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FOREWORD

The **International Bulletin on Atomic and Molecular Data for Fusion** ("the Bulletin") is prepared by the Atomic and Molecular (A+M) Data Unit of the **International Atomic Energy Agency** (IAEA) and published and distributed free of charge by the IAEA to assist in the development of fusion research and technology. The Bulletin is a complement to the A+M Data Unit bibliographical database, AMBDAS, which is freely available on-line at **http://www-amdis.iaea.org/AMBDAS/**. Each issue of the Bulletin contains additions to AMBDAS since the previous issue.

The Bulletin and AMBDAS provide an indexed guide to papers that contain data for atomic structure, spectral lines and intensities (or transition probabilities), atomic and molecular collisions and particle-surface interactions. In recent years the references and indices included in the Bulletin have been provided by atomic data centres at two institutes: Oak Ridge National Laboratory, Oak Ridge, USA, for atomic and molecular collisions and particle-surface interactions, and the National Institute of Standards and Technology (NIST), Gaithersburg, USA, for structure and spectra. However, the present edition of the Bulletin contains only data on atomic structure, spectra and transition probabilities. These data were provided by NIST and cover mainly publications that appeared in the years 2010-2012. The editors wish to resume publication of collision data and particle-surface interaction data in the future.

Information in this Bulletin is presented in four chapters. The Atomic and Molecular Data Information System (AMDIS) of the International Atomic Energy Agency is briefly presented in Chapter 1. The indexed papers are listed separately for structure and spectra, atomic and molecular collisions, and particle-surface interactions in Part 2. The structure and spectra index lines are grouped by process. The first column gives the reactants, the second one the process and then the character of the data contained (Th for theoretical, Ex for experimental, and E/T for both experimental and theoretical). The number in the last column is the reference number in Part 3 of the Bulletin. The atomic and molecular index lines are grouped by one collision partner (photon, electron or heavy particle). The first column gives the reactants, the second column gives the process, the third column gives the energy range with the appropriate units, and the last two columns are the same as in the structure and spectra index lines. The particle-surface interactions index lines are grouped by process. The first column gives the reactants, the second the energy range with the appropriate units, and the last two columns are the same as in the previous cases. Part 3 contains the bibliographic data for both the indexed and non-indexed references. Under each entry in Part 3 index lines (if any) refer back to the classified entries in Part 2. Part 4 contains the Author Index with references to the bibliographic entries contained in Part 3.

Contributions are solicited on data generation work in progress and on new data in the course of publication. Contributions should include an explanation of their applicability to fusion research and should be sent to:

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Vienna, January 2013 The Editors

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NEWS ON THE ATOMIC AND MOLECULAR DATA UNIT

Coordinated Reasearch Projects (CRP) are the main tool by which the Atomic and Molecular Data Unit collects and evaluates data for the establishment of recommended numerical databases for use in fusion energy research. A CRP is a three to five-year joint project involving approximately 7 to 12 laboratories, research teams or institutes performing coordinated research to achieve a well defined goal (establishment of a particular database, data generation, compilation and assessment for specific types of A+M collision processes, or classes of such processes, etc.). Two CRPs have recently concluded. The CRP on "Data for surface composition dynamics relevant to erosion processes" held its third and final Research Coordination Meeting (RCM) in September 2010 and the CRP on "Characterization of Size, Composition and Origins of Dust in Fusion Devices" held its second RCM in June 2010 and the final one in December 2011. The CRP on "Spectroscopic and Collisional Data for Tungsten from 1 eV to 20 keV" held the first and the second RCMs in December 2010 and August 2012, respectively. The CRP on "Light Element Atom, Molecule and Radical Behaviour in the Divertor and Edge Plasma Regions" held its second RCM in May 2011. The CRP on "Atomic and Molecular Data for State-Resolved Modelling of Hydrogen and Helium and Their Isotopes in Fusion Plasma" held its first RCM in August 2011 and the CRP on "Data for Erosion and Tritium Retention in Beryllium Plasma-Facing Materials" held the first RCM in September 2012. More information about the CRPs is available on the A+M Data Unit web site at **http://www-amdis.iaea.org/CRP/**.

The 21st meeting of the Data Centre Network on Technical Aspects of Atomic and Molecular Data Processing and Exchange was held on 7-9 September 2011. The Data Centre Network (DCN) includes about 12 national data centres for collection, critical assessment (evaluation) and partly for generation of atomic and molecular (A+M), particle surface interaction (PSI) and bulk material properties data for fusion and other applications. More information on the DCN activities is available on the A+M Data Unit web site at **http://www-amdis.iaea.org/DCN/**.

Upon the recommendations of the Data Centre Network,the A+M Data Unit organized a series of meetings to address the needs of critical assement of atomic, molecular and particle-surface interaction data. To encourage broad collaboration and involvement from atomic and molecular physics community internationally on the issue of data evaluation, meetings were held at the National Institute for Fusion Science (NIFS, Toki) in Japan and the National Fusion Research Institute (NFRI, Daejeon) in Korea. More than 25 experts from 10 member states participated in discussions on critical aspects of data evaluation procedures at the joint IAEA-NFRI Technical Meeting on "Data Evaluation for Atomic, Molecular and Plasma Material Interaction Processes in Fusion" and a proceeding book will be published in early 2013. More information on the data evaluation activities is available on the A+M Data Unit web site at **http://www-amdis.iaea.org/DCN/Evaluation**.

Version 1.0 of the "XML Schema for Atoms, Molecules and Solids" (XSAMS) was specified in 2012 by the XSAMS Steering Committee in collaboration with the Virtual Atomic and Molecular Data Centre (VAMDC, **http://www.vamdc.eu**). The goal of the XSAMS project is to develop an XML-based standard for exchange of atomic, molecular and particle-surface interaction data through which both the static properties of the AM/PSI constituents and the interactions among them are described in a consistent and well-structured way. The work started in the A+M Data Unit in collaboration with NIST, ORNL and Observatoire Paris-Meudon. Since 2009, the work has expanded greatly due to the adoption and further development of XSAMS by the VAMDC Consortium, which has supported many implementations and associated database infrastructure. More information is posted on the A+M Data Unit web site at **http://www-amdis.iaea.org/XML/**

A wiki-style knowledge base on atomic, molecular and plasma-surface interaction data for fusion is being developed. The aim is to provide basic facts and background information for both atomic, molecular, plasma-surface interaction data producer communities and the fusion data user community. Contents from the IAEA publications, technical reports and meeting presentations are presented. The knowledge base is available on the A+M Data Unit web site at **http://www-amdis.iaea.org/w/**

The A+M Data Unit organized a joint ICTP-IAEA workshop on "Fusion Plasma Modelling Using Atomic and Molecular Data" on 23-27 January, 2012 at ICTP in Trieste, Italy. The purpose of the workshop is to train potential new researchers in fusion energy in the basics of atomic, molecular and plasma-material interaction data. Additional information may be found on the A+M Data Unit web site at **http://www-amdis.iaea.org/Workshops/ICTP2012/**.

The A+M Data Unit cooperated to host the 7th Non-Local Thermodynamic Equilibrium (NLTE) Code Comparison Workshop on 5-9 December, 2011 and the 1st Spectral Line Shapes in Plasmas (SLSP) Code Comparison Workshop on 2-5 April, 2012 in Vienna. The workshops invited developers of NLTE kinetics codes and SLSP codes to compare results and understand physics assumptions behind differences among codes. More details may be found on the workshop web pages at **http://nlte.nist.gov/NLTE7/** and **http://plasma-gate.weizmann.ac.il/slsp/**.

CONTENTS

Chapter 1
The Atomic and Molecular Data Information System

AMDIS is the **A**tomic and **M**olecular **D**ata **I**nformation **S**ystem of the International Atomic Energy Agency, established and maintained by the Atomic and Molecular Data Unit, Nuclear Data Section. AMDIS contains two main parts: AMBDAS, a bibliographic database for atomic and molecular data for fusion research; ALADDIN, a numerical database of recommended and evaluated atomic, molecular and plasma-surface interaction data.

AMBDAS, **A**tomic and **M**olecular **B**ibliographic **D**ata **S**ystem, is an on-line bibliographic database **http://www-amdis.iaea.org/AMBDAS** that contains more than 47,000 bibliographic entries with atomic, molecular and plasma-surface interaction data of interest to fusion research, and dating back to 1918. Entries may be retrieved by author, process, reactants, type of reference, year of publication and data source (theoretical or experimental). The interface is a web-based application, easy to use with no required registration. AMBDAS data are regularly published in the International Bulletin on Atomic and Molecular Data for Fusion.

ALADDIN is the online numerical database of the Atomic and Molecular Data Unit of the IAEA **http://www-amdis.iaea.org/ALADDIN**, providing atomic, molecular and plasma-material interaction data of interest to fusion research. ALADDIN provides two similar interfaces, one for collisional data and one for particle surface interactions. An ALADDIN entry consists of searchable labels that characterize the process and reactants; the source of the data, date, laboratory or data centre, and reference; comment lines and the numerical data. When possible all requested data are displayed in the same units to permit easy comparison. A unit conversion tool is available and all results can be displayed in tabular and graphical mode.

Chapter 2
Process Index

2.1 Structure and Spectra

He	Energy Levels, Wavelengths	E/T	774
He	Trans. prob., Oscill. Strengths	E/T	830
Li	Energy Levels, Wavelengths	Exp	24
Li	Energy Levels, Wavelengths	Th	28
Li	Energy Levels, Wavelengths	Exp	34
Li	Energy Levels, Wavelengths	Th	39
Li	Energy Levels, Wavelengths	Th	45
Li	Energy Levels, Wavelengths	Th	47
Li	Energy Levels, Wavelengths	Exp	51
Li-F^{-}	Energy Levels, Wavelengths	Th	54
Li	Energy Levels, Wavelengths	Th	68
Li^{2+}	Energy Levels, Wavelengths	Th	83
Li	Energy Levels, Wavelengths	Exp	123
Li	Energy Levels, Wavelengths	Exp	124
Li	Energy Levels, Wavelengths	Th	132
Li	Energy Levels, Wavelengths	E/T	144
Li^{0+-2+}	Energy Levels, Wavelengths	E/T	144
Li	Energy Levels, Wavelengths	Exp	145
Li^{+}	Energy Levels, Wavelengths	Exp	145
Li	Energy Levels, Wavelengths	Th	157
Li	Energy Levels, Wavelengths	Th	164
Li^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Li	Energy Levels, Wavelengths	E/T	172
Li-Am	Energy Levels, Wavelengths	E/T	173
Li-Am	Energy Levels, Wavelengths	Exp	174
Li-Am	Energy Levels, Wavelengths	Exp	175
Li	Trans. prob., Oscill. Strengths	Th	259
Li	Energy Levels, Wavelengths	E/T	291
Li	Energy Levels, Wavelengths	Th	292
Li	Energy Levels, Wavelengths	Exp	300
Li^{+}	Energy Levels, Wavelengths	Th	316
Li	Energy Levels, Wavelengths	Exp	317
Li	Energy Levels, Wavelengths	Exp	323
Li^{-}	Energy Levels, Wavelengths	Th	333
Li	Energy Levels, Wavelengths	E/T	345
Li	Energy Levels, Wavelengths	Th	360
Li	Energy Levels, Wavelengths	Th	401
Li	Energy Levels, Wavelengths	Th	402
Li^{0+-1+}	Energy Levels, Wavelengths	Th	411
Li	Energy Levels, Wavelengths	Th	413
Li^{+}	Energy Levels, Wavelengths	Th	413
Li	Energy Levels, Wavelengths	Th	425
Li^{+}	Energy Levels, Wavelengths	Th	428
Li	Energy Levels, Wavelengths	Exp	434
Li^{0+-1+}	Energy Levels, Wavelengths	Th	451
Li	Energy Levels, Wavelengths	Th	466
Li	Energy Levels, Wavelengths	Th	471
Li^{0+-1+}	Energy Levels, Wavelengths	Th	471
Li	Energy Levels, Wavelengths	Th	494
Li	Energy Levels, Wavelengths	Exp	502
Li	Energy Levels, Wavelengths	E/T	507
Li^{+}	Energy Levels, Wavelengths	E/T	507
Li	Energy Levels, Wavelengths	Th	605
Li	Energy Levels, Wavelengths	Exp	645
Li	Energy Levels, Wavelengths	Th	662
Li	Energy Levels, Wavelengths	Th	663
Li	Energy Levels, Wavelengths	Th	715
Li	Energy Levels, Wavelengths	Th	720
Li	Energy Levels, Wavelengths	Th	745

$\mathbf{C}^{2+}$	Energy Levels, Wavelengths	Exp	74
$\mathbf{C}^{5+}$	Energy Levels, Wavelengths	Th	83
$\mathbf{C}^{3+}$	Energy Levels, Wavelengths	Exp	140
$\mathbf{C}^{5+}$	Energy Levels, Wavelengths	Exp	146
$\mathbf{C}^{0+-3+}$	Energy Levels, Wavelengths	E/T	170
$\mathbf{C}^{0+-3+}$	Energy Levels, Wavelengths	E/T	172
$\mathbf{C}^{+}$	Trans. prob., Oscill. Strengths	Th	197
$\mathbf{C}^{2+}$	Trans. prob., Oscill. Strengths	Th	234
$\mathbf{C}^{+}$	Energy Levels, Wavelengths	Exp	282
$\mathbf{C}^{+}$	Energy Levels, Wavelengths	E/T	290
$\mathbf{C}^{+-2+}$	Energy Levels, Wavelengths	Exp	307
$\mathbf{C}^{4+}$	Energy Levels, Wavelengths	Th	316
$^{11}\mathbf{C}^{-}$	Energy Levels, Wavelengths	Th	331
$^{13}\mathbf{C}^{-}$	Energy Levels, Wavelengths	Th	331
$\mathbf{C}^{-}$	Energy Levels, Wavelengths	Th	331
$\mathbf{C}$	Energy Levels, Wavelengths	Th	331
$\mathbf{C}^{3+}$	Energy Levels, Wavelengths	Th	336
$\mathbf{C}^{4+}$	Energy Levels, Wavelengths	Th	365
$\mathbf{C}^{3+}$	Energy Levels, Wavelengths	Th	411
$\mathbf{C}^{2+}$	Energy Levels, Wavelengths	Exp	454
$\mathbf{C}^{4+-5+}$	Energy Levels, Wavelengths	Exp	455
$\mathbf{C}^{3+-5+}$	Energy Levels, Wavelengths	Exp	456
$\mathbf{C}^{4+-5+}$	Energy Levels, Wavelengths	Exp	459
$\mathbf{C}^{4+-5+}$	Energy Levels, Wavelengths	E/T	460
$\mathbf{C}$	Energy Levels, Wavelengths	Exp	462
$\mathbf{C}^{2+}$	Energy Levels, Wavelengths	Exp	469
$\mathbf{C}^{3+}$	Energy Levels, Wavelengths	Exp	476
$\mathbf{C}^{+-4+}$	Energy Levels, Wavelengths	Exp	479
$\mathbf{C}$	Energy Levels, Wavelengths	Exp	483
$\mathbf{C}^{2+-4+}$	Energy Levels, Wavelengths	E/T	507
$\mathbf{C}^{-}$	Trans. prob., Oscill. Strengths	Th	537
$\mathbf{C}$	Trans. prob., Oscill. Strengths	Th	537
$\mathbf{C}^{4+}$	Trans. prob., Oscill. Strengths	Th	575
$\mathbf{C}^{5+}$	Energy Levels, Wavelengths	Th	617
$\mathbf{C}^{4+}$	Energy Levels, Wavelengths	Th	647
$\mathbf{C}^{4+}$	Energy Levels, Wavelengths	Th	660
$\mathbf{C}^{3+}$	Energy Levels, Wavelengths	Th	662
$\mathbf{C}^{-}$	Energy Levels, Wavelengths	Th	670
$\mathbf{C}^{5+}$	Energy Levels, Wavelengths	Th	688
$\mathbf{C}^{2+}$	Energy Levels, Wavelengths	Exp	695
$\mathbf{C}^{+}$	Energy Levels, Wavelengths	Th	702
$\mathbf{C}^{5+}$	Energy Levels, Wavelengths	Exp	731
$\mathbf{C}^{2+}$	Energy Levels, Wavelengths	Th	740
$\mathbf{C}^{4+}$	Energy Levels, Wavelengths	Th	744
$\mathbf{C}^{4+}$	Energy Levels, Wavelengths	Th	753
$\mathbf{C}$	Energy Levels, Wavelengths	Exp	755
$\mathbf{C}^{+-3+}$	Energy Levels, Wavelengths	Exp	772
$\mathbf{C}^{4+-5+}$	Energy Levels, Wavelengths	Exp	773
$\mathbf{C}^{3+}$	Trans. prob., Oscill. Strengths	Th	822
$\mathbf{C}^{4+}$	Trans. prob., Oscill. Strengths	Th	824
$\mathbf{C}^{3+}$	Trans. prob., Oscill. Strengths	Th	834
$\mathbf{C}^{4+}$	Trans. prob., Oscill. Strengths	Th	876
$\mathbf{N}^{2+}$	Energy Levels, Wavelengths	Th	1
$\mathbf{N}^{4+}$	Energy Levels, Wavelengths	Th	21
$\mathbf{N}$	Energy Levels, Wavelengths	E/T	65
$\mathbf{N}^{3+}$	Energy Levels, Wavelengths	Exp	74
$\mathbf{N}$	Energy Levels, Wavelengths	Th	82
$\mathbf{N}^{+}$	Energy Levels, Wavelengths	Th	88
$\mathbf{N}^{3+}$	Energy Levels, Wavelengths	Exp	95

$\mathbf{O}^{+}$	Energy Levels, Wavelengths	Exp	282
$\mathbf{O}^{3+}$	Energy Levels, Wavelengths	Exp	282
$\mathbf{O}^{3+-4+}$	Energy Levels, Wavelengths	Exp	282
$\mathbf{O}^{7+}$	Energy Levels, Wavelengths	Exp	297
$\mathbf{O}^{+-3+}$	Energy Levels, Wavelengths	Exp	307
$\mathbf{O}^{6+}$	Energy Levels, Wavelengths	Th	316
$\mathbf{O}^{-}$	Energy Levels, Wavelengths	Exp	337
$\mathbf{O}^{4+}$	Energy Levels, Wavelengths	Th	410
O	Energy Levels, Wavelengths	Exp	427
O	Energy Levels, Wavelengths	Exp	431
$\mathbf{O}^{+}$	Energy Levels, Wavelengths	Exp	440
$\mathbf{O}^{5+}$	Energy Levels, Wavelengths	Exp	454
$\mathbf{O}^{4+-7+}$	Energy Levels, Wavelengths	Exp	455
$\mathbf{O}^{5+-7+}$	Energy Levels, Wavelengths	Exp	456
$\mathbf{O}^{6+-7+}$	Energy Levels, Wavelengths	Exp	459
$\mathbf{O}^{6+-7+}$	Energy Levels, Wavelengths	E/T	460
$\mathbf{O}^{5+}$	Energy Levels, Wavelengths	Exp	464
$\mathbf{O}^{+-4+}$	Energy Levels, Wavelengths	Exp	469
$\mathbf{O}^{4+}$	Energy Levels, Wavelengths	E/T	472
$\mathbf{O}^{4+-5+}$	Energy Levels, Wavelengths	Exp	476
$\mathbf{O}^{4+-5+}$	Energy Levels, Wavelengths	Exp	477
$\mathbf{O}^{4+-5+}$	Energy Levels, Wavelengths	Exp	478
$\mathbf{O}^{0+-5+}$	Energy Levels, Wavelengths	Exp	479
$\mathbf{O}^{2+}$	Energy Levels, Wavelengths	Exp	482
O	Energy Levels, Wavelengths	Th	495
$\mathbf{O}^{5+}$	Energy Levels, Wavelengths	Exp	498
$\mathbf{O}^{4+-6+}$	Energy Levels, Wavelengths	E/T	507
$\mathbf{O}^{2+}$	Trans. prob., Oscill. Strengths	Th	510
O	Trans. prob., Oscill. Strengths	Th	564
$\mathbf{O}^{7+}$	Trans. prob., Oscill. Strengths	Th	573
$\mathbf{O}^{5+}$	Energy Levels, Wavelengths	Exp	588
$\mathbf{O}^{4+-5+}$	Energy Levels, Wavelengths	Exp	595
$\mathbf{O}^{5+}$	Energy Levels, Wavelengths	Th	662
$\mathbf{O}^{-}$	Energy Levels, Wavelengths	Th	670
$\mathbf{O}^{+-4+}$	Energy Levels, Wavelengths	Exp	695
$\mathbf{O}^{7+}$	Energy Levels, Wavelengths	Exp	731
$\mathbf{O}^{6+-7+}$	Energy Levels, Wavelengths	Exp	775
$\mathbf{O}^{+}$	Trans. prob., Oscill. Strengths	Th	820
$\mathbf{O}^{5+}$	Trans. prob., Oscill. Strengths	Th	834
$\mathbf{O}^{5+}$	Trans. prob., Oscill. Strengths	Th	872
$\mathbf{F}^{6+}$	Energy Levels, Wavelengths	Th	21
$\mathbf{F}^{3+}$	Energy Levels, Wavelengths	Th	88
F	Energy Levels, Wavelengths	Exp	168
$\mathbf{F}^{+}$	Energy Levels, Wavelengths	Exp	168
$\mathbf{F}^{0+-2+}$	Energy Levels, Wavelengths	E/T	170
$\mathbf{F}^{6+}$	Trans. prob., Oscill. Strengths	Th	193
$\mathbf{F}^{6+}$	Trans. prob., Oscill. Strengths	Th	207
$\mathbf{F}^{3+}$	Trans. prob., Oscill. Strengths	Th	225
$\mathbf{F}^{5+}$	Trans. prob., Oscill. Strengths	Th	234
$\mathbf{F}^{7+}$	Trans. prob., Oscill. Strengths	Th	250
$\mathbf{F}^{+-2+}$	Energy Levels, Wavelengths	Exp	307
$\mathbf{F}^{7+}$	Energy Levels, Wavelengths	E/T	507
$\mathbf{F}^{7+}$	Trans. prob., Oscill. Strengths	E/T	531
$\mathbf{F}^{8+}$	Trans. prob., Oscill. Strengths	Th	573
$\mathbf{F}^{-}$	Energy Levels, Wavelengths	Th	670
$\mathbf{F}^{6+-8+}$	Energy Levels, Wavelengths	Exp	690
$\mathbf{F}^{3+}$	Energy Levels, Wavelengths	E/T	705
$\mathbf{F}^{3+}$	Energy Levels, Wavelengths	E/T	725
F	Trans. prob., Oscill. Strengths	E/T	800

Ne	Energy Levels, Wavelengths	Th	28
Ne^{7+}	Energy Levels, Wavelengths	Th	39
Ne	Energy Levels, Wavelengths	Th	41
Ne^{7+}	Energy Levels, Wavelengths	Th	49
Ne	Energy Levels, Wavelengths	Exp	77
Ne^{4+}	Energy Levels, Wavelengths	Th	88
Ne^{0+-2+}	Energy Levels, Wavelengths	E/T	102
Ne^{+}	Energy Levels, Wavelengths	E/T	102
Ne^{4+-5+}	Energy Levels, Wavelengths	Exp	110
Ne^{3+-6+}	Energy Levels, Wavelengths	Exp	116
Ne	Energy Levels, Wavelengths	Exp	168
Ne^{+}	Energy Levels, Wavelengths	Exp	168
Ne^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Ne^{0+-4+}	Energy Levels, Wavelengths	E/T	172
Ne^{8+}	Trans. prob., Oscill. Strengths	Th	192
Ne^{7+}	Trans. prob., Oscill. Strengths	Th	207
Ne^{4+}	Trans. prob., Oscill. Strengths	Th	225
Ne	Trans. prob., Oscill. Strengths	E/T	233
Ne^{7+}	Trans. prob., Oscill. Strengths	Th	253
Ne^{2+-4+}	Energy Levels, Wavelengths	Exp	282
Ne^{6+}	Energy Levels, Wavelengths	Th	305
Ne	Energy Levels, Wavelengths	Exp	307
Ne^{7+}	Energy Levels, Wavelengths	Th	316
Ne	Energy Levels, Wavelengths	Th	342
Ne^{6+}	Energy Levels, Wavelengths	Th	353
Ne	Energy Levels, Wavelengths	Th	390
Ne	Energy Levels, Wavelengths	Th	394
Ne	Energy Levels, Wavelengths	Th	402
Ne^{7+}	Energy Levels, Wavelengths	Th	402
Ne^{7+}	Energy Levels, Wavelengths	Th	411
Ne	Energy Levels, Wavelengths	Th	447
Ne^{4+}	Energy Levels, Wavelengths	Exp	453
Ne^{6+-7+}	Energy Levels, Wavelengths	Exp	453
Ne^{8+}	Energy Levels, Wavelengths	Exp	454
Ne^{4+-8+}	Energy Levels, Wavelengths	Exp	455
Ne^{8+-9+}	Energy Levels, Wavelengths	Exp	456
Ne^{8+}	Energy Levels, Wavelengths	Exp	459
Ne^{8+-9+}	Energy Levels, Wavelengths	E/T	460
Ne^{+-2+}	Energy Levels, Wavelengths	Exp	463
Ne^{4+-5+}	Energy Levels, Wavelengths	Exp	463
Ne^{3+-6+}	Energy Levels, Wavelengths	Exp	469
Ne^{3+}	Energy Levels, Wavelengths	Exp	476
Ne^{+-3+}	Energy Levels, Wavelengths	Exp	479
Ne^{0+-7+}	Energy Levels, Wavelengths	Exp	484
Ne^{3+}	Energy Levels, Wavelengths	Exp	484
Ne^{4+}	Energy Levels, Wavelengths	Exp	484
Ne^{4+}	Energy Levels, Wavelengths	Exp	500
Ne^{6+-8+}	Energy Levels, Wavelengths	E/T	507
Ne^{6+}	Trans. prob., Oscill. Strengths	Th	528
Ne^{+}	Trans. prob., Oscill. Strengths	Th	549
Ne^{9+}	Trans. prob., Oscill. Strengths	Th	573
Ne	Energy Levels, Wavelengths	Exp	604
Ne^{2+-4+}	Energy Levels, Wavelengths	E/T	653
Ne^{3+}	Energy Levels, Wavelengths	E/T	653
Ne^{7+}	Energy Levels, Wavelengths	Th	662
Ne^{+}	Energy Levels, Wavelengths	Th	665
Ne^{6+}	Energy Levels, Wavelengths	Th	668
Ne	Energy Levels, Wavelengths	Th	677
Ne^{3+-5+}	Energy Levels, Wavelengths	Exp	695

Ne^{4+}	Energy Levels, Wavelengths	E/T	705
Ne	Energy Levels, Wavelengths	Exp	723
Ne^{4+}	Energy Levels, Wavelengths	E/T	725
Ne	Energy Levels, Wavelengths	Th	742
Ne	Energy Levels, Wavelengths	Exp	761
Ne	Energy Levels, Wavelengths	Exp	763
Ne^{7+-9+}	Energy Levels, Wavelengths	Exp	775
Ne^{6+}	Trans. prob., Oscill. Strengths	Th	803
Ne	Trans. prob., Oscill. Strengths	Th	810
Ne	Trans. prob., Oscill. Strengths	E/T	830
Ne^{7+}	Trans. prob., Oscill. Strengths	Th	834
Ne	Trans. prob., Oscill. Strengths	Th	841
Na	Energy Levels, Wavelengths	Exp	15
Na	Energy Levels, Wavelengths	Exp	20
Na	Energy Levels, Wavelengths	Th	28
Na	Energy Levels, Wavelengths	Th	45
Na^{4+-7+}	Energy Levels, Wavelengths	Exp	116
Na	Energy Levels, Wavelengths	Th	157
Na	Energy Levels, Wavelengths	Th	163
Na	Energy Levels, Wavelengths	Exp	168
Na^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Na	Energy Levels, Wavelengths	E/T	172
Na^{3+}	Energy Levels, Wavelengths	E/T	172
Na^{8+}	Trans. prob., Oscill. Strengths	Th	207
Na^{9+}	Trans. prob., Oscill. Strengths	Th	250
Na^{+}	Energy Levels, Wavelengths	E/T	271
Na^{3+-5+}	Energy Levels, Wavelengths	Exp	282
Na	Energy Levels, Wavelengths	Th	292
Na^{9+}	Energy Levels, Wavelengths	Exp	307
Na^{9+}	Energy Levels, Wavelengths	Th	316
Na^{-}	Energy Levels, Wavelengths	Th	333
Na	Energy Levels, Wavelengths	Th	360
Na	Energy Levels, Wavelengths	Th	402
Na	Energy Levels, Wavelengths	Th	411
Na^{0+-1+}	Energy Levels, Wavelengths	Th	451
Na^{9+-10+}	Energy Levels, Wavelengths	Exp	456
Na^{9+-10+}	Energy Levels, Wavelengths	E/T	460
Na	Energy Levels, Wavelengths	Exp	462
Na^{5+-6+}	Energy Levels, Wavelengths	Exp	463
Na^{4+}	Energy Levels, Wavelengths	Exp	479
Na	Energy Levels, Wavelengths	Exp	483
Na^{10+}	Trans. prob., Oscill. Strengths	Th	573
Na^{9+}	Energy Levels, Wavelengths	Exp	595
Na	Energy Levels, Wavelengths	Th	663
Na^{+}	Energy Levels, Wavelengths	Th	677
Na^{5+}	Energy Levels, Wavelengths	E/T	705
Na-Al	Energy Levels, Wavelengths	Exp	755
Na^{9+}	Energy Levels, Wavelengths	Exp	775
Mg^{+}	Energy Levels, Wavelengths	Exp	4
Mg	Energy Levels, Wavelengths	Exp	15
Mg	Energy Levels, Wavelengths	Exp	20
Mg	Energy Levels, Wavelengths	Th	28
Mg	Energy Levels, Wavelengths	Exp	31
Mg^{2+}	Energy Levels, Wavelengths	E/T	37
Mg^{+}	Energy Levels, Wavelengths	Th	48
Mg	Energy Levels, Wavelengths	Th	84
Mg^{+}	Energy Levels, Wavelengths	Th	98
Mg^{4+-6+}	Energy Levels, Wavelengths	Exp	110
Mg^{4+-8+}	Energy Levels, Wavelengths	Exp	116

Mg^{2+}	Energy Levels, Wavelengths	E/T	129
Mg^{-}	Energy Levels, Wavelengths	Th	158
Mg	Energy Levels, Wavelengths	Th	158
Mg^{+}	Energy Levels, Wavelengths	Th	163
Mg	Energy Levels, Wavelengths	Exp	168
Mg^{+}	Energy Levels, Wavelengths	Exp	168
Mg^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Mg	Energy Levels, Wavelengths	E/T	172
Mg^{+}	Energy Levels, Wavelengths	E/T	172
Mg^{4+}	Energy Levels, Wavelengths	E/T	172
Mg^{+}	Trans. prob., Oscill. Strengths	Exp	180
Mg	Trans. prob., Oscill. Strengths	Th	218
Mg	Trans. prob., Oscill. Strengths	Th	262
Mg^{4+-5+}	Energy Levels, Wavelengths	Exp	282
Mg^{+}	Energy Levels, Wavelengths	Th	292
Mg^{10+}	Energy Levels, Wavelengths	Th	316
Mg^{0+-1+}	Energy Levels, Wavelengths	Exp	380
Mg^{6+}	Energy Levels, Wavelengths	Exp	389
Mg	Energy Levels, Wavelengths	Th	390
Mg	Energy Levels, Wavelengths	Th	402
Mg^{+}	Energy Levels, Wavelengths	Th	411
Mg^{+}	Energy Levels, Wavelengths	Exp	421
Mg^{11+}	Energy Levels, Wavelengths	Exp	448
Mg	Energy Levels, Wavelengths	Th	451
Mg^{2+}	Energy Levels, Wavelengths	Th	451
Mg^{9+}	Energy Levels, Wavelengths	Exp	454
Mg^{4+-9+}	Energy Levels, Wavelengths	Exp	455
Mg^{8+-11+}	Energy Levels, Wavelengths	Exp	456
Mg^{9+-11+}	Energy Levels, Wavelengths	Exp	459
Mg^{9+-11+}	Energy Levels, Wavelengths	E/T	460
Mg	Energy Levels, Wavelengths	Exp	462
Mg^{4+}	Energy Levels, Wavelengths	Exp	463
Mg^{6+-7+}	Energy Levels, Wavelengths	Exp	463
Mg^{3+-9+}	Energy Levels, Wavelengths	Exp	469
Mg^{9+}	Energy Levels, Wavelengths	Exp	477
Mg^{9+}	Energy Levels, Wavelengths	Exp	478
Mg^{0+-1+}	Energy Levels, Wavelengths	Exp	479
Mg	Energy Levels, Wavelengths	Exp	483
Mg^{4+}	Energy Levels, Wavelengths	Exp	500
Mg^{+}	Trans. prob., Oscill. Strengths	Th	520
Mg	Trans. prob., Oscill. Strengths	Exp	521
Mg	Trans. prob., Oscill. Strengths	E/T	531
Mg^{+}	Trans. prob., Oscill. Strengths	Th	535
Mg^{10+}	Trans. prob., Oscill. Strengths	Th	575
Mg^{+}	Trans. prob., Oscill. Strengths	Exp	576
Mg^{6+-7+}	Energy Levels, Wavelengths	Exp	587
Mg^{5+-6+}	Energy Levels, Wavelengths	Exp	595
Mg^{9+}	Energy Levels, Wavelengths	Exp	595
Mg^{0+-1+}	Energy Levels, Wavelengths	Exp	599
Mg^{-}	Energy Levels, Wavelengths	Th	600
Mg	Energy Levels, Wavelengths	Th	642
Mg^{8+}	Energy Levels, Wavelengths	Th	648
Mg^{10+}	Energy Levels, Wavelengths	Th	652
Mg^{2+-10+}	Energy Levels, Wavelengths	Th	657
Mg^{9+-11+}	Energy Levels, Wavelengths	Exp	690
Mg^{6+}	Energy Levels, Wavelengths	Exp	695
Mg^{8+-9+}	Energy Levels, Wavelengths	Exp	695
Mg^{6+}	Energy Levels, Wavelengths	E/T	705
Mg	Energy Levels, Wavelengths	Exp	733

Mg^{0+-1+}	Energy Levels, Wavelengths	Exp	772
Mg^{9+-11+}	Energy Levels, Wavelengths	Exp	775
Mg^{+}	Trans. prob., Oscill. Strengths	Th	792
Mg^{10+}	Trans. prob., Oscill. Strengths	Th	828
Mg^{2+-10+}	Trans. prob., Oscill. Strengths	Th	832
Al^{3+}	Energy Levels, Wavelengths	Th	17
Al	Energy Levels, Wavelengths	Exp	20
Al^{+}	Energy Levels, Wavelengths	Th	84
Al^{4+}	Energy Levels, Wavelengths	Exp	110
Al^{6+-8+}	Energy Levels, Wavelengths	Exp	110
Al^{4+}	Energy Levels, Wavelengths	Exp	116
Al^{6+-9+}	Energy Levels, Wavelengths	Exp	116
Al^{+}	Energy Levels, Wavelengths	Exp	159
Al	Energy Levels, Wavelengths	Exp	168
Al^{0+-2+}	Energy Levels, Wavelengths	E/T	170
Al^{0+-2+}	Energy Levels, Wavelengths	E/T	172
Al	Energy Levels, Wavelengths	Exp	177
Al^{+}	Trans. prob., Oscill. Strengths	Th	217
Al^{+}	Trans. prob., Oscill. Strengths	Th	218
Al^{9+}	Trans. prob., Oscill. Strengths	Th	261
Al^{3+-10+}	Energy Levels, Wavelengths	Exp	275
Al^{2+-11+}	Energy Levels, Wavelengths	Th	281
Al^{5+}	Energy Levels, Wavelengths	Exp	282
Al^{+-2+}	Energy Levels, Wavelengths	Exp	307
Al^{11+}	Energy Levels, Wavelengths	Th	316
Al^{8+}	Energy Levels, Wavelengths	Th	348
Al^{11+}	Energy Levels, Wavelengths	Th	365
Al	Energy Levels, Wavelengths	Th	395
Al	Energy Levels, Wavelengths	Th	400
Al	Energy Levels, Wavelengths	Th	402
Al^{2+}	Energy Levels, Wavelengths	Th	411
Al^{9+-11+}	Energy Levels, Wavelengths	Exp	423
Al^{7+}	Energy Levels, Wavelengths	Exp	441
Al^{9+-11+}	Energy Levels, Wavelengths	Exp	442
Al^{10+}	Energy Levels, Wavelengths	Exp	454
Al$^{10+-12+}$	Energy Levels, Wavelengths	E/T	460
Al	Energy Levels, Wavelengths	Exp	462
Al^{4+-5+}	Energy Levels, Wavelengths	Exp	463
Al^{6+-7+}	Energy Levels, Wavelengths	Exp	469
Al^{9+-10+}	Energy Levels, Wavelengths	Exp	469
Al^{5+}	Energy Levels, Wavelengths	Exp	476
Al^{10+}	Energy Levels, Wavelengths	Exp	477
Al^{10+}	Energy Levels, Wavelengths	Exp	478
Al	Energy Levels, Wavelengths	Exp	483
Al^{4+-11+}	Trans. prob., Oscill. Strengths	Th	514
Al^{+}	Trans. prob., Oscill. Strengths	E/T	531
Al^{11+}	Trans. prob., Oscill. Strengths	E/T	531
Al^{8+}	Trans. prob., Oscill. Strengths	Th	546
Al^{8+}	Energy Levels, Wavelengths	Exp	595
Al^{11+}	Energy Levels, Wavelengths	Th	652
Al-Cl	Energy Levels, Wavelengths	Th	656
Al^{11+}	Energy Levels, Wavelengths	Th	660
Al$^{10+-12+}$	Energy Levels, Wavelengths	Th	664
Al^{-}	Energy Levels, Wavelengths	Th	670
Al^{+}	Energy Levels, Wavelengths	E/T	671
Al^{12+}	Energy Levels, Wavelengths	Th	688
Al^{9+-10+}	Energy Levels, Wavelengths	Exp	695
Al^{7+}	Energy Levels, Wavelengths	E/T	705
Al^{11+}	Energy Levels, Wavelengths	Th	744

Al^{2+}	Energy Levels, Wavelengths	Exp	772
Al$^{11+-12+}$	Energy Levels, Wavelengths	Exp	775
Al^{10+}	Trans. prob., Oscill. Strengths	Th	822
Al^{11+}	Trans. prob., Oscill. Strengths	Th	828
Al^{+}	Trans. prob., Oscill. Strengths	Th	837
Al^{11+}	Trans. prob., Oscill. Strengths	Th	876
Si^{9+}	Energy Levels, Wavelengths	Exp	2
Si	Energy Levels, Wavelengths	Exp	20
Si	Energy Levels, Wavelengths	Exp	76
Si^{2+}	Energy Levels, Wavelengths	Th	84
Si^{5+-9+}	Energy Levels, Wavelengths	Exp	110
Si^{3+-4+}	Energy Levels, Wavelengths	Exp	116
Si^{6+-8+}	Energy Levels, Wavelengths	Exp	116
Si	Energy Levels, Wavelengths	Exp	168
Si^{0+-3+}	Energy Levels, Wavelengths	E/T	170
Si^{0+-3+}	Energy Levels, Wavelengths	E/T	172
Si^{12+}	Trans. prob., Oscill. Strengths	Th	192
Si^{+}	Trans. prob., Oscill. Strengths	Exp	210
Si^{+-3+}	Trans. prob., Oscill. Strengths	Exp	210
Si^{2+}	Trans. prob., Oscill. Strengths	Th	217
Si^{2+}	Trans. prob., Oscill. Strengths	Th	218
Si^{10+}	Trans. prob., Oscill. Strengths	Th	234
Si^{+}	Trans. prob., Oscill. Strengths	Th	236
Si^{3+}	Trans. prob., Oscill. Strengths	Th	255
Si^{+-3+}	Energy Levels, Wavelengths	Exp	282
Si^{13+}	Energy Levels, Wavelengths	Exp	299
Si^{0+-1+}	Energy Levels, Wavelengths	Exp	307
Si^{12+}	Energy Levels, Wavelengths	Th	316
Si^{10+}	Energy Levels, Wavelengths	Th	386
Si^{6+-8+}	Energy Levels, Wavelengths	Exp	389
Si$^{11+-13+}$	Energy Levels, Wavelengths	Th	396
Si	Energy Levels, Wavelengths	E/T	406
Si^{3+}	Energy Levels, Wavelengths	Th	411
Si^{3+}	Energy Levels, Wavelengths	Th	414
Si^{11+}	Energy Levels, Wavelengths	Exp	426
Si^{12+}	Energy Levels, Wavelengths	Exp	426
Si^{11+}	Energy Levels, Wavelengths	Exp	435
Si^{12+}	Energy Levels, Wavelengths	Exp	435
Si^{5+-13+}	Energy Levels, Wavelengths	Exp	438
Si$^{11+-13+}$	Energy Levels, Wavelengths	Exp	448
Si^{2+}	Energy Levels, Wavelengths	Exp	454
Si^{7+}	Energy Levels, Wavelengths	Exp	454
Si^{8+}	Energy Levels, Wavelengths	Exp	454
Si^{11+}	Energy Levels, Wavelengths	Exp	454
Si^{5+-11+}	Energy Levels, Wavelengths	Exp	455
Si^{7+-13+}	Energy Levels, Wavelengths	Exp	456
Si$^{10+-13+}$	Energy Levels, Wavelengths	Exp	459
Si$^{10+-13+}$	Energy Levels, Wavelengths	E/T	460
Si	Energy Levels, Wavelengths	Exp	462
Si^{5+}	Energy Levels, Wavelengths	Exp	463
Si^{6+}	Energy Levels, Wavelengths	Exp	463
Si^{8+}	Energy Levels, Wavelengths	Exp	463
Si^{7+-11+}	Energy Levels, Wavelengths	Exp	469
Si^{3+}	Energy Levels, Wavelengths	Exp	476
Si^{11+}	Energy Levels, Wavelengths	Exp	477
Si^{11+}	Energy Levels, Wavelengths	Exp	478
Si^{0+-3+}	Energy Levels, Wavelengths	Exp	479
Si	Energy Levels, Wavelengths	Exp	483
Si	Energy Levels, Wavelengths	Exp	501

Si^{10+}	Trans. prob., Oscill. Strengths	Th	566
Si$^{11+-13+}$	Trans. prob., Oscill. Strengths	Th	571
Si^{12+}	Trans. prob., Oscill. Strengths	Th	575
Si^{7+}	Energy Levels, Wavelengths	Th	593
Si^{6+-9+}	Energy Levels, Wavelengths	Exp	595
Si^{13+}	Energy Levels, Wavelengths	Th	617
Si^{2+}	Energy Levels, Wavelengths	Th	642
Si^{2+}	Energy Levels, Wavelengths	Th	644
Si	Energy Levels, Wavelengths	Th	654
Si^{13+}	Energy Levels, Wavelengths	Exp	659
Si^{12+}	Energy Levels, Wavelengths	Th	660
Si^{-}	Energy Levels, Wavelengths	Th	670
Si^{7+}	Energy Levels, Wavelengths	Exp	695
Si$^{10+-11+}$	Energy Levels, Wavelengths	Exp	695
Si^{+}	Energy Levels, Wavelengths	Exp	696
Si^{5+-11+}	Energy Levels, Wavelengths	Th	703
Si^{8+}	Energy Levels, Wavelengths	E/T	705
Si^{+-2+}	Energy Levels, Wavelengths	Th	708
Si^{4+-12+}	Energy Levels, Wavelengths	Th	722
Si^{2+}	Energy Levels, Wavelengths	Th	740
Si^{+-2+}	Energy Levels, Wavelengths	Exp	772
Si$^{12+-13+}$	Energy Levels, Wavelengths	Exp	775
Si^{7+}	Trans. prob., Oscill. Strengths	Th	781
Si^{7+}	Trans. prob., Oscill. Strengths	Exp	821
Si	Trans. prob., Oscill. Strengths	Th	829
Si	Trans. prob., Oscill. Strengths	E/T	848
Si	Trans. prob., Oscill. Strengths	Exp	861
Si^{4+-12+}	Trans. prob., Oscill. Strengths	Th	867
P^{12+}	Energy Levels, Wavelengths	Th	49
P	Energy Levels, Wavelengths	Exp	168
P^{0+-4+}	Energy Levels, Wavelengths	E/T	170
P	Energy Levels, Wavelengths	E/T	172
P^{+}	Energy Levels, Wavelengths	E/T	172
P^{3+}	Trans. prob., Oscill. Strengths	Th	218
P^{3+}	Energy Levels, Wavelengths	Exp	282
P^{13+}	Energy Levels, Wavelengths	Th	316
P^{12+}	Energy Levels, Wavelengths	E/T	460
P^{13+}	Trans. prob., Oscill. Strengths	E/T	531
P^{13+}	Energy Levels, Wavelengths	Th	652
P^{13+}	Energy Levels, Wavelengths	Th	660
P^{-}	Energy Levels, Wavelengths	Th	670
P^{+}	Energy Levels, Wavelengths	Exp	696
P^{9+}	Energy Levels, Wavelengths	E/T	705
P^{7+-9+}	Trans. prob., Oscill. Strengths	Exp	821
P^{13+}	Trans. prob., Oscill. Strengths	Th	828
S	Energy Levels, Wavelengths	Exp	20
S^{4+}	Energy Levels, Wavelengths	Th	84
S^{7+-9+}	Energy Levels, Wavelengths	Exp	110
S^{2+-5+}	Energy Levels, Wavelengths	Exp	116
S^{8+}	Energy Levels, Wavelengths	Exp	116
S	Energy Levels, Wavelengths	Exp	168
S^{0+-3+}	Energy Levels, Wavelengths	E/T	170
S^{0+-2+}	Energy Levels, Wavelengths	E/T	172
S^{4+}	Trans. prob., Oscill. Strengths	Th	218
S^{3+-4+}	Energy Levels, Wavelengths	Exp	282
S^{14+}	Energy Levels, Wavelengths	Th	316
^{33}**S**$^{-}$	Energy Levels, Wavelengths	Th	372
S^{-}	Energy Levels, Wavelengths	Th	372
S	Energy Levels, Wavelengths	Th	372

$\mathbf{S}^{12+-15+}$	Energy Levels, Wavelengths	Exp	448
$\mathbf{S}^{9+}$	Energy Levels, Wavelengths	Exp	454
$\mathbf{S}^{6+-12+}$	Energy Levels, Wavelengths	Exp	455
$\mathbf{S}^{9+-14+}$	Energy Levels, Wavelengths	Exp	456
$\mathbf{S}^{9+}$	Energy Levels, Wavelengths	E/T	460
$\mathbf{S}^{11+-15+}$	Energy Levels, Wavelengths	E/T	460
$\mathbf{S}^{2+-3+}$	Energy Levels, Wavelengths	Exp	463
$\mathbf{S}^{4+}$	Energy Levels, Wavelengths	Exp	469
$\mathbf{S}^{9+}$	Energy Levels, Wavelengths	Exp	477
$\mathbf{S}^{11+-12+}$	Energy Levels, Wavelengths	Exp	477
$\mathbf{S}^{9+}$	Energy Levels, Wavelengths	Exp	478
$\mathbf{S}^{11+-12+}$	Energy Levels, Wavelengths	Exp	478
$\mathbf{S}^{+-2+}$	Energy Levels, Wavelengths	Exp	479
$\mathbf{S}$	Energy Levels, Wavelengths	Exp	483
$\mathbf{S}^{9+-12+}$	Energy Levels, Wavelengths	Exp	595
$\mathbf{S}^{14+}$	Energy Levels, Wavelengths	Th	652
$\mathbf{S}^{14+}$	Energy Levels, Wavelengths	Th	660
$\mathbf{S}^{-}$	Energy Levels, Wavelengths	Th	670
$\mathbf{S}$	Energy Levels, Wavelengths	Exp	696
$\mathbf{S}^{10+}$	Energy Levels, Wavelengths	E/T	705
$^{33}\mathbf{S}^{-}$	Energy Levels, Wavelengths	Th	716
$\mathbf{S}^{-}$	Energy Levels, Wavelengths	Th	716
$\mathbf{S}^{2+}$	Energy Levels, Wavelengths	Exp	772
$\mathbf{S}^{8+}$	Trans. prob., Oscill. Strengths	Exp	821
$\mathbf{S}^{10+}$	Trans. prob., Oscill. Strengths	Exp	821
$\mathbf{S}^{14+}$	Trans. prob., Oscill. Strengths	Th	828
$\mathbf{Cl}^{5+-6+}$	Energy Levels, Wavelengths	Exp	116
$\mathbf{Cl}$	Energy Levels, Wavelengths	Exp	168
$\mathbf{Cl}^{+}$	Energy Levels, Wavelengths	Exp	168
$\mathbf{Cl}^{15+}$	Energy Levels, Wavelengths	Exp	169
$\mathbf{Cl}^{0+-2+}$	Energy Levels, Wavelengths	E/T	170
$\mathbf{Cl}^{+-3+}$	Energy Levels, Wavelengths	E/T	172
$\mathbf{Cl}^{5+}$	Trans. prob., Oscill. Strengths	Th	218
$\mathbf{Cl}$	Energy Levels, Wavelengths	E/T	272
$\mathbf{Cl}^{3+}$	Energy Levels, Wavelengths	Exp	282
$\mathbf{Cl}^{+-2+}$	Energy Levels, Wavelengths	Exp	307
$\mathbf{Cl}^{15+}$	Energy Levels, Wavelengths	Th	316
$\mathbf{Cl}$	Energy Levels, Wavelengths	Th	372
$\mathbf{Cl}^{-}$	Energy Levels, Wavelengths	E/T	391
$\mathbf{Cl}$	Energy Levels, Wavelengths	E/T	391
$\mathbf{Cl}^{0+-4+}$	Energy Levels, Wavelengths	E/T	391
$\mathbf{Cl}$	Trans. prob., Oscill. Strengths	Th	569
$\mathbf{Cl}^{2+}$	Energy Levels, Wavelengths	Th	602
$\mathbf{Cl}^{15+}$	Energy Levels, Wavelengths	Th	651
$\mathbf{Cl}^{15+}$	Energy Levels, Wavelengths	Th	660
$\mathbf{Cl}^{-}$	Energy Levels, Wavelengths	Th	670
$\mathbf{Cl}^{10+-15+}$	Energy Levels, Wavelengths	E/T	701
$\mathbf{Cl}^{13+-15+}$	Energy Levels, Wavelengths	E/T	701
$\mathbf{Cl}^{11+}$	Energy Levels, Wavelengths	E/T	705
$^{35}\mathbf{Cl}^{-}$	Energy Levels, Wavelengths	Th	716
$\mathbf{Cl}^{-}$	Energy Levels, Wavelengths	Th	716
$\mathbf{Cl}$	Energy Levels, Wavelengths	Th	716
$\mathbf{Cl}^{+}$	Energy Levels, Wavelengths	Exp	772
$\mathbf{Cl}^{2+}$	Trans. prob., Oscill. Strengths	Th	786
$\mathbf{Cl}^{15+}$	Trans. prob., Oscill. Strengths	Th	827
$\mathbf{Cl}^{+-4+}$	Trans. prob., Oscill. Strengths	E/T	835
$\mathbf{Cl}^{3+}$	Trans. prob., Oscill. Strengths	E/T	835
$\mathbf{Cl}$	Trans. prob., Oscill. Strengths	Th	853
$\mathbf{Cl}$	Trans. prob., Oscill. Strengths	Th	864

Ar	Energy Levels, Wavelengths	Th	28
Ar	Energy Levels, Wavelengths	Th	41
Ar^{15+}	Energy Levels, Wavelengths	Th	49
Ar^{8+}	Energy Levels, Wavelengths	Exp	95
Ar^{13+}	Energy Levels, Wavelengths	Th	96
Ar^{+}	Energy Levels, Wavelengths	E/T	99
Ar^{+-15+}	Energy Levels, Wavelengths	E/T	99
Ar^{+-17+}	Energy Levels, Wavelengths	E/T	99
Ar$^{15+-17+}$	Energy Levels, Wavelengths	E/T	99
Ar^{4+-7+}	Energy Levels, Wavelengths	Exp	116
Ar	Energy Levels, Wavelengths	Exp	126
Ar^{4+}	Energy Levels, Wavelengths	Th	127
Ar	Energy Levels, Wavelengths	Exp	128
Ar^{16+}	Energy Levels, Wavelengths	Exp	150
Ar	Energy Levels, Wavelengths	Exp	168
Ar^{+}	Energy Levels, Wavelengths	Exp	168
Ar^{0+-3+}	Energy Levels, Wavelengths	E/T	170
Ar^{0+-4+}	Energy Levels, Wavelengths	E/T	172
Ar	Energy Levels, Wavelengths	Exp	176
Ar	Trans. prob., Oscill. Strengths	Th	188
Ar	Trans. prob., Oscill. Strengths	Th	204
Ar^{6+}	Trans. prob., Oscill. Strengths	Th	217
Ar^{3+-5+}	Trans. prob., Oscill. Strengths	Th	221
Ar^{7+-8+}	Trans. prob., Oscill. Strengths	Th	221
Ar$^{10+-14+}$	Trans. prob., Oscill. Strengths	Th	221
Ar^{17+}	Trans. prob., Oscill. Strengths	Th	221
Ar^{13+}	Trans. prob., Oscill. Strengths	Th	230
Ar^{14+}	Trans. prob., Oscill. Strengths	Th	234
Ar^{4+}	Trans. prob., Oscill. Strengths	Th	247
Ar^{7+}	Trans. prob., Oscill. Strengths	Th	255
Ar^{2+-4+}	Energy Levels, Wavelengths	Exp	282
Ar^{0+-4+}	Energy Levels, Wavelengths	Exp	295
Ar^{0+-2+}	Energy Levels, Wavelengths	Exp	307
Ar^{9+}	Energy Levels, Wavelengths	Exp	307
Ar^{5+}	Energy Levels, Wavelengths	Th	313
Ar^{6+}	Energy Levels, Wavelengths	Th	313
Ar^{16+}	Energy Levels, Wavelengths	Th	320
Ar^{+}	Energy Levels, Wavelengths	Exp	325
Ar	Energy Levels, Wavelengths	Exp	347
Ar^{16+}	Energy Levels, Wavelengths	Th	365
Ar	Energy Levels, Wavelengths	Exp	379
Ar^{+}	Energy Levels, Wavelengths	Exp	380
Ar	Energy Levels, Wavelengths	Th	390
Ar	Energy Levels, Wavelengths	Th	394
Ar	Energy Levels, Wavelengths	Th	402
Ar	Energy Levels, Wavelengths	E/T	403
Ar^{7+}	Energy Levels, Wavelengths	Th	411
Ar	Energy Levels, Wavelengths	Exp	412
Ar^{+}	Energy Levels, Wavelengths	Exp	415
Ar^{+}	Energy Levels, Wavelengths	E/T	429
Ar$^{15+-16+}$	Energy Levels, Wavelengths	Exp	439
Ar^{9+-14+}	Energy Levels, Wavelengths	Exp	441
Ar^{11+}	Energy Levels, Wavelengths	Th	446
Ar	Energy Levels, Wavelengths	Th	447
Ar$^{15+-17+}$	Energy Levels, Wavelengths	Exp	448
Ar$^{14+-16+}$	Energy Levels, Wavelengths	Exp	449
Ar^{5+-7+}	Energy Levels, Wavelengths	Exp	450
Ar^{6+-12+}	Energy Levels, Wavelengths	Exp	452
Ar^{8+-9+}	Energy Levels, Wavelengths	Exp	453

Ar$^{11+-12+}$	Energy Levels, Wavelengths	Exp	454
Ar^{8+}	Energy Levels, Wavelengths	Exp	455
Ar^{12+}	Energy Levels, Wavelengths	Exp	455
Ar$^{12+-14+}$	Energy Levels, Wavelengths	Exp	456
Ar^{7+}	Energy Levels, Wavelengths	Exp	457
Ar^{8+}	Energy Levels, Wavelengths	E/T	458
Ar$^{13+-17+}$	Energy Levels, Wavelengths	E/T	460
Ar^{14+}	Energy Levels, Wavelengths	E/T	461
Ar^{2+}	Energy Levels, Wavelengths	Exp	463
Ar^{4+}	Energy Levels, Wavelengths	Exp	463
Ar^{5+}	Energy Levels, Wavelengths	Exp	463
Ar^{6+-12+}	Energy Levels, Wavelengths	Exp	464
Ar^{7+}	Energy Levels, Wavelengths	Exp	465
Ar^{8+}	Energy Levels, Wavelengths	Exp	467
Ar^{6+-7+}	Energy Levels, Wavelengths	Exp	469
Ar^{7+}	Energy Levels, Wavelengths	Exp	470
Ar$^{10+-11+}$	Energy Levels, Wavelengths	E/T	472
Ar$^{11+-12+}$	Energy Levels, Wavelengths	Exp	473
Ar^{4+-9+}	Energy Levels, Wavelengths	Exp	474
Ar^{8+}	Energy Levels, Wavelengths	Exp	474
Ar$^{15+-17+}$	Energy Levels, Wavelengths	Exp	475
Ar$^{11+-13+}$	Energy Levels, Wavelengths	Exp	477
Ar$^{11+-13+}$	Energy Levels, Wavelengths	Exp	478
Ar^{2+-4+}	Energy Levels, Wavelengths	Exp	479
Ar^{7+}	Energy Levels, Wavelengths	Exp	480
Ar^{7+}	Energy Levels, Wavelengths	Exp	481
Ar^{3+-8+}	Energy Levels, Wavelengths	Exp	482
Ar^{7+}	Energy Levels, Wavelengths	Exp	487
Ar^{7+}	Energy Levels, Wavelengths	Exp	488
Ar^{6+-12+}	Energy Levels, Wavelengths	Exp	489
Ar^{7+}	Energy Levels, Wavelengths	Exp	490
Ar^{5+-8+}	Energy Levels, Wavelengths	Exp	492
Ar^{7+}	Energy Levels, Wavelengths	Exp	493
Ar^{8+}	Energy Levels, Wavelengths	Exp	497
Ar^{9+-13+}	Energy Levels, Wavelengths	Exp	498
Ar^{5+-6+}	Energy Levels, Wavelengths	Exp	499
Ar^{10+}	Energy Levels, Wavelengths	Exp	500
Ar^{7+}	Energy Levels, Wavelengths	Exp	503
Ar^{6+}	Energy Levels, Wavelengths	Exp	506
Ar^{6+-11+}	Energy Levels, Wavelengths	Exp	509
Ar^{16+}	Trans. prob., Oscill. Strengths	Th	532
Ar^{2+}	Trans. prob., Oscill. Strengths	Exp	547
Ar^{10+}	Energy Levels, Wavelengths	Exp	595
Ar^{13+}	Energy Levels, Wavelengths	Exp	595
Ar	Energy Levels, Wavelengths	Exp	598
Ar^{16+}	Energy Levels, Wavelengths	Exp	616
Ar^{2+}	Energy Levels, Wavelengths	Th	658
Ar^{15+}	Energy Levels, Wavelengths	Th	662
Ar	Energy Levels, Wavelengths	Exp	672
Ar^{+}	Energy Levels, Wavelengths	Exp	685
Ar^{17+}	Energy Levels, Wavelengths	Th	688
Ar^{6+}	Energy Levels, Wavelengths	Exp	695
Ar^{15+}	Energy Levels, Wavelengths	Exp	699
Ar^{16+}	Energy Levels, Wavelengths	Exp	699
Ar^{13+}	Energy Levels, Wavelengths	Exp	704
Ar^{+}	Energy Levels, Wavelengths	Th	727
Ar	Energy Levels, Wavelengths	Exp	729
Ar	Energy Levels, Wavelengths	E/T	732
Ar^{+-2+}	Energy Levels, Wavelengths	Exp	734

Ar^{9+-17+}	Energy Levels, Wavelengths	Exp	735
Ar^{16+}	Energy Levels, Wavelengths	Th	744
Ar	Energy Levels, Wavelengths	Exp	746
Ar^{-}	Energy Levels, Wavelengths	Exp	748
Ar^{16+}	Energy Levels, Wavelengths	Th	753
Ar	Energy Levels, Wavelengths	Exp	764
Ar^{12+}	Energy Levels, Wavelengths	Exp	769
Ar	Energy Levels, Wavelengths	Exp	770
Ar^{2+-3+}	Trans. prob., Oscill. Strengths	Exp	789
Ar	Trans. prob., Oscill. Strengths	E/T	830
Ar^{2+}	Trans. prob., Oscill. Strengths	Th	833
Ar^{15+}	Trans. prob., Oscill. Strengths	Th	834
Ar^{16+}	Trans. prob., Oscill. Strengths	Th	876
K	Energy Levels, Wavelengths	Exp	20
K	Energy Levels, Wavelengths	Th	28
K	Energy Levels, Wavelengths	Th	45
K	Energy Levels, Wavelengths	Th	157
K	Energy Levels, Wavelengths	Exp	168
K^{17+}	Energy Levels, Wavelengths	Exp	169
K^{0+-2+}	Energy Levels, Wavelengths	E/T	170
K	Energy Levels, Wavelengths	E/T	172
K^{3+}	Energy Levels, Wavelengths	E/T	172
K^{7+}	Trans. prob., Oscill. Strengths	Th	218
K^{16+}	Energy Levels, Wavelengths	E/T	271
K^{3+-5+}	Energy Levels, Wavelengths	Exp	282
K	Energy Levels, Wavelengths	Th	292
K^{17+}	Energy Levels, Wavelengths	Th	316
K	Energy Levels, Wavelengths	Th	360
K	Energy Levels, Wavelengths	Th	402
K	Energy Levels, Wavelengths	E/T	403
K	Energy Levels, Wavelengths	Th	411
K^{17+}	Energy Levels, Wavelengths	Exp	448
K^{0+-1+}	Energy Levels, Wavelengths	Th	451
K^{12+}	Energy Levels, Wavelengths	Exp	454
K^{9+}	Energy Levels, Wavelengths	E/T	458
K^{16+}	Energy Levels, Wavelengths	E/T	460
K	Energy Levels, Wavelengths	Exp	462
K^{2+}	Energy Levels, Wavelengths	Exp	463
K^{6+}	Energy Levels, Wavelengths	Exp	463
K^{8+}	Energy Levels, Wavelengths	Exp	469
K^{3+-4+}	Energy Levels, Wavelengths	Exp	479
K^{17+}	Energy Levels, Wavelengths	Th	651
K	Energy Levels, Wavelengths	Th	663
K^{13+}	Energy Levels, Wavelengths	E/T	705
K^{17+}	Trans. prob., Oscill. Strengths	Th	827
Ca^{0+-1+}	Energy Levels, Wavelengths	Exp	20
Ca	Energy Levels, Wavelengths	Th	28
Ca^{+}	Energy Levels, Wavelengths	Th	48
Ca^{17+}	Energy Levels, Wavelengths	Th	49
Ca^{4+-5+}	Energy Levels, Wavelengths	Exp	116
Ca^{7+-9+}	Energy Levels, Wavelengths	Exp	116
Ca^{17+}	Energy Levels, Wavelengths	Th	118
Ca^{19+}	Energy Levels, Wavelengths	Exp	146
Ca	Energy Levels, Wavelengths	Exp	155
Ca^{-}	Energy Levels, Wavelengths	Th	158
Ca	Energy Levels, Wavelengths	Th	158
Ca	Energy Levels, Wavelengths	Exp	168
Ca^{+}	Energy Levels, Wavelengths	Exp	168
Ca^{0+-2+}	Energy Levels, Wavelengths	E/T	170

Ca	Energy Levels, Wavelengths	E/T	172
Ca^{+}	Energy Levels, Wavelengths	E/T	172
Ca^{4+}	Energy Levels, Wavelengths	E/T	172
Ca^{8+}	Trans. prob., Oscill. Strengths	Th	217
Ca^{8+}	Trans. prob., Oscill. Strengths	Th	218
Ca^{4+-6+}	Energy Levels, Wavelengths	Exp	282
Ca^{+}	Energy Levels, Wavelengths	Th	292
Ca^{19+}	Energy Levels, Wavelengths	Exp	297
Ca	Energy Levels, Wavelengths	Th	402
Ca^{9+}	Energy Levels, Wavelengths	Th	402
Ca^{17+}	Energy Levels, Wavelengths	Th	402
Ca	Energy Levels, Wavelengths	E/T	403
Ca$^{17+-18+}$	Energy Levels, Wavelengths	Exp	409
Ca^{+}	Energy Levels, Wavelengths	Th	411
Ca$^{17+-18+}$	Energy Levels, Wavelengths	Exp	448
Ca	Energy Levels, Wavelengths	Th	451
Ca^{2+}	Energy Levels, Wavelengths	Th	451
Ca^{9+}	Energy Levels, Wavelengths	Exp	454
Ca^{13+}	Energy Levels, Wavelengths	Exp	454
Ca$^{10+-11+}$	Energy Levels, Wavelengths	Exp	455
Ca^{10+}	Energy Levels, Wavelengths	E/T	458
Ca$^{11+-19+}$	Energy Levels, Wavelengths	E/T	460
Ca^{+}	Energy Levels, Wavelengths	Exp	462
Ca^{6+-7+}	Energy Levels, Wavelengths	Exp	469
Ca^{9+}	Energy Levels, Wavelengths	Exp	469
Ca$^{12+-14+}$	Energy Levels, Wavelengths	Exp	473
Ca^{9+}	Energy Levels, Wavelengths	Exp	477
Ca^{9+}	Energy Levels, Wavelengths	Exp	478
Ca^{+}	Energy Levels, Wavelengths	Exp	479
Ca^{4+-6+}	Energy Levels, Wavelengths	Exp	479
Ca^{0+-1+}	Energy Levels, Wavelengths	Exp	483
Ca^{14+}	Energy Levels, Wavelengths	Exp	500
Ca	Trans. prob., Oscill. Strengths	E/T	531
Ca^{+}	Trans. prob., Oscill. Strengths	Th	535
Ca$^{13+-14+}$	Energy Levels, Wavelengths	Exp	595
Ca^{18+}	Energy Levels, Wavelengths	Th	651
Ca^{9+}	Energy Levels, Wavelengths	Exp	695
Ca^{14+}	Energy Levels, Wavelengths	E/T	705
Ca^{0+-1+}	Energy Levels, Wavelengths	Exp	755
Ca^{18+}	Trans. prob., Oscill. Strengths	Th	827
Sc	Energy Levels, Wavelengths	Exp	20
Sc^{18+}	Energy Levels, Wavelengths	Th	49
Sc^{0+-2+}	Energy Levels, Wavelengths	E/T	170
Sc	Energy Levels, Wavelengths	E/T	172
Sc^{+}	Energy Levels, Wavelengths	E/T	172
Sc^{9+}	Trans. prob., Oscill. Strengths	Th	218
Sc^{19+}	Energy Levels, Wavelengths	Th	316
Sc^{3+}	Energy Levels, Wavelengths	Th	361
Sc^{2+}	Energy Levels, Wavelengths	Th	411
Sc^{11+}	Energy Levels, Wavelengths	E/T	458
Sc^{+}	Energy Levels, Wavelengths	Exp	479
Sc	Energy Levels, Wavelengths	Exp	483
Sc^{19+}	Trans. prob., Oscill. Strengths	E/T	531
Sc^{19+}	Energy Levels, Wavelengths	Th	651
Sc^{15+}	Energy Levels, Wavelengths	E/T	705
Sc-Ni^{+}	Energy Levels, Wavelengths	Exp	755
Sc^{19+}	Trans. prob., Oscill. Strengths	Th	827
Ti	Energy Levels, Wavelengths	Exp	20
Ti^{9+}	Energy Levels, Wavelengths	Th	26

Ti^{+}	Energy Levels, Wavelengths	Exp	42
Ti^{16+}	Energy Levels, Wavelengths	Th	88
Ti	Energy Levels, Wavelengths	Exp	138
Ti^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Ti^{3+}	Energy Levels, Wavelengths	E/T	170
Ti	Energy Levels, Wavelengths	E/T	172
Ti^{+}	Energy Levels, Wavelengths	E/T	172
Ti^{9+}	Trans. prob., Oscill. Strengths	Th	195
Ti^{3+}	Trans. prob., Oscill. Strengths	Th	212
Ti^{9+}	Trans. prob., Oscill. Strengths	Th	216
Ti^{10+}	Trans. prob., Oscill. Strengths	Th	218
Ti^{16+}	Trans. prob., Oscill. Strengths	Th	225
Ti^{18+}	Trans. prob., Oscill. Strengths	Th	234
Ti^{11+}	Trans. prob., Oscill. Strengths	Th	255
Ti^{10+}	Energy Levels, Wavelengths	Th	269
Ti$^{13+-20+}$	Energy Levels, Wavelengths	Th	289
Ti	Energy Levels, Wavelengths	Exp	307
Ti^{2+}	Energy Levels, Wavelengths	Exp	307
Ti^{20+}	Energy Levels, Wavelengths	Th	316
Ti	Energy Levels, Wavelengths	E/T	403
Ti^{3+}	Energy Levels, Wavelengths	Th	405
Ti^{3+}	Energy Levels, Wavelengths	Th	411
Ti$^{13+-16+}$	Energy Levels, Wavelengths	Exp	441
Ti^{18+}	Energy Levels, Wavelengths	Exp	441
Ti^{12+}	Energy Levels, Wavelengths	E/T	458
Ti	Energy Levels, Wavelengths	Exp	462
Ti^{+}	Energy Levels, Wavelengths	Exp	479
Ti	Energy Levels, Wavelengths	Exp	483
Ti^{18+}	Trans. prob., Oscill. Strengths	Th	517
Ti$^{13+-20+}$	Trans. prob., Oscill. Strengths	Th	518
Ti^{18+}	Trans. prob., Oscill. Strengths	E/T	531
Ti^{+}	Energy Levels, Wavelengths	Exp	599
Ti^{20+}	Energy Levels, Wavelengths	Exp	615
Ti^{6+}	Energy Levels, Wavelengths	Th	627
Ti^{18+}	Energy Levels, Wavelengths	Th	630
Ti^{20+}	Energy Levels, Wavelengths	Th	641
Ti^{0+-1+}	Energy Levels, Wavelengths	Exp	682
Ti^{16+}	Energy Levels, Wavelengths	E/T	705
Ti	Energy Levels, Wavelengths	Exp	751
Ti^{+}	Energy Levels, Wavelengths	Exp	752
Ti^{+}	Energy Levels, Wavelengths	Exp	754
Ti^{+}	Energy Levels, Wavelengths	Exp	760
Ti	Energy Levels, Wavelengths	Exp	765
Ti^{2+}	Energy Levels, Wavelengths	Exp	772
Ti^{6+}	Trans. prob., Oscill. Strengths	Th	807
Ti^{18+}	Trans. prob., Oscill. Strengths	Th	808
Ti^{20+}	Trans. prob., Oscill. Strengths	Th	819
Ti^{6+}	Trans. prob., Oscill. Strengths	E/T	835
Ti^{6+-9+}	Trans. prob., Oscill. Strengths	E/T	835
V^{10+}	Energy Levels, Wavelengths	Th	46
V^{22+}	Energy Levels, Wavelengths	Exp	90
V^{0+-1+}	Energy Levels, Wavelengths	E/T	170
V	Energy Levels, Wavelengths	E/T	172
V^{+}	Energy Levels, Wavelengths	E/T	172
V^{10+}	Trans. prob., Oscill. Strengths	Th	205
V^{11+}	Trans. prob., Oscill. Strengths	Th	218
V	Energy Levels, Wavelengths	E/T	283
V^{21+}	Energy Levels, Wavelengths	Th	316
V	Energy Levels, Wavelengths	Exp	358

V^{4+}	Energy Levels, Wavelengths	Th	405
V^{13+}	Energy Levels, Wavelengths	E/T	458
V^{+}	Energy Levels, Wavelengths	Exp	479
V	Energy Levels, Wavelengths	Exp	483
V	Energy Levels, Wavelengths	Exp	491
V^{21+}	Trans. prob., Oscill. Strengths	E/T	531
V^{4+}	Trans. prob., Oscill. Strengths	Th	548
V^{21+}	Energy Levels, Wavelengths	Th	641
V^{7+}	Energy Levels, Wavelengths	E/T	705
V^{+}	Energy Levels, Wavelengths	Exp	711
V^{+}	Energy Levels, Wavelengths	Exp	772
V^{21+}	Trans. prob., Oscill. Strengths	Th	819
Cr	Energy Levels, Wavelengths	Exp	20
Cr^{6+-7+}	Energy Levels, Wavelengths	Exp	110
Cr^{7+}	Energy Levels, Wavelengths	Th	115
Cr	Energy Levels, Wavelengths	Exp	168
Cr^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Cr	Energy Levels, Wavelengths	E/T	172
Cr^{+}	Energy Levels, Wavelengths	E/T	172
Cr^{+}	Trans. prob., Oscill. Strengths	Exp	186
Cr^{12+}	Trans. prob., Oscill. Strengths	Th	218
Cr^{7+}	Trans. prob., Oscill. Strengths	Th	241
Cr^{22+}	Energy Levels, Wavelengths	Th	316
Cr^{5+}	Energy Levels, Wavelengths	Th	405
Cr^{14+}	Energy Levels, Wavelengths	E/T	458
Cr$^{14+-15+}$	Energy Levels, Wavelengths	E/T	460
Cr^{21+}	Energy Levels, Wavelengths	E/T	460
Cr^{+}	Energy Levels, Wavelengths	Exp	479
Cr^{3+-4+}	Energy Levels, Wavelengths	Exp	479
Cr^{7+}	Energy Levels, Wavelengths	Exp	595
Cr^{+}	Energy Levels, Wavelengths	Exp	599
Cr^{+}	Energy Levels, Wavelengths	Exp	601
Cr	Energy Levels, Wavelengths	Exp	606
Cr^{22+}	Energy Levels, Wavelengths	Th	641
Cr	Energy Levels, Wavelengths	Exp	667
Cr^{+}	Energy Levels, Wavelengths	Th	697
Cr^{18+}	Energy Levels, Wavelengths	E/T	705
Cr	Energy Levels, Wavelengths	E/T	709
Cr^{+}	Energy Levels, Wavelengths	Th	714
Cr$^{14+-22+}$	Energy Levels, Wavelengths	Th	743
Cr^{+-2+}	Energy Levels, Wavelengths	Exp	772
Cr^{+}	Trans. prob., Oscill. Strengths	Exp	785
Cr^{22+}	Trans. prob., Oscill. Strengths	Th	819
Cr^{+}	Trans. prob., Oscill. Strengths	Th	858
Cr$^{14+-22+}$	Trans. prob., Oscill. Strengths	Th	875
Mn^{7+-8+}	Energy Levels, Wavelengths	Exp	110
Mn^{6+}	Energy Levels, Wavelengths	Exp	116
Mn^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Mn	Energy Levels, Wavelengths	E/T	172
Mn^{+}	Energy Levels, Wavelengths	E/T	172
Mn^{13+}	Trans. prob., Oscill. Strengths	Th	218
Mn^{23+}	Energy Levels, Wavelengths	Th	316
Mn^{20+}	Energy Levels, Wavelengths	Th	348
Mn^{7+}	Energy Levels, Wavelengths	Th	361
Mn^{6+}	Energy Levels, Wavelengths	Th	405
Mn^{7+}	Energy Levels, Wavelengths	Th	405
Mn^{15+}	Energy Levels, Wavelengths	E/T	458
Mn	Energy Levels, Wavelengths	Exp	462
Mn^{3+}	Energy Levels, Wavelengths	Exp	479

Mn	Trans. prob., Oscill. Strengths	Exp	513
Mn^{23+}	Trans. prob., Oscill. Strengths	E/T	531
Mn^{20+}	Trans. prob., Oscill. Strengths	Th	546
Mn^{7+-8+}	Energy Levels, Wavelengths	Exp	595
Mn^{14+}	Energy Levels, Wavelengths	Exp	595
Mn^{+}	Energy Levels, Wavelengths	Exp	599
Mn^{23+}	Energy Levels, Wavelengths	Th	641
Mn	Energy Levels, Wavelengths	Exp	667
Mn^{19+}	Energy Levels, Wavelengths	E/T	705
Mn^{+}	Energy Levels, Wavelengths	Exp	759
Mn^{+}	Energy Levels, Wavelengths	Exp	762
Mn^{+-2+}	Energy Levels, Wavelengths	Exp	772
Mn^{23+}	Trans. prob., Oscill. Strengths	Th	819
Mn^{9+-12+}	Trans. prob., Oscill. Strengths	E/T	835
Mn	Trans. prob., Oscill. Strengths	Exp	877
Mn	Trans. prob., Oscill. Strengths	E/T	879
Fe^{7+}	Energy Levels, Wavelengths	E/T	3
Fe^{10+}	Energy Levels, Wavelengths	E/T	5
Fe^{10+}	Energy Levels, Wavelengths	E/T	6
Fe^{10+}	Energy Levels, Wavelengths	Exp	8
Fe^{10+}	Energy Levels, Wavelengths	Exp	11
Fe^{12+}	Energy Levels, Wavelengths	Exp	11
Fe^{13+}	Energy Levels, Wavelengths	Exp	11
Fe$^{18+-19+}$	Energy Levels, Wavelengths	Th	13
Fe	Energy Levels, Wavelengths	Exp	20
Fe^{21+}	Energy Levels, Wavelengths	Th	30
Fe^{23+}	Energy Levels, Wavelengths	Th	49
Fe^{23+}	Energy Levels, Wavelengths	Th	80
Fe^{9+}	Energy Levels, Wavelengths	Th	89
Fe^{21+}	Energy Levels, Wavelengths	Th	96
Fe$^{23+-25+}$	Energy Levels, Wavelengths	Exp	107
Fe^{8+}	Energy Levels, Wavelengths	Exp	108
Fe^{6+-8+}	Energy Levels, Wavelengths	Exp	109
Fe^{7+-8+}	Energy Levels, Wavelengths	Exp	109
Fe^{6+-15+}	Energy Levels, Wavelengths	Exp	110
Fe^{16+}	Energy Levels, Wavelengths	Exp	111
Fe^{7+}	Energy Levels, Wavelengths	Exp	112
Fe^{6+}	Energy Levels, Wavelengths	Exp	113
Fe^{+}	Energy Levels, Wavelengths	Exp	114
Fe^{6+-7+}	Energy Levels, Wavelengths	Exp	116
Fe^{11+}	Energy Levels, Wavelengths	Exp	116
Fe	Energy Levels, Wavelengths	Exp	131
Fe^{0+-1+}	Energy Levels, Wavelengths	Th	137
Fe^{24+}	Energy Levels, Wavelengths	Th	141
Fe	Energy Levels, Wavelengths	Th	149
Fe^{+}	Energy Levels, Wavelengths	E/T	151
Fe	Energy Levels, Wavelengths	Exp	168
Fe^{+}	Energy Levels, Wavelengths	Exp	168
Fe^{0+-2+}	Energy Levels, Wavelengths	E/T	170
Fe^{0+-2+}	Energy Levels, Wavelengths	E/T	172
Fe^{16+}	Trans. prob., Oscill. Strengths	Exp	178
Fe^{7+}	Trans. prob., Oscill. Strengths	Th	179
Fe^{+}	Trans. prob., Oscill. Strengths	Th	181
Fe^{+}	Trans. prob., Oscill. Strengths	Th	182
Fe^{10+}	Trans. prob., Oscill. Strengths	Th	183
Fe^{10+}	Trans. prob., Oscill. Strengths	Th	184
Fe^{12+}	Trans. prob., Oscill. Strengths	Th	187
Fe^{13+}	Trans. prob., Oscill. Strengths	Th	189
Fe$^{18+-19+}$	Trans. prob., Oscill. Strengths	Th	190

Fe^{12+}	Energy Levels, Wavelengths	Exp	454
Fe^{14+}	Energy Levels, Wavelengths	Exp	454
Fe^{16+}	Energy Levels, Wavelengths	Exp	454
Fe^{17+}	Energy Levels, Wavelengths	Exp	454
Fe^{7+-17+}	Energy Levels, Wavelengths	Exp	455
Fe^{6+-23+}	Energy Levels, Wavelengths	Exp	456
Fe^{16+}	Energy Levels, Wavelengths	E/T	458
Fe^{8+-9+}	Energy Levels, Wavelengths	Exp	459
Fe$^{14+-21+}$	Energy Levels, Wavelengths	Exp	459
Fe$^{15+-25+}$	Energy Levels, Wavelengths	E/T	460
Fe	Energy Levels, Wavelengths	Exp	462
Fe^{9+-13+}	Energy Levels, Wavelengths	Exp	469
Fe$^{16+-18+}$	Energy Levels, Wavelengths	Exp	473
Fe^{+-2+}	Energy Levels, Wavelengths	Exp	476
Fe^{9+}	Energy Levels, Wavelengths	Exp	477
Fe^{11+}	Energy Levels, Wavelengths	Exp	477
Fe^{12+}	Energy Levels, Wavelengths	Exp	477
Fe^{9+}	Energy Levels, Wavelengths	Exp	478
Fe$^{11+-12+}$	Energy Levels, Wavelengths	Exp	478
Fe^{+-6+}	Energy Levels, Wavelengths	Exp	479
Fe	Energy Levels, Wavelengths	Exp	483
Fe^{11+}	Energy Levels, Wavelengths	Exp	500
Fe^{14+}	Trans. prob., Oscill. Strengths	Th	522
Fe^{11+}	Trans. prob., Oscill. Strengths	Th	523
Fe^{13+}	Trans. prob., Oscill. Strengths	Th	523
Fe^{18+}	Trans. prob., Oscill. Strengths	Th	524
Fe^{18+}	Trans. prob., Oscill. Strengths	Th	530
Fe^{21+}	Trans. prob., Oscill. Strengths	Th	546
Fe^{23+}	Trans. prob., Oscill. Strengths	Th	565
Fe^{+}	Trans. prob., Oscill. Strengths	Th	567
Fe^{21+}	Energy Levels, Wavelengths	Exp	583
Fe^{15+}	Energy Levels, Wavelengths	E/T	590
Fe^{11+}	Energy Levels, Wavelengths	Th	591
Fe^{12+}	Energy Levels, Wavelengths	Th	592
Fe^{9+}	Energy Levels, Wavelengths	E/T	594
Fe^{6+-15+}	Energy Levels, Wavelengths	Exp	595
Fe^{7+-8+}	Energy Levels, Wavelengths	E/T	596
Fe^{+}	Energy Levels, Wavelengths	Exp	599
Fe^{7+-15+}	Energy Levels, Wavelengths	Exp	603
Fe^{6+}	Energy Levels, Wavelengths	Th	647
Fe^{23+}	Energy Levels, Wavelengths	Th	662
Fe	Energy Levels, Wavelengths	Exp	667
Fe^{+}	Energy Levels, Wavelengths	Th	678
Fe^{9+}	Energy Levels, Wavelengths	Th	683
Fe$^{16+-23+}$	Energy Levels, Wavelengths	Exp	690
Fe^{7+}	Energy Levels, Wavelengths	Th	693
Fe^{16+}	Energy Levels, Wavelengths	Exp	694
Fe$^{10+-13+}$	Energy Levels, Wavelengths	Exp	695
Fe^{15+}	Energy Levels, Wavelengths	Exp	695
Fe^{20+}	Energy Levels, Wavelengths	E/T	705
Fe^{18+}	Energy Levels, Wavelengths	Th	706
Fe^{16+}	Energy Levels, Wavelengths	Th	719
Fe$^{17+-22+}$	Energy Levels, Wavelengths	Exp	731
Fe^{15+}	Energy Levels, Wavelengths	E/T	736
Fe^{14+}	Energy Levels, Wavelengths	Exp	738
Fe$^{11+-12+}$	Energy Levels, Wavelengths	Exp	741
Fe^{6+}	Energy Levels, Wavelengths	Exp	747
Fe^{16+}	Energy Levels, Wavelengths	Exp	747
Fe^{24+}	Energy Levels, Wavelengths	Th	753

Fe	Energy Levels, Wavelengths	Exp	755
Fe^{+}	Energy Levels, Wavelengths	Exp	756
Fe^{+}	Energy Levels, Wavelengths	Exp	757
Fe^{+}	Energy Levels, Wavelengths	Exp	758
Fe^{8+}	Energy Levels, Wavelengths	Exp	767
Fe^{9+}	Energy Levels, Wavelengths	Exp	767
Fe^{11+}	Energy Levels, Wavelengths	Exp	767
Fe$^{13+-15+}$	Energy Levels, Wavelengths	Exp	767
Fe^{17+}	Energy Levels, Wavelengths	Exp	767
Fe^{18+}	Energy Levels, Wavelengths	Exp	767
Fe$^{15+-16+}$	Energy Levels, Wavelengths	E/T	768
Fe$^{15+-17+}$	Energy Levels, Wavelengths	E/T	768
Fe^{0+-2+}	Energy Levels, Wavelengths	Exp	772
Fe$^{15+-22+}$	Energy Levels, Wavelengths	Exp	775
Fe^{11+}	Trans. prob., Oscill. Strengths	Th	778
Fe^{12+}	Trans. prob., Oscill. Strengths	Th	779
Fe^{9+}	Trans. prob., Oscill. Strengths	Th	780
Fe^{7+-8+}	Trans. prob., Oscill. Strengths	Th	782
Fe^{17+}	Trans. prob., Oscill. Strengths	Th	788
Fe^{23+}	Trans. prob., Oscill. Strengths	Th	834
Fe^{13+}	Trans. prob., Oscill. Strengths	Th	849
Fe$^{15+-16+}$	Trans. prob., Oscill. Strengths	Th	852
Fe^{7+}	Trans. prob., Oscill. Strengths	Th	854
Fe^{+}	Trans. prob., Oscill. Strengths	Th	856
Fe^{0+-1+}	Trans. prob., Oscill. Strengths	E/T	857
Fe	Trans. prob., Oscill. Strengths	Exp	861
Fe^{16+}	Trans. prob., Oscill. Strengths	Th	866
Fe	Trans. prob., Oscill. Strengths	E/T	878
Co^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Co	Energy Levels, Wavelengths	E/T	172
Co^{15+}	Trans. prob., Oscill. Strengths	Th	218
Co^{25+}	Energy Levels, Wavelengths	Th	316
Co^{22+}	Energy Levels, Wavelengths	Th	348
Co^{+}	Energy Levels, Wavelengths	Exp	479
Co^{5+-6+}	Energy Levels, Wavelengths	Exp	479
Co^{25+}	Trans. prob., Oscill. Strengths	E/T	531
Co^{22+}	Trans. prob., Oscill. Strengths	Th	546
Co^{15+}	Trans. prob., Oscill. Strengths	E/T	563
Co^{21+}	Energy Levels, Wavelengths	E/T	705
Ni^{14+}	Energy Levels, Wavelengths	Th	12
Ni^{15+}	Energy Levels, Wavelengths	Th	12
Ni	Energy Levels, Wavelengths	Exp	20
Ni^{25+}	Energy Levels, Wavelengths	Th	49
Ni	Energy Levels, Wavelengths	Exp	53
Ni^{+}	Energy Levels, Wavelengths	Exp	53
Ni^{25+}	Energy Levels, Wavelengths	Exp	64
Ni^{16+}	Energy Levels, Wavelengths	Th	67
Ni$^{16+-17+}$	Energy Levels, Wavelengths	Th	67
Ni^{+}	Energy Levels, Wavelengths	Th	94
Ni^{10+}	Energy Levels, Wavelengths	Exp	110
Ni^{+}	Energy Levels, Wavelengths	E/T	151
Ni^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Ni	Energy Levels, Wavelengths	E/T	172
Ni^{+}	Energy Levels, Wavelengths	E/T	172
Ni^{13+}	Trans. prob., Oscill. Strengths	Th	199
Ni^{15+}	Trans. prob., Oscill. Strengths	Th	206
Ni^{16+}	Trans. prob., Oscill. Strengths	Th	218
Ni^{22+}	Energy Levels, Wavelengths	Th	294
Ni^{23+}	Energy Levels, Wavelengths	Th	348

Ni^{9+}	Energy Levels, Wavelengths	Th	357
Ni^{12+}	Energy Levels, Wavelengths	Exp	454
Ni^{13+}	Energy Levels, Wavelengths	Exp	454
Ni^{9+-12+}	Energy Levels, Wavelengths	Exp	455
Ni^{17+}	Energy Levels, Wavelengths	Exp	455
Ni^{18+}	Energy Levels, Wavelengths	E/T	458
Ni^{18+}	Energy Levels, Wavelengths	Exp	459
Ni$^{15+-16+}$	Energy Levels, Wavelengths	E/T	460
Ni$^{18+-19+}$	Energy Levels, Wavelengths	E/T	460
Ni$^{24+-27+}$	Energy Levels, Wavelengths	E/T	460
Ni$^{12+-14+}$	Energy Levels, Wavelengths	Exp	473
Ni^{12+}	Energy Levels, Wavelengths	Exp	477
Ni^{12+}	Energy Levels, Wavelengths	Exp	478
Ni^{0+-5+}	Energy Levels, Wavelengths	Exp	479
Ni^{7+}	Energy Levels, Wavelengths	Exp	479
Ni	Energy Levels, Wavelengths	Exp	483
Ni^{22+}	Trans. prob., Oscill. Strengths	Th	519
Ni^{16+}	Trans. prob., Oscill. Strengths	Th	525
Ni^{10+}	Trans. prob., Oscill. Strengths	Th	526
Ni^{26+}	Trans. prob., Oscill. Strengths	E/T	531
Ni^{23+}	Trans. prob., Oscill. Strengths	Th	546
Ni^{9+}	Trans. prob., Oscill. Strengths	Th	552
Ni^{16+}	Trans. prob., Oscill. Strengths	E/T	563
Ni	Energy Levels, Wavelengths	Exp	589
Ni^{9+-10+}	Energy Levels, Wavelengths	Exp	595
Ni^{12+}	Energy Levels, Wavelengths	Exp	595
Ni$^{14+-16+}$	Energy Levels, Wavelengths	Exp	595
Ni^{16+}	Energy Levels, Wavelengths	Th	597
Ni^{+}	Energy Levels, Wavelengths	Exp	599
Ni	Energy Levels, Wavelengths	Exp	613
Ni^{14+}	Energy Levels, Wavelengths	Th	619
Ni^{13+}	Energy Levels, Wavelengths	Th	620
Ni^{14+}	Energy Levels, Wavelengths	Th	637
Ni^{4+-5+}	Energy Levels, Wavelengths	Th	691
Ni^{25+}	Energy Levels, Wavelengths	Th	692
Ni^{22+}	Energy Levels, Wavelengths	E/T	705
Ni^{+}	Energy Levels, Wavelengths	Exp	752
Ni^{+}	Energy Levels, Wavelengths	Exp	772
Ni$^{18+-20+}$	Energy Levels, Wavelengths	Exp	775
Ni	Energy Levels, Wavelengths	Exp	776
Ni^{16+}	Trans. prob., Oscill. Strengths	Th	783
Ni^{14+}	Trans. prob., Oscill. Strengths	Th	796
Ni^{13+}	Trans. prob., Oscill. Strengths	Th	798
Ni^{14+}	Trans. prob., Oscill. Strengths	Th	818
Ni^{25+}	Trans. prob., Oscill. Strengths	Th	851
Ni^{+}	Trans. prob., Oscill. Strengths	Th	855
Ni^{+}	Trans. prob., Oscill. Strengths	Exp	859
Ni	Trans. prob., Oscill. Strengths	Exp	861
Cu^{26+}	Energy Levels, Wavelengths	Exp	64
Cu^{16+}	Energy Levels, Wavelengths	Th	122
Cu	Energy Levels, Wavelengths	Exp	168
Cu^{+}	Energy Levels, Wavelengths	Exp	168
Cu^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Cu^{17+}	Trans. prob., Oscill. Strengths	Th	217
Cu^{17+}	Trans. prob., Oscill. Strengths	Th	218
Cu^{16+}	Trans. prob., Oscill. Strengths	Th	246
Cu^{17+}	Trans. prob., Oscill. Strengths	Th	248
Cu	Energy Levels, Wavelengths	Exp	277
Cu	Energy Levels, Wavelengths	Exp	307

Cu^{2+}	Energy Levels, Wavelengths	Exp	307
Cu^{27+}	Energy Levels, Wavelengths	Th	316
Cu^{15+}	Energy Levels, Wavelengths	Th	332
Cu^{24+}	Energy Levels, Wavelengths	Th	348
Cu^{11+}	Energy Levels, Wavelengths	Th	361
Cu	Energy Levels, Wavelengths	Exp	371
Cu	Energy Levels, Wavelengths	Exp	397
Cu	Energy Levels, Wavelengths	Th	402
Cu	Energy Levels, Wavelengths	Exp	420
Cu^{17+}	Energy Levels, Wavelengths	Th	422
Cu	Energy Levels, Wavelengths	Exp	432
Cu^{19+}	Energy Levels, Wavelengths	E/T	458
Cu^{+}	Energy Levels, Wavelengths	Exp	479
Cu	Energy Levels, Wavelengths	Exp	504
Cu^{27+}	Trans. prob., Oscill. Strengths	E/T	531
Cu^{15+}	Trans. prob., Oscill. Strengths	Th	538
Cu^{24+}	Trans. prob., Oscill. Strengths	Th	546
Cu^{17+}	Trans. prob., Oscill. Strengths	E/T	563
Cu	Trans. prob., Oscill. Strengths	Exp	574
Cu^{19+}	Energy Levels, Wavelengths	Th	609
Cu^{19+}	Energy Levels, Wavelengths	Th	618
Cu^{+}	Energy Levels, Wavelengths	Exp	681
Cu^{19+}	Energy Levels, Wavelengths	Th	687
Cu$^{19+-22+}$	Energy Levels, Wavelengths	Exp	690
Cu	Energy Levels, Wavelengths	Exp	730
Cu^{14+}	Energy Levels, Wavelengths	E/T	766
Cu^{+}	Energy Levels, Wavelengths	Exp	772
Cu^{19+}	Trans. prob., Oscill. Strengths	Th	787
Cu^{19+}	Trans. prob., Oscill. Strengths	Th	795
Cu$^{13+-16+}$	Trans. prob., Oscill. Strengths	E/T	835
Cu^{19+}	Trans. prob., Oscill. Strengths	Th	850
Cu	Trans. prob., Oscill. Strengths	Th	871
Zn	Energy Levels, Wavelengths	Th	14
Zn^{27+}	Energy Levels, Wavelengths	Th	49
Zn	Energy Levels, Wavelengths	Exp	168
Zn^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Zn	Trans. prob., Oscill. Strengths	Th	201
Zn^{18+}	Trans. prob., Oscill. Strengths	Th	217
Zn^{18+}	Trans. prob., Oscill. Strengths	Th	218
Zn^{26+}	Trans. prob., Oscill. Strengths	Th	234
Zn^{19+}	Trans. prob., Oscill. Strengths	Th	255
Zn^{28+}	Energy Levels, Wavelengths	Th	316
Zn^{25+}	Energy Levels, Wavelengths	Th	348
Zn	Energy Levels, Wavelengths	Th	402
Zn^{19+}	Energy Levels, Wavelengths	Th	402
Zn^{27+}	Energy Levels, Wavelengths	Th	402
Zn^{20+}	Energy Levels, Wavelengths	E/T	458
Zn	Trans. prob., Oscill. Strengths	Th	529
Zn^{+}	Trans. prob., Oscill. Strengths	Th	535
Zn^{25+}	Trans. prob., Oscill. Strengths	Th	546
Zn^{+}	Energy Levels, Wavelengths	Exp	599
Zn^{+}	Energy Levels, Wavelengths	Exp	681
Zn^{0+-1+}	Energy Levels, Wavelengths	Exp	772
Ga	Energy Levels, Wavelengths	Exp	168
Ga	Energy Levels, Wavelengths	E/T	170
Ga	Energy Levels, Wavelengths	E/T	172
Ga^{19+}	Trans. prob., Oscill. Strengths	Th	218
Ga^{29+}	Energy Levels, Wavelengths	Th	316
Ga	Energy Levels, Wavelengths	Th	395

Ga	Energy Levels, Wavelengths	Th	402
Ga^{21+}	Energy Levels, Wavelengths	E/T	458
Ga^{+}	Trans. prob., Oscill. Strengths	Th	529
Ga^{29+}	Trans. prob., Oscill. Strengths	E/T	531
Ga-Br	Energy Levels, Wavelengths	Th	656
Ga^{-}	Energy Levels, Wavelengths	Th	670
Ga^{+}	Energy Levels, Wavelengths	Exp	681
Ga^{+}	Energy Levels, Wavelengths	Exp	772
Ge	Energy Levels, Wavelengths	Exp	168
Ge^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Ge^{2+}	Trans. prob., Oscill. Strengths	Th	201
Ge^{31+}	Energy Levels, Wavelengths	Exp	297
Ge^{30+}	Energy Levels, Wavelengths	Th	316
Ge^{0+-1+}	Energy Levels, Wavelengths	Exp	380
Ge^{22+}	Energy Levels, Wavelengths	E/T	458
Ge^{4+}	Energy Levels, Wavelengths	Exp	468
Ge^{2+}	Trans. prob., Oscill. Strengths	Th	529
Ge^{-}	Energy Levels, Wavelengths	Th	670
Ge$^{16+-19+}$	Trans. prob., Oscill. Strengths	E/T	835
Ge^{18+}	Trans. prob., Oscill. Strengths	E/T	835
As^{+}	Energy Levels, Wavelengths	Exp	168
As^{0+-1+}	Energy Levels, Wavelengths	E/T	170
As^{3+}	Trans. prob., Oscill. Strengths	Th	201
As^{31+}	Energy Levels, Wavelengths	Th	316
As^{23+}	Energy Levels, Wavelengths	E/T	458
As^{3+}	Trans. prob., Oscill. Strengths	Th	529
As^{-}	Energy Levels, Wavelengths	Th	670
Se^{21+}	Energy Levels, Wavelengths	Th	55
Se	Energy Levels, Wavelengths	Exp	168
Se^{+}	Energy Levels, Wavelengths	Exp	168
Se	Energy Levels, Wavelengths	E/T	170
Se^{21+}	Trans. prob., Oscill. Strengths	Th	206
Se^{32+}	Energy Levels, Wavelengths	Th	316
Se^{24+}	Energy Levels, Wavelengths	E/T	458
Se^{4+}	Trans. prob., Oscill. Strengths	Th	529
Se^{-}	Energy Levels, Wavelengths	Th	670
Br	Energy Levels, Wavelengths	Exp	168
Br^{23+}	Trans. prob., Oscill. Strengths	Th	217
Br^{33+}	Energy Levels, Wavelengths	Th	316
Br^{-}	Energy Levels, Wavelengths	E/T	391
Br	Energy Levels, Wavelengths	E/T	391
Br^{0+-4+}	Energy Levels, Wavelengths	E/T	391
Br^{5+}	Trans. prob., Oscill. Strengths	Th	529
Br^{33+}	Trans. prob., Oscill. Strengths	E/T	531
Br	Trans. prob., Oscill. Strengths	Th	569
Br^{-}	Energy Levels, Wavelengths	Th	670
Kr	Energy Levels, Wavelengths	Th	14
Kr^{4+}	Energy Levels, Wavelengths	E/T	18
Kr	Energy Levels, Wavelengths	Exp	22
Kr	Energy Levels, Wavelengths	Th	28
Kr^{3+}	Energy Levels, Wavelengths	Exp	32
Kr^{3+}	Energy Levels, Wavelengths	Exp	33
Kr	Energy Levels, Wavelengths	Th	41
Kr^{33+}	Energy Levels, Wavelengths	Th	49
Kr^{23+}	Energy Levels, Wavelengths	Th	55
Kr^{6+}	Energy Levels, Wavelengths	Th	91
Kr^{31+}	Energy Levels, Wavelengths	Th	96
Kr$^{28+-30+}$	Energy Levels, Wavelengths	Exp	134
Kr^{32+}	Energy Levels, Wavelengths	Exp	134

Kr^{34+}	Energy Levels, Wavelengths	Th	141
Kr^{3+}	Energy Levels, Wavelengths	Exp	147
Kr^{3+}	Energy Levels, Wavelengths	Exp	148
Kr^{3+}	Energy Levels, Wavelengths	Exp	153
Kr	Energy Levels, Wavelengths	Exp	155
Kr	Energy Levels, Wavelengths	Exp	168
Kr	Energy Levels, Wavelengths	Exp	176
Kr^{6+}	Trans. prob., Oscill. Strengths	Th	201
Kr^{23+}	Trans. prob., Oscill. Strengths	Th	206
Kr^{+}	Trans. prob., Oscill. Strengths	Exp	211
Kr^{31+}	Trans. prob., Oscill. Strengths	Th	230
Kr^{34+}	Trans. prob., Oscill. Strengths	Th	254
Kr^{32+}	Energy Levels, Wavelengths	Th	286
Kr^{5+}	Energy Levels, Wavelengths	E/T	296
Kr	Energy Levels, Wavelengths	Exp	321
Kr$^{26+-34+}$	Energy Levels, Wavelengths	Th	341
Kr^{18+}	Energy Levels, Wavelengths	Th	361
Kr	Energy Levels, Wavelengths	Exp	373
Kr	Energy Levels, Wavelengths	Th	402
Kr	Energy Levels, Wavelengths	Th	417
Kr^{7+-9+}	Energy Levels, Wavelengths	Exp	453
Kr^{8+}	Energy Levels, Wavelengths	E/T	458
Kr	Energy Levels, Wavelengths	Exp	486
Kr^{6+}	Trans. prob., Oscill. Strengths	Th	529
Kr$^{26+-34+}$	Trans. prob., Oscill. Strengths	Th	542
Kr^{+}	Energy Levels, Wavelengths	Exp	581
Kr^{4+}	Energy Levels, Wavelengths	E/T	611
Kr^{4+}	Energy Levels, Wavelengths	Th	625
Kr^{34+}	Energy Levels, Wavelengths	Th	634
Kr^{2+-3+}	Energy Levels, Wavelengths	Exp	650
Kr^{+}	Energy Levels, Wavelengths	Th	673
Kr^{+}	Energy Levels, Wavelengths	Exp	681
Kr^{27+}	Energy Levels, Wavelengths	Th	707
Kr^{+-4+}	Energy Levels, Wavelengths	E/T	713
Kr^{+}	Energy Levels, Wavelengths	Exp	728
Kr	Energy Levels, Wavelengths	Th	739
Kr^{34+}	Energy Levels, Wavelengths	Th	753
Kr	Trans. prob., Oscill. Strengths	Exp	784
Kr^{4+}	Trans. prob., Oscill. Strengths	Th	791
Kr^{4+}	Trans. prob., Oscill. Strengths	Th	805
Kr^{34+}	Trans. prob., Oscill. Strengths	Th	815
Kr	Trans. prob., Oscill. Strengths	E/T	830
Kr^{22+}	Trans. prob., Oscill. Strengths	E/T	835
Kr	Trans. prob., Oscill. Strengths	Th	874
Rb	Energy Levels, Wavelengths	Th	28
Rb	Energy Levels, Wavelengths	Th	45
Rb	Energy Levels, Wavelengths	Exp	168
Rb	Energy Levels, Wavelengths	E/T	170
Rb	Energy Levels, Wavelengths	E/T	172
Rb^{33+}	Trans. prob., Oscill. Strengths	Th	234
Rb	Energy Levels, Wavelengths	Th	292
Rb	Energy Levels, Wavelengths	Th	360
Rb	Energy Levels, Wavelengths	Th	400
Rb	Energy Levels, Wavelengths	Th	402
Rb	Energy Levels, Wavelengths	Th	411
Rb^{0+-1+}	Energy Levels, Wavelengths	Th	451
Rb^{27+}	Energy Levels, Wavelengths	E/T	458
Rb^{7+}	Trans. prob., Oscill. Strengths	Th	529
Rb^{35+}	Trans. prob., Oscill. Strengths	E/T	531

Rb	Energy Levels, Wavelengths	Th	663
Sr	Energy Levels, Wavelengths	Th	14
Sr	Energy Levels, Wavelengths	Th	28
Sr^{+}	Energy Levels, Wavelengths	Th	48
Sr^{+}	Energy Levels, Wavelengths	Exp	155
Sr-Rh^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Sr	Energy Levels, Wavelengths	E/T	172
Sr^{+}	Energy Levels, Wavelengths	E/T	172
Sr^{+}	Energy Levels, Wavelengths	Th	292
Sr	Energy Levels, Wavelengths	Th	402
Sr^{+}	Energy Levels, Wavelengths	Th	411
Sr	Energy Levels, Wavelengths	Th	451
Sr^{2+}	Energy Levels, Wavelengths	Th	451
Sr^{28+}	Energy Levels, Wavelengths	E/T	458
Sr^{+}	Energy Levels, Wavelengths	Exp	462
Sr^{8+}	Trans. prob., Oscill. Strengths	Th	529
Sr	Trans. prob., Oscill. Strengths	E/T	531
Sr^{37+}	Energy Levels, Wavelengths	Th	617
Sr^{+}	Energy Levels, Wavelengths	Exp	755
Y	Energy Levels, Wavelengths	E/T	172
Y^{+}	Energy Levels, Wavelengths	E/T	172
Y^{-}	Energy Levels, Wavelengths	Th	370
Y^{0+-1+}	Energy Levels, Wavelengths	Exp	416
Y^{11+}	Energy Levels, Wavelengths	E/T	458
Y^{29+}	Energy Levels, Wavelengths	E/T	458
Y^{9+}	Trans. prob., Oscill. Strengths	Th	529
Zr^{37+}	Energy Levels, Wavelengths	Th	49
Zr^{27+}	Energy Levels, Wavelengths	Th	55
Zr	Energy Levels, Wavelengths	Exp	168
Zr^{+}	Energy Levels, Wavelengths	Exp	168
Zr	Energy Levels, Wavelengths	E/T	172
Zr^{+}	Energy Levels, Wavelengths	E/T	172
Zr^{27+}	Trans. prob., Oscill. Strengths	Th	206
Zr	Energy Levels, Wavelengths	Th	402
Zr^{11+}	Energy Levels, Wavelengths	Th	402
Zr^{29+}	Energy Levels, Wavelengths	Th	402
Zr^{37+}	Energy Levels, Wavelengths	Th	402
Zr^{0+-1+}	Energy Levels, Wavelengths	Exp	416
Zr^{+}	Energy Levels, Wavelengths	E/T	443
Zr^{12+}	Energy Levels, Wavelengths	E/T	458
Zr^{30+}	Energy Levels, Wavelengths	E/T	458
Zr^{+}	Energy Levels, Wavelengths	Exp	479
Zr	Energy Levels, Wavelengths	Exp	505
Zr	Energy Levels, Wavelengths	Exp	508
Zr^{10+}	Trans. prob., Oscill. Strengths	Th	529
Zr^{39+}	Trans. prob., Oscill. Strengths	Th	551
Zr	Trans. prob., Oscill. Strengths	Exp	570
Zr^{39+}	Trans. prob., Oscill. Strengths	Th	579
Zr^{2+}	Energy Levels, Wavelengths	Th	712
Nb	Energy Levels, Wavelengths	E/T	172
Nb^{+}	Energy Levels, Wavelengths	E/T	172
Nb^{+}	Trans. prob., Oscill. Strengths	E/T	185
Nb^{2+}	Trans. prob., Oscill. Strengths	E/T	185
Nb^{11+}	Trans. prob., Oscill. Strengths	Th	201
Nb	Energy Levels, Wavelengths	Exp	359
Nb^{13+}	Energy Levels, Wavelengths	E/T	458
Nb^{31+}	Energy Levels, Wavelengths	E/T	458
Nb^{31+}	Energy Levels, Wavelengths	Exp	496
Nb	Trans. prob., Oscill. Strengths	E/T	516

Nb^{11+}	Trans. prob., Oscill. Strengths	Th	529
Nb^{39+}	Trans. prob., Oscill. Strengths	E/T	531
Mo^{29+}	Energy Levels, Wavelengths	Th	55
Mo^{39+}	Energy Levels, Wavelengths	Th	80
Mo^{5+}	Energy Levels, Wavelengths	E/T	87
Mo^{37+}	Energy Levels, Wavelengths	Th	96
Mo$^{23+-27+}$	Energy Levels, Wavelengths	Exp	152
Mo	Energy Levels, Wavelengths	E/T	172
Mo^{+}	Energy Levels, Wavelengths	E/T	172
Mo^{12+}	Trans. prob., Oscill. Strengths	Th	201
Mo^{29+}	Trans. prob., Oscill. Strengths	Th	206
Mo^{39+}	Trans. prob., Oscill. Strengths	Th	214
Mo^{+}	Trans. prob., Oscill. Strengths	E/T	219
Mo^{5+}	Trans. prob., Oscill. Strengths	Th	224
Mo^{37+}	Trans. prob., Oscill. Strengths	Th	230
Mo	Energy Levels, Wavelengths	Exp	307
Mo^{37+}	Energy Levels, Wavelengths	Th	348
Mo^{24+}	Energy Levels, Wavelengths	Th	361
Mo^{14+}	Energy Levels, Wavelengths	E/T	458
Mo^{32+}	Energy Levels, Wavelengths	E/T	458
Mo^{12+}	Trans. prob., Oscill. Strengths	Th	529
Mo^{37+}	Trans. prob., Oscill. Strengths	Th	546
Mo^{5+}	Trans. prob., Oscill. Strengths	Th	556
Mo^{10+}	Energy Levels, Wavelengths	Th	625
Mo^{38+}	Energy Levels, Wavelengths	Th	632
Mo^{39+}	Energy Levels, Wavelengths	Th	662
Mo^{38+}	Energy Levels, Wavelengths	Th	718
Mo^{10+}	Trans. prob., Oscill. Strengths	Th	805
Mo^{38+}	Trans. prob., Oscill. Strengths	Th	811
Mo^{+}	Trans. prob., Oscill. Strengths	E/T	831
Mo^{39+}	Trans. prob., Oscill. Strengths	Th	834
Tc^{+}	Energy Levels, Wavelengths	E/T	151
Tc	Energy Levels, Wavelengths	E/T	172
Tc^{+}	Energy Levels, Wavelengths	E/T	172
Tc^{+}	Trans. prob., Oscill. Strengths	Th	267
Tc^{41+}	Trans. prob., Oscill. Strengths	E/T	531
Ru	Energy Levels, Wavelengths	Exp	168
Ru^{-}	Energy Levels, Wavelengths	Th	370
Rh^{41+}	Trans. prob., Oscill. Strengths	Th	234
Pd	Energy Levels, Wavelengths	Th	14
Pd-Te	Energy Levels, Wavelengths	E/T	170
Pd	Energy Levels, Wavelengths	Exp	416
Pd^{18+}	Energy Levels, Wavelengths	E/T	458
Pd^{44+}	Energy Levels, Wavelengths	Th	753
Ag^{44+}	Energy Levels, Wavelengths	Th	49
Ag^{35+}	Trans. prob., Oscill. Strengths	Th	217
Ag^{-}	Energy Levels, Wavelengths	Th	370
Ag	Energy Levels, Wavelengths	Exp	371
Ag	Energy Levels, Wavelengths	Th	402
Ag^{19+}	Energy Levels, Wavelengths	E/T	458
Ag^{19+}	Energy Levels, Wavelengths	Exp	468
Ag^{45+}	Trans. prob., Oscill. Strengths	E/T	531
Cd	Energy Levels, Wavelengths	Th	14
Cd	Energy Levels, Wavelengths	Exp	155
Cd^{30+}	Energy Levels, Wavelengths	Th	361
Cd	Energy Levels, Wavelengths	Th	402
Cd^{20+}	Energy Levels, Wavelengths	E/T	458
Cd^{+}	Trans. prob., Oscill. Strengths	Th	535
Cd^{+}	Energy Levels, Wavelengths	Exp	681

Cd^{24+}	Energy Levels, Wavelengths	Th	691
In^{+}	Energy Levels, Wavelengths	Exp	155
In	Energy Levels, Wavelengths	Exp	168
In	Energy Levels, Wavelengths	E/T	172
In	Energy Levels, Wavelengths	Th	395
In	Energy Levels, Wavelengths	Th	402
In^{21+}	Energy Levels, Wavelengths	E/T	458
In^{19+}	Trans. prob., Oscill. Strengths	Th	529
In-I	Energy Levels, Wavelengths	Th	656
In^{-}	Energy Levels, Wavelengths	Th	670
Sn^{47+}	Energy Levels, Wavelengths	Th	49
Sn^{5+-12+}	Energy Levels, Wavelengths	Th	143
Sn-I$^{13+-15+}$	Energy Levels, Wavelengths	Exp	166
Sn^{+}	Energy Levels, Wavelengths	E/T	170
Sn^{+}	Energy Levels, Wavelengths	E/T	272
Sn^{18+}	Energy Levels, Wavelengths	Exp	284
Sn$^{18+-21+}$	Energy Levels, Wavelengths	Exp	284
Sn^{19+}	Energy Levels, Wavelengths	Exp	284
Sn	Energy Levels, Wavelengths	Th	402
Sn^{21+}	Energy Levels, Wavelengths	Th	402
Sn^{39+}	Energy Levels, Wavelengths	Th	402
Sn^{47+}	Energy Levels, Wavelengths	Th	402
Sn^{22+}	Energy Levels, Wavelengths	E/T	458
Sn^{18+}	Energy Levels, Wavelengths	Th	625
Sn^{-}	Energy Levels, Wavelengths	Th	670
Sn$^{14+-17+}$	Energy Levels, Wavelengths	Exp	700
Sn^{18+}	Trans. prob., Oscill. Strengths	Th	805
Sn^{+}	Trans. prob., Oscill. Strengths	Th	853
Te^{49+}	Energy Levels, Wavelengths	Th	49
Te	Energy Levels, Wavelengths	Exp	168
Te^{24+}	Energy Levels, Wavelengths	E/T	458
Te^{-}	Energy Levels, Wavelengths	Th	670
I	Energy Levels, Wavelengths	Exp	168
I^{+}	Energy Levels, Wavelengths	Exp	168
I^{41+}	Trans. prob., Oscill. Strengths	Th	217
I^{-}	Energy Levels, Wavelengths	E/T	391
I	Energy Levels, Wavelengths	E/T	391
I^{0+-4+}	Energy Levels, Wavelengths	E/T	391
I	Trans. prob., Oscill. Strengths	Th	569
I^{-}	Energy Levels, Wavelengths	Th	670
Xe	Energy Levels, Wavelengths	Th	14
Xe	Energy Levels, Wavelengths	Th	28
Xe$^{45+-49+}$	Energy Levels, Wavelengths	Th	29
Xe	Energy Levels, Wavelengths	Th	41
Xe^{51+}	Energy Levels, Wavelengths	Th	49
Xe	Energy Levels, Wavelengths	E/T	50
Xe^{41+}	Energy Levels, Wavelengths	Th	55
Xe	Energy Levels, Wavelengths	E/T	70
Xe^{0+-1+}	Energy Levels, Wavelengths	E/T	70
Xe^{49+}	Energy Levels, Wavelengths	Th	96
Xe^{43+}	Energy Levels, Wavelengths	Exp	103
Xe$^{46+-52+}$	Energy Levels, Wavelengths	Exp	105
Xe$^{49+-53+}$	Energy Levels, Wavelengths	Exp	107
Xe^{52+}	Energy Levels, Wavelengths	Exp	119
Xe^{53+}	Energy Levels, Wavelengths	Exp	119
Xe^{4+}	Energy Levels, Wavelengths	E/T	142
Xe^{50+}	Energy Levels, Wavelengths	Exp	162
Xe	Energy Levels, Wavelengths	Exp	168
Xe	Energy Levels, Wavelengths	Exp	176

Xe$^{45+-49+}$	Trans. prob., Oscill. Strengths	Th	198
Xe^{41+}	Trans. prob., Oscill. Strengths	Th	206
Xe^{49+}	Trans. prob., Oscill. Strengths	Th	230
Xe^{50+}	Trans. prob., Oscill. Strengths	Th	234
Xe^{4+}	Trans. prob., Oscill. Strengths	Th	256
Xe^{+}	Energy Levels, Wavelengths	Exp	279
Xe$^{22+-25+}$	Energy Levels, Wavelengths	Exp	284
Xe^{9+}	Energy Levels, Wavelengths	Exp	288
Xe^{53+}	Energy Levels, Wavelengths	Exp	297
Xe	Energy Levels, Wavelengths	Exp	318
Xe^{6+-8+}	Energy Levels, Wavelengths	Exp	322
Xe^{24+}	Energy Levels, Wavelengths	Exp	351
Xe$^{38+-43+}$	Energy Levels, Wavelengths	Exp	351
Xe	Energy Levels, Wavelengths	Th	354
Xe^{8+}	Energy Levels, Wavelengths	E/T	375
Xe^{+}	Energy Levels, Wavelengths	Exp	383
Xe	Energy Levels, Wavelengths	Th	402
Xe$^{46+-52+}$	Energy Levels, Wavelengths	Exp	407
Xe^{+}	Energy Levels, Wavelengths	Th	408
Xe^{2+-6+}	Energy Levels, Wavelengths	E/T	418
Xe^{9+-11+}	Energy Levels, Wavelengths	Exp	453
Xe^{26+}	Energy Levels, Wavelengths	E/T	458
Xe^{+}	Trans. prob., Oscill. Strengths	Exp	511
Xe^{24+}	Trans. prob., Oscill. Strengths	Th	529
Xe^{8+}	Trans. prob., Oscill. Strengths	Th	557
Xe	Trans. prob., Oscill. Strengths	Th	562
Xe^{53+}	Trans. prob., Oscill. Strengths	Th	577
Xe	Trans. prob., Oscill. Strengths	Th	578
Xe^{22+}	Energy Levels, Wavelengths	Th	625
Xe$^{16+-17+}$	Energy Levels, Wavelengths	E/T	643
Xe$^{16+-20+}$	Energy Levels, Wavelengths	E/T	643
Xe$^{18+-20+}$	Energy Levels, Wavelengths	E/T	643
Xe^{-}	Energy Levels, Wavelengths	Th	661
Xe^{26+}	Energy Levels, Wavelengths	Exp	666
Xe$^{26+-43+}$	Energy Levels, Wavelengths	Exp	666
Xe$^{30+-41+}$	Energy Levels, Wavelengths	Exp	666
Xe^{43+}	Energy Levels, Wavelengths	Exp	666
Xe^{+}	Energy Levels, Wavelengths	Th	673
Xe$^{46+-52+}$	Energy Levels, Wavelengths	Th	686
Xe$^{16+-20+}$	Energy Levels, Wavelengths	Exp	700
Xe^{+}	Energy Levels, Wavelengths	Exp	728
Xe^{22+}	Trans. prob., Oscill. Strengths	Th	805
Xe	Trans. prob., Oscill. Strengths	Th	812
Xe	Trans. prob., Oscill. Strengths	Th	825
Xe	Trans. prob., Oscill. Strengths	E/T	830
Xe^{8+}	Trans. prob., Oscill. Strengths	Th	863
Cs	Energy Levels, Wavelengths	Th	28
Cs	Energy Levels, Wavelengths	Th	45
Cs	Energy Levels, Wavelengths	Th	118
Cs	Energy Levels, Wavelengths	Th	157
Cs-W$^{13+-15+}$	Energy Levels, Wavelengths	Exp	166
Cs	Energy Levels, Wavelengths	Exp	168
Cs	Energy Levels, Wavelengths	E/T	170
Cs	Energy Levels, Wavelengths	E/T	172
Cs	Energy Levels, Wavelengths	Th	292
Cs	Energy Levels, Wavelengths	Th	360
Cs	Energy Levels, Wavelengths	Th	400
Cs	Energy Levels, Wavelengths	Th	402
Cs	Energy Levels, Wavelengths	Th	411

Cs	Energy Levels, Wavelengths	Th	663
Ba	Energy Levels, Wavelengths	Th	14
Ba	Energy Levels, Wavelengths	Th	28
Ba^{+}	Energy Levels, Wavelengths	Th	48
Ba	Energy Levels, Wavelengths	Exp	168
Ba^{+}	Energy Levels, Wavelengths	Exp	168
Ba^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Ba	Energy Levels, Wavelengths	E/T	172
Ba^{+}	Energy Levels, Wavelengths	E/T	172
Ba^{11+}	Energy Levels, Wavelengths	Exp	288
Ba^{+}	Energy Levels, Wavelengths	Th	292
Ba	Energy Levels, Wavelengths	Th	402
Ba^{+}	Energy Levels, Wavelengths	Th	411
Ba^{+}	Trans. prob., Oscill. Strengths	Th	535
Ba^{54+}	Energy Levels, Wavelengths	Th	753
La^{2+}	Energy Levels, Wavelengths	Exp	168
La^{0+-2+}	Energy Levels, Wavelengths	E/T	170
La	Energy Levels, Wavelengths	E/T	172
La^{+}	Energy Levels, Wavelengths	E/T	172
La^{29+}	Energy Levels, Wavelengths	E/T	458
Ce^{56+}	Energy Levels, Wavelengths	Th	104
Ce^{0+-2+}	Energy Levels, Wavelengths	Exp	168
Ce^{+-2+}	Energy Levels, Wavelengths	E/T	170
Ce^{30+}	Energy Levels, Wavelengths	E/T	458
Ce^{-}	Energy Levels, Wavelengths	Th	661
Pr^{56+}	Energy Levels, Wavelengths	Th	80
Pr^{+}	Energy Levels, Wavelengths	Th	93
Pr^{2+}	Energy Levels, Wavelengths	Exp	168
Pr^{+}	Energy Levels, Wavelengths	E/T	170
Pr^{56+}	Trans. prob., Oscill. Strengths	Th	214
Pr^{47+}	Trans. prob., Oscill. Strengths	Th	217
Pr^{31+}	Energy Levels, Wavelengths	E/T	458
Nd^{57+}	Energy Levels, Wavelengths	Th	49
Nd^{58+}	Energy Levels, Wavelengths	Th	104
Nd	Energy Levels, Wavelengths	Exp	168
Nd^{+}	Energy Levels, Wavelengths	Exp	168
Nd^{+}	Energy Levels, Wavelengths	E/T	170
Nd	Energy Levels, Wavelengths	Th	402
Nd^{31+}	Energy Levels, Wavelengths	Th	402
Nd^{57+}	Energy Levels, Wavelengths	Th	402
Nd^{32+}	Energy Levels, Wavelengths	E/T	458
Nd^{32+}	Energy Levels, Wavelengths	Exp	468
Nd^{59+}	Energy Levels, Wavelengths	Th	617
Nd^{57+}	Energy Levels, Wavelengths	Th	635
Nd^{56+}	Energy Levels, Wavelengths	Th	718
Pm^{+}	Energy Levels, Wavelengths	E/T	151
Pm^{+}	Trans. prob., Oscill. Strengths	Th	267
Sm	Energy Levels, Wavelengths	Exp	168
Sm^{+}	Energy Levels, Wavelengths	Exp	168
Sm-Gd^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Sm^{34+}	Energy Levels, Wavelengths	E/T	458
Sm^{34+}	Energy Levels, Wavelengths	Exp	468
Sm^{61+}	Energy Levels, Wavelengths	Th	617
Sm^{58+}	Energy Levels, Wavelengths	Th	632
Sm^{58+}	Trans. prob., Oscill. Strengths	Th	811
Eu^{58+}	Energy Levels, Wavelengths	Th	96
Eu^{58+}	Trans. prob., Oscill. Strengths	Th	230
Eu^{+}	Energy Levels, Wavelengths	Exp	416
Eu^{35+}	Energy Levels, Wavelengths	E/T	458

Eu$^{14+-15+}$	Energy Levels, Wavelengths	Th	636
Gd^{62+}	Energy Levels, Wavelengths	Th	43
Gd^{62+}	Energy Levels, Wavelengths	Th	104
Gd^{0+-2+}	Energy Levels, Wavelengths	Exp	168
Gd^{52+}	Trans. prob., Oscill. Strengths	Th	217
Gd^{36+}	Energy Levels, Wavelengths	E/T	458
Gd^{36+}	Energy Levels, Wavelengths	Exp	468
Gd^{62+}	Trans. prob., Oscill. Strengths	E/T	531
Tb	Energy Levels, Wavelengths	Exp	168
Tb^{37+}	Energy Levels, Wavelengths	E/T	458
Tb^{37+}	Energy Levels, Wavelengths	Exp	468
Dy	Energy Levels, Wavelengths	Exp	168
Dy^{+}	Energy Levels, Wavelengths	Exp	168
Dy^{38+}	Energy Levels, Wavelengths	E/T	458
Dy^{36+}	Trans. prob., Oscill. Strengths	Th	529
Dy^{64+}	Energy Levels, Wavelengths	Th	753
Ho^{39+}	Energy Levels, Wavelengths	E/T	458
Tm^{66+}	Energy Levels, Wavelengths	Th	118
Tm	Energy Levels, Wavelengths	Exp	168
Tm^{+}	Energy Levels, Wavelengths	Exp	168
Tm-Hf^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Tm^{41+}	Energy Levels, Wavelengths	Th	691
Yb	Energy Levels, Wavelengths	Th	14
Yb^{+}	Energy Levels, Wavelengths	Exp	155
Yb	Energy Levels, Wavelengths	Exp	168
Yb^{+}	Energy Levels, Wavelengths	Exp	168
Yb^{58+}	Trans. prob., Oscill. Strengths	Th	217
Yb^{40+}	Energy Levels, Wavelengths	E/T	306
Yb^{40+}	Energy Levels, Wavelengths	Th	356
Yb^{+}	Energy Levels, Wavelengths	Th	400
Yb	Energy Levels, Wavelengths	Th	402
Yb^{41+}	Energy Levels, Wavelengths	Th	402
Yb^{67+}	Energy Levels, Wavelengths	Th	402
Yb	Energy Levels, Wavelengths	Exp	416
Yb^{42+}	Energy Levels, Wavelengths	E/T	458
Yb^{42+}	Energy Levels, Wavelengths	Exp	468
Yb	Trans. prob., Oscill. Strengths	E/T	531
Yb^{40+}	Trans. prob., Oscill. Strengths	Th	550
Yb	Trans. prob., Oscill. Strengths	Th	578
Yb^{67+}	Energy Levels, Wavelengths	Th	635
Lu	Energy Levels, Wavelengths	Exp	168
Lu^{59+}	Trans. prob., Oscill. Strengths	Th	217
Hf	Energy Levels, Wavelengths	Exp	168
Hf^{+}	Energy Levels, Wavelengths	Exp	168
Hf^{+}	Energy Levels, Wavelengths	E/T	172
Hf^{14+}	Energy Levels, Wavelengths	E/T	458
Hf^{14+}	Energy Levels, Wavelengths	Exp	468
Hf^{12+}	Energy Levels, Wavelengths	Th	631
Hf^{2+}	Energy Levels, Wavelengths	Th	712
Hf^{12+}	Trans. prob., Oscill. Strengths	Th	809
Ta^{0+-2+}	Energy Levels, Wavelengths	Th	93
Ta	Energy Levels, Wavelengths	E/T	170
Ta^{45+}	Energy Levels, Wavelengths	E/T	458
Ta^{45+}	Energy Levels, Wavelengths	Exp	468
Ta^{+}	Energy Levels, Wavelengths	E/T	638
Ta^{4+}	Energy Levels, Wavelengths	Th	712
W^{24+}	Energy Levels, Wavelengths	Th	40
W$^{55+-64+}$	Energy Levels, Wavelengths	Exp	44
W$^{44+-47+}$	Energy Levels, Wavelengths	Exp	57

$W^{29+-37+}$	Energy Levels, Wavelengths	E/T	60
W^{46+}	Energy Levels, Wavelengths	Exp	61
W^{-}	Energy Levels, Wavelengths	Exp	66
$W^{14+-37+}$	Energy Levels, Wavelengths	E/T	75
$W^{47+-48+}$	Energy Levels, Wavelengths	Exp	78
$W^{60+-63+}$	Energy Levels, Wavelengths	Exp	78
W^{5+-7+}	Energy Levels, Wavelengths	Exp	79
W^{71+}	Energy Levels, Wavelengths	Th	80
W^{4+}	Energy Levels, Wavelengths	Th	85
W^{27+}	Energy Levels, Wavelengths	Th	85
W^{44+}	Energy Levels, Wavelengths	Th	85
W^{54+}	Energy Levels, Wavelengths	Th	85
W^{61+}	Energy Levels, Wavelengths	Th	85
W^{62+}	Energy Levels, Wavelengths	Th	85
W^{69+}	Energy Levels, Wavelengths	Th	85
W^{70+}	Energy Levels, Wavelengths	Th	85
W	Energy Levels, Wavelengths	E/T	92
W^{+-2+}	Energy Levels, Wavelengths	Th	93
W^{69+}	Energy Levels, Wavelengths	Th	96
W^{63+}	Energy Levels, Wavelengths	Exp	103
$W^{42+-51+}$	Energy Levels, Wavelengths	E/T	106
W^{46+}	Energy Levels, Wavelengths	E/T	106
W^{61+}	Energy Levels, Wavelengths	E/T	106
$W^{62+-71+}$	Energy Levels, Wavelengths	E/T	106
W^{63+}	Energy Levels, Wavelengths	Th	121
$W^{65+-71+}$	Energy Levels, Wavelengths	Exp	133
$W^{29+-37+}$	Energy Levels, Wavelengths	Th	143
$W^{21+-25+}$	Energy Levels, Wavelengths	Exp	152
$W^{27+-29+}$	Energy Levels, Wavelengths	Exp	152
W	Energy Levels, Wavelengths	Exp	168
W^{0+-1+}	Energy Levels, Wavelengths	E/T	170
W	Energy Levels, Wavelengths	E/T	172
W^{24+}	Trans. prob., Oscill. Strengths	Th	203
$W^{29+-37+}$	Trans. prob., Oscill. Strengths	Th	208
W^{0+-2+}	Trans. prob., Oscill. Strengths	E/T	213
W^{71+}	Trans. prob., Oscill. Strengths	Th	214
W^{+}	Trans. prob., Oscill. Strengths	Th	220
W^{4+}	Trans. prob., Oscill. Strengths	Th	222
W^{27+}	Trans. prob., Oscill. Strengths	Th	222
W^{44+}	Trans. prob., Oscill. Strengths	Th	222
W^{54+}	Trans. prob., Oscill. Strengths	Th	222
W^{61+}	Trans. prob., Oscill. Strengths	Th	222
W^{62+}	Trans. prob., Oscill. Strengths	Th	222
W^{69+}	Trans. prob., Oscill. Strengths	Th	222
W^{70+}	Trans. prob., Oscill. Strengths	Th	222
W	Trans. prob., Oscill. Strengths	Th	229
W^{69+}	Trans. prob., Oscill. Strengths	Th	230
W^{63+}	Trans. prob., Oscill. Strengths	Th	244
$W^{65+-71+}$	Trans. prob., Oscill. Strengths	Th	249
W^{26+}	Energy Levels, Wavelengths	Exp	270
W^{26+}	Energy Levels, Wavelengths	Exp	287
W^{7+-8+}	Energy Levels, Wavelengths	Th	301
W^{44+}	Energy Levels, Wavelengths	E/T	306
W	Energy Levels, Wavelengths	Exp	307
$W^{42+-47+}$	Energy Levels, Wavelengths	Exp	308
$W^{21+-22+}$	Energy Levels, Wavelengths	Exp	309
$W^{24+-25+}$	Energy Levels, Wavelengths	Exp	309
$W^{27+-29+}$	Energy Levels, Wavelengths	Exp	309
$W^{65+-71+}$	Energy Levels, Wavelengths	Exp	309

W^{62+}	Energy Levels, Wavelengths	Th	310
W^{63+}	Energy Levels, Wavelengths	Th	310
W^{71+}	Energy Levels, Wavelengths	Th	310
$W^{64+-71+}$	Energy Levels, Wavelengths	Exp	311
$W^{66+-71+}$	Energy Levels, Wavelengths	Exp	311
W^{13+}	Energy Levels, Wavelengths	Exp	312
W^{28+}	Energy Levels, Wavelengths	Exp	312
$W^{40+-71+}$	Energy Levels, Wavelengths	Exp	312
W^{27+}	Energy Levels, Wavelengths	Th	324
W^{43+}	Energy Levels, Wavelengths	Th	324
W^{44+}	Energy Levels, Wavelengths	Th	324
W^{45+}	Energy Levels, Wavelengths	Th	324
W^{61+}	Energy Levels, Wavelengths	Th	324
W^{62+}	Energy Levels, Wavelengths	Th	324
W^{63+}	Energy Levels, Wavelengths	Th	324
W^{69+}	Energy Levels, Wavelengths	Th	324
W^{70+}	Energy Levels, Wavelengths	Th	324
W^{71+}	Energy Levels, Wavelengths	Th	324
W^{56+}	Energy Levels, Wavelengths	Th	326
W^{60+}	Energy Levels, Wavelengths	Th	326
$W^{61+-64+}$	Energy Levels, Wavelengths	Th	326
W^{6+}	Energy Levels, Wavelengths	Th	327
W^{37+}	Energy Levels, Wavelengths	Th	330
$W^{47+-55+}$	Energy Levels, Wavelengths	Exp	339
W^{24+}	Energy Levels, Wavelengths	Th	340
$W^{41+-45+}$	Energy Levels, Wavelengths	Exp	351
W^{44+}	Energy Levels, Wavelengths	Th	356
$W^{47+-61+}$	Energy Levels, Wavelengths	Th	362
W^{7+-27+}	Energy Levels, Wavelengths	E/T	364
$W^{17+-18+}$	Energy Levels, Wavelengths	E/T	366
W	Energy Levels, Wavelengths	Th	368
W^{26+}	Energy Levels, Wavelengths	Th	369
W^{27+}	Energy Levels, Wavelengths	Th	376
W^{46+}	Energy Levels, Wavelengths	E/T	458
W^{61+}	Trans. prob., Oscill. Strengths	Th	533
W^{62+}	Trans. prob., Oscill. Strengths	Th	533
W^{6+}	Trans. prob., Oscill. Strengths	Th	534
$W^{47+-55+}$	Trans. prob., Oscill. Strengths	Th	540
W^{24+}	Trans. prob., Oscill. Strengths	Th	541
W^{44+}	Trans. prob., Oscill. Strengths	Th	550
$W^{47+-61+}$	Trans. prob., Oscill. Strengths	Th	553
W	Trans. prob., Oscill. Strengths	Th	554
W^{26+}	Trans. prob., Oscill. Strengths	Th	555
W^{27+}	Trans. prob., Oscill. Strengths	Th	558
W^{7+-27+}	Energy Levels, Wavelengths	E/T	582
$W^{19+-33+}$	Energy Levels, Wavelengths	Exp	584
$W^{23+-30+}$	Energy Levels, Wavelengths	Exp	584
W^{26+}	Energy Levels, Wavelengths	Exp	584
$W^{41+-45+}$	Energy Levels, Wavelengths	Exp	584
W^{37+}	Energy Levels, Wavelengths	Th	622
W^{24+}	Energy Levels, Wavelengths	Th	624
$W^{29+-37+}$	Energy Levels, Wavelengths	Th	626
W^{26+}	Energy Levels, Wavelengths	Exp	628
$W^{26+-33+}$	Energy Levels, Wavelengths	Exp	628
W^{27+}	Energy Levels, Wavelengths	E/T	629
W^{14+}	Energy Levels, Wavelengths	Th	631
W^{5+}	Energy Levels, Wavelengths	Th	636
W^{11+}	Energy Levels, Wavelengths	Th	636
W^{13+}	Energy Levels, Wavelengths	Th	636

W^{27+}	Energy Levels, Wavelengths	Th	636
W^{45+}	Energy Levels, Wavelengths	Th	636
W^{65+}	Energy Levels, Wavelengths	Th	636
W^{73+}	Energy Levels, Wavelengths	Th	636
W$^{62+-66+}$	Energy Levels, Wavelengths	E/T	639
W^{37+}	Energy Levels, Wavelengths	Th	646
W^{5+}	Energy Levels, Wavelengths	Th	649
W^{64+}	Energy Levels, Wavelengths	Exp	655
W^{71+}	Energy Levels, Wavelengths	Th	662
W^{4+}	Energy Levels, Wavelengths	Th	674
W^{4+-5+}	Energy Levels, Wavelengths	Th	674
W^{4+}	Energy Levels, Wavelengths	Th	676
W$^{29+-43+}$	Energy Levels, Wavelengths	Th	680
W^{6+}	Energy Levels, Wavelengths	Th	712
W^{29+}	Energy Levels, Wavelengths	Th	737
W^{36+}	Energy Levels, Wavelengths	Th	737
W^{37+}	Trans. prob., Oscill. Strengths	Th	801
W^{24+}	Trans. prob., Oscill. Strengths	Th	804
W$^{29+-37+}$	Trans. prob., Oscill. Strengths	Th	806
W^{14+}	Trans. prob., Oscill. Strengths	Th	809
W$^{44+-47+}$	Trans. prob., Oscill. Strengths	Th	816
W^{37+}	Trans. prob., Oscill. Strengths	Th	823
W^{5+}	Trans. prob., Oscill. Strengths	Th	826
W^{71+}	Trans. prob., Oscill. Strengths	Th	834
W^{4+}	Trans. prob., Oscill. Strengths	Th	838
W^{4+}	Trans. prob., Oscill. Strengths	Th	839
W^{5+}	Trans. prob., Oscill. Strengths	Th	843
W^{3+}	Trans. prob., Oscill. Strengths	Th	844
W$^{29+-43+}$	Trans. prob., Oscill. Strengths	Th	845
W^{+}	Trans. prob., Oscill. Strengths	Exp	869
W^{29+}	Trans. prob., Oscill. Strengths	Th	873
W^{36+}	Trans. prob., Oscill. Strengths	Th	873
Re^{0+-1+}	Energy Levels, Wavelengths	Th	93
Re	Energy Levels, Wavelengths	Exp	168
Re-Bi	Energy Levels, Wavelengths	E/T	170
Re	Energy Levels, Wavelengths	E/T	172
Re^{+}	Energy Levels, Wavelengths	E/T	172
Re	Energy Levels, Wavelengths	Th	444
Re^{+}	Energy Levels, Wavelengths	E/T	445
Re^{6+}	Energy Levels, Wavelengths	Th	712
Re	Trans. prob., Oscill. Strengths	Exp	840
Os^{0+-1+}	Energy Levels, Wavelengths	Th	93
Os^{46+}	Energy Levels, Wavelengths	E/T	306
Os^{46+}	Energy Levels, Wavelengths	Th	356
Os^{46+}	Trans. prob., Oscill. Strengths	Th	550
Os^{18+}	Energy Levels, Wavelengths	Th	614
Os^{18+}	Energy Levels, Wavelengths	Th	631
Os^{74+}	Energy Levels, Wavelengths	Th	753
Os^{18+}	Trans. prob., Oscill. Strengths	Th	794
Os^{18+}	Trans. prob., Oscill. Strengths	Th	809
Ir^{0+-1+}	Energy Levels, Wavelengths	Th	93
Ir$^{16+-17+}$	Energy Levels, Wavelengths	Th	301
Pt^{-}	Energy Levels, Wavelengths	Th	10
Pt^{66+}	Trans. prob., Oscill. Strengths	Th	217
Pt^{48+}	Energy Levels, Wavelengths	E/T	306
Pt^{-}	Energy Levels, Wavelengths	Th	370
Pt^{20+}	Energy Levels, Wavelengths	Th	631
Pt^{20+}	Trans. prob., Oscill. Strengths	Th	809
Au^{-}	Energy Levels, Wavelengths	Th	10

Au^{66+}	Energy Levels, Wavelengths	Th	55
Au^{69+}	Energy Levels, Wavelengths	Th	56
Au	Energy Levels, Wavelengths	Exp	59
Au$^{48+-50+}$	Energy Levels, Wavelengths	Th	69
Au^{0+-1+}	Energy Levels, Wavelengths	Th	93
Au$^{53+-69+}$	Energy Levels, Wavelengths	E/T	106
Au^{76+}	Energy Levels, Wavelengths	Th	118
Au^{66+}	Trans. prob., Oscill. Strengths	Th	206
Au	Trans. prob., Oscill. Strengths	Th	266
Au^{49+}	Energy Levels, Wavelengths	E/T	306
Au$^{45+-58+}$	Energy Levels, Wavelengths	Exp	319
Au^{74+}	Energy Levels, Wavelengths	Th	348
Au^{49+}	Energy Levels, Wavelengths	Th	356
Au^{-}	Energy Levels, Wavelengths	Th	370
Au	Energy Levels, Wavelengths	Exp	371
Au$^{41+-53+}$	Energy Levels, Wavelengths	E/T	378
Au$^{42+-52+}$	Energy Levels, Wavelengths	E/T	378
Au^{50+}	Energy Levels, Wavelengths	Th	398
Au	Energy Levels, Wavelengths	Th	402
Au^{77+}	Energy Levels, Wavelengths	Exp	404
Au^{78+}	Energy Levels, Wavelengths	Exp	404
Au^{51+}	Energy Levels, Wavelengths	Th	419
Au^{68+}	Energy Levels, Wavelengths	Th	424
Au^{69+}	Energy Levels, Wavelengths	Th	424
Au^{51+}	Energy Levels, Wavelengths	E/T	458
Au^{77+}	Trans. prob., Oscill. Strengths	E/T	531
Au^{74+}	Trans. prob., Oscill. Strengths	Th	546
Au^{49+}	Trans. prob., Oscill. Strengths	Th	550
Au^{52+}	Energy Levels, Wavelengths	E/T	585
Au^{60+}	Energy Levels, Wavelengths	E/T	585
Au^{21+}	Energy Levels, Wavelengths	Th	614
Au	Energy Levels, Wavelengths	Exp	698
Au$^{48+-50+}$	Energy Levels, Wavelengths	Th	724
Au^{66+}	Energy Levels, Wavelengths	Th	724
Au^{67+}	Energy Levels, Wavelengths	Th	724
Au^{68+}	Energy Levels, Wavelengths	Th	724
Au^{74+}	Energy Levels, Wavelengths	Th	724
Au^{75+}	Energy Levels, Wavelengths	Th	724
Au^{76+}	Energy Levels, Wavelengths	Th	724
Au^{69+}	Energy Levels, Wavelengths	Th	726
Au^{21+}	Trans. prob., Oscill. Strengths	Th	794
Au^{66+}	Trans. prob., Oscill. Strengths	Th	868
Au^{67+}	Trans. prob., Oscill. Strengths	Th	868
Au^{69+}	Trans. prob., Oscill. Strengths	Th	870
Hg	Energy Levels, Wavelengths	Th	14
Hg^{77+}	Energy Levels, Wavelengths	Th	80
Hg^{75+}	Energy Levels, Wavelengths	Th	96
Hg	Energy Levels, Wavelengths	Th	118
Hg	Energy Levels, Wavelengths	Exp	155
Hg^{0+-1+}	Energy Levels, Wavelengths	Exp	155
Hg^{+}	Energy Levels, Wavelengths	Exp	155
Hg	Energy Levels, Wavelengths	Exp	168
Hg^{75+}	Trans. prob., Oscill. Strengths	Th	230
Hg	Energy Levels, Wavelengths	E/T	271
Hg^{+}	Energy Levels, Wavelengths	Th	400
Hg	Energy Levels, Wavelengths	Th	402
Hg^{69+}	Energy Levels, Wavelengths	Th	402
Hg^{77+}	Energy Levels, Wavelengths	Th	402
Hg	Trans. prob., Oscill. Strengths	Th	578

Hg^{22+}	Energy Levels, Wavelengths	Th	631
Hg^{77+}	Energy Levels, Wavelengths	Th	635
Hg^{+}	Energy Levels, Wavelengths	Exp	681
Hg^{2+-3+}	Energy Levels, Wavelengths	Th	712
Hg^{3+}	Energy Levels, Wavelengths	Th	712
Hg^{22+}	Trans. prob., Oscill. Strengths	Th	809
Hg	Trans. prob., Oscill. Strengths	Th	812
Tl	Energy Levels, Wavelengths	Th	395
Tl	Energy Levels, Wavelengths	Th	402
Tl-At	Energy Levels, Wavelengths	Th	656
Tl^{-}	Energy Levels, Wavelengths	Th	670
Tl^{+}	Energy Levels, Wavelengths	Exp	681
Pb	Energy Levels, Wavelengths	Th	93
Pb^{75+}	Energy Levels, Wavelengths	E/T	97
Pb	Energy Levels, Wavelengths	Exp	168
Pb^{50+}	Energy Levels, Wavelengths	Exp	168
Pb^{52+}	Energy Levels, Wavelengths	E/T	306
Pb^{52+}	Energy Levels, Wavelengths	Th	356
Pb^{52+}	Trans. prob., Oscill. Strengths	Th	550
Pb^{24+}	Energy Levels, Wavelengths	Th	631
Pb^{-}	Energy Levels, Wavelengths	Th	670
Pb	Energy Levels, Wavelengths	Exp	698
Pb^{80+}	Energy Levels, Wavelengths	Th	753
Pb^{24+}	Trans. prob., Oscill. Strengths	Th	809
Bi^{+}	Energy Levels, Wavelengths	Th	93
Bi$^{74+-80+}$	Energy Levels, Wavelengths	E/T	106
Bi^{82+}	Energy Levels, Wavelengths	Exp	297
Bi^{53+}	Energy Levels, Wavelengths	E/T	306
Bi^{53+}	Energy Levels, Wavelengths	Th	356
Bi^{53+}	Trans. prob., Oscill. Strengths	Th	550
Bi^{25+}	Energy Levels, Wavelengths	Th	614
Bi^{80+}	Energy Levels, Wavelengths	Th	635
Bi	Energy Levels, Wavelengths	Exp	698
Bi^{79+}	Energy Levels, Wavelengths	Th	718
Bi^{25+}	Trans. prob., Oscill. Strengths	Th	794
Po^{26+}	Energy Levels, Wavelengths	Th	631
Po^{-}	Energy Levels, Wavelengths	Th	670
Po^{26+}	Trans. prob., Oscill. Strengths	Th	809
At^{-}	Energy Levels, Wavelengths	E/T	391
At	Energy Levels, Wavelengths	E/T	391
At^{0+-4+}	Energy Levels, Wavelengths	E/T	391
At	Trans. prob., Oscill. Strengths	Th	569
At^{-}	Energy Levels, Wavelengths	Th	670
Rn	Energy Levels, Wavelengths	Th	14
Rn	Energy Levels, Wavelengths	Th	402
Rn	Trans. prob., Oscill. Strengths	Th	578
Rn^{84+}	Energy Levels, Wavelengths	Th	753
Fr	Energy Levels, Wavelengths	Th	28
Fr	Energy Levels, Wavelengths	Th	157
Fr	Energy Levels, Wavelengths	Th	400
Fr	Energy Levels, Wavelengths	Th	402
Fr^{84+}	Energy Levels, Wavelengths	Th	635
Fr	Energy Levels, Wavelengths	Th	663
Ra	Energy Levels, Wavelengths	Th	14
Ra^{0+-1+}	Energy Levels, Wavelengths	E/T	170
Ra	Energy Levels, Wavelengths	Th	402
Ra	Trans. prob., Oscill. Strengths	Th	578
Ra^{31+}	Energy Levels, Wavelengths	Th	614
Ra^{30+}	Energy Levels, Wavelengths	Th	631

Ra^{31+}	Trans. prob., Oscill. Strengths	Th	794
Ra^{30+}	Trans. prob., Oscill. Strengths	Th	809
Ac^{+-2+}	Energy Levels, Wavelengths	Th	712
Th^{87+}	Energy Levels, Wavelengths	Th	80
Th^{0+-2+}	Energy Levels, Wavelengths	Exp	168
Th	Energy Levels, Wavelengths	E/T	170
Th^{60+}	Energy Levels, Wavelengths	Th	356
Th	Energy Levels, Wavelengths	Th	402
Th^{61+}	Energy Levels, Wavelengths	Th	402
Th^{79+}	Energy Levels, Wavelengths	Th	402
Th^{87+}	Energy Levels, Wavelengths	Th	402
Th^{60+}	Trans. prob., Oscill. Strengths	Th	550
Th^{32+}	Energy Levels, Wavelengths	Th	631
Th^{87+}	Energy Levels, Wavelengths	Th	635
Th^{32+}	Trans. prob., Oscill. Strengths	Th	809
Pa^{89+}	Energy Levels, Wavelengths	Th	43
U^{90+}	Energy Levels, Wavelengths	Th	43
U^{89+}	Energy Levels, Wavelengths	Th	80
U^{87+}	Energy Levels, Wavelengths	Th	96
U^{89+}	Energy Levels, Wavelengths	Th	118
U^{90+}	Energy Levels, Wavelengths	E/T	160
U^{87+}	Trans. prob., Oscill. Strengths	Th	230
U^{62+}	Energy Levels, Wavelengths	E/T	306
U^{62+}	Energy Levels, Wavelengths	Th	356
U^{62+}	Trans. prob., Oscill. Strengths	Th	550
U^{91+}	Trans. prob., Oscill. Strengths	Th	551
U^{91+}	Trans. prob., Oscill. Strengths	Th	577
U^{91+}	Trans. prob., Oscill. Strengths	Th	579
U^{0+-1+}	Energy Levels, Wavelengths	Exp	604
U^{34+}	Energy Levels, Wavelengths	Th	614
U^{91+}	Energy Levels, Wavelengths	Th	617
U^{34+}	Energy Levels, Wavelengths	Th	631
U^{88+}	Energy Levels, Wavelengths	Th	632
U^{9+}	Energy Levels, Wavelengths	Th	636
U^{89+}	Energy Levels, Wavelengths	Th	662
U^{5+}	Energy Levels, Wavelengths	Th	712
U^{90+}	Energy Levels, Wavelengths	Th	753
U^{34+}	Trans. prob., Oscill. Strengths	Th	794
U^{34+}	Trans. prob., Oscill. Strengths	Th	809
U^{88+}	Trans. prob., Oscill. Strengths	Th	811
U^{89+}	Trans. prob., Oscill. Strengths	Th	834
Pu^{+}	Trans. prob., Oscill. Strengths	Th	267
Am^{+}	Energy Levels, Wavelengths	E/T	151
Cm	Energy Levels, Wavelengths	Exp	168
Cm^{+}	Energy Levels, Wavelengths	Exp	168
No	Energy Levels, Wavelengths	Th	14
Rg	Energy Levels, Wavelengths	Th	402
Uus	Energy Levels, Wavelengths	E/T	391
Uus^{0+-4+}	Energy Levels, Wavelengths	E/T	391
Uus	Trans. prob., Oscill. Strengths	Th	569
Uuo	Energy Levels, Wavelengths	Th	402
D	Energy Levels, Wavelengths	E/T	27
D	Energy Levels, Wavelengths	Th	83
D	Energy Levels, Wavelengths	E/T	170
D	Energy Levels, Wavelengths	Th	171
D	Energy Levels, Wavelengths	Exp	307
T	Energy Levels, Wavelengths	E/T	27
H Z= 1-10	Energy Levels, Wavelengths	Th	58
H Z= 1-10	Energy Levels, Wavelengths	Th	62

H Z= 1-12	Energy Levels, Wavelengths	Th	63
H Z= 16-32	Energy Levels, Wavelengths	Exp	125
H Z= 1-100	Energy Levels, Wavelengths	Th	136
H Z= 1-26	Energy Levels, Wavelengths	Th	156
H Z= 1-2	Energy Levels, Wavelengths	E/T	170
H Z= 1-100	Energy Levels, Wavelengths	Th	171
H Z= 1-100	Trans. prob., Oscill. Strengths	Th	258
H Z= 8-92	Energy Levels, Wavelengths	Exp	297
H Z= 1-100	Energy Levels, Wavelengths	Th	334
H Z= 1-100	Energy Levels, Wavelengths	Th	349
H Z= 1-100	Energy Levels, Wavelengths	Th	393
H Z= 1-10	Trans. prob., Oscill. Strengths	Th	559
H Z= 1-10	Energy Levels, Wavelengths	Th	675
He Z= 1-10	Energy Levels, Wavelengths	Th	9
He Z= 2-4	Energy Levels, Wavelengths	Th	19
He Z= 2-10	Energy Levels, Wavelengths	Th	23
He Z= 2-20	Energy Levels, Wavelengths	Th	25
He Z= 2-17	Energy Levels, Wavelengths	Th	35
He Z= 54-71	Energy Levels, Wavelengths	Th	43
He Z= 86-93	Energy Levels, Wavelengths	Th	43
He Z= 3-12	Energy Levels, Wavelengths	Th	52
He Z= 1-10	Energy Levels, Wavelengths	Th	73
He Z= 28-36	Energy Levels, Wavelengths	Th	104
He Z= 62-68	Energy Levels, Wavelengths	Th	104
He Z= 15-39	Energy Levels, Wavelengths	Exp	125
He Z= 2-5	Energy Levels, Wavelengths	E/T	144
He Z= 20-100	Energy Levels, Wavelengths	E/T	160
He Z= 18-28 step 2	Trans. prob., Oscill. Strengths	Th	192
He Z= 3-6	Energy Levels, Wavelengths	Th	268
He Z= 2-10	Energy Levels, Wavelengths	Th	315
He Z= 3-17	Energy Levels, Wavelengths	Th	316
He Z= 21-25	Energy Levels, Wavelengths	Th	316
He Z= 29-35	Energy Levels, Wavelengths	Th	316
He Z= 3-8	Energy Levels, Wavelengths	Th	329
He Z= 3-6	Energy Levels, Wavelengths	Th	343
He Z= 2-28	Energy Levels, Wavelengths	Th	355
He Z= 7-8	Energy Levels, Wavelengths	E/T	472
He Z= 28-92	Trans. prob., Oscill. Strengths	Th	536
He Z= 3-6	Trans. prob., Oscill. Strengths	Th	543
He Z= 1-10	Energy Levels, Wavelengths	Th	607
He Z= 7-12	Energy Levels, Wavelengths	Th	640
He Z= 3-6	Energy Levels, Wavelengths	Th	689
He Z= 4-10	Energy Levels, Wavelengths	Th	710
He Z= 12-14	Energy Levels, Wavelengths	Th	710
He Z= 18-26 step 2	Energy Levels, Wavelengths	Th	710
He Z= 4-10	Trans. prob., Oscill. Strengths	Th	862
He Z= 12-14	Trans. prob., Oscill. Strengths	Th	862
He Z= 18-26 step 2	Trans. prob., Oscill. Strengths	Th	862
Li Z= 3-20	Energy Levels, Wavelengths	Th	25
Li Z= 3-92	Energy Levels, Wavelengths	Th	49
Li Z= 10-92	Energy Levels, Wavelengths	Th	49
Li Z= 3-14	Energy Levels, Wavelengths	Th	72
Li Z= 3-50	Energy Levels, Wavelengths	Th	72
Li Z= 10-92	Energy Levels, Wavelengths	Th	80
Li Z= 4-36	Energy Levels, Wavelengths	Th	280
Li Z= 10-100	Energy Levels, Wavelengths	Th	350
Li Z= 11-20	Energy Levels, Wavelengths	Th	381
Li Z= 14-54	Energy Levels, Wavelengths	Th	399
Li Z= 4-36	Trans. prob., Oscill. Strengths	Th	512

Li Z= 6-10	Trans. prob., Oscill. Strengths	Th	515
Li Z= 14-54	Trans. prob., Oscill. Strengths	Th	572
Li Z= 3-8	Energy Levels, Wavelengths	Th	586
Li Z= 18-36	Energy Levels, Wavelengths	Th	633
Li Z= 4-55	Energy Levels, Wavelengths	Th	635
Be Z= 4-20	Energy Levels, Wavelengths	Th	25
Be Z= 3-10	Energy Levels, Wavelengths	Th	293
Be Z= 5-12	Energy Levels, Wavelengths	Th	632
Be Z= 14-34 step 2	Energy Levels, Wavelengths	Th	632
Be Z= 46-56 step 2	Energy Levels, Wavelengths	Th	632
Be Z= 70-90 step 4	Energy Levels, Wavelengths	Th	632
Be Z= 4-8	Energy Levels, Wavelengths	Th	648
Be Z= 5-12	Trans. prob., Oscill. Strengths	Th	811
Be Z= 14-34 step 2	Trans. prob., Oscill. Strengths	Th	811
Be Z= 46-56 step 2	Trans. prob., Oscill. Strengths	Th	811
Be Z= 70-90 step 4	Trans. prob., Oscill. Strengths	Th	811
B Z= 6-42	Energy Levels, Wavelengths	E/T	71
B Z= 7-9	Energy Levels, Wavelengths	Th	433
B Z= 7-30	Energy Levels, Wavelengths	Th	623
B Z= 7-45	Energy Levels, Wavelengths	Th	750
B Z= 7-30	Trans. prob., Oscill. Strengths	Th	802
C Z= 6-42	Energy Levels, Wavelengths	E/T	71
C Z= 6-30	Trans. prob., Oscill. Strengths	Th	265
C Z= 9-17	Energy Levels, Wavelengths	E/T	705
C Z= 9-28	Energy Levels, Wavelengths	E/T	705
C Z= 19-28	Energy Levels, Wavelengths	E/T	705
C Z= 9-54	Energy Levels, Wavelengths	Th	771
C Z= 9-28	Trans. prob., Oscill. Strengths	Th	860
N Z= 50-92	Energy Levels, Wavelengths	E/T	97
N Z= 13-16	Energy Levels, Wavelengths	Exp	154
N Z= 18-20	Energy Levels, Wavelengths	Exp	154
O Z= 8-42	Energy Levels, Wavelengths	Th	384
O Z= 13-17	Energy Levels, Wavelengths	E/T	472
O Z= 20-30	Trans. prob., Oscill. Strengths	Th	564
F Z= 17-59	Energy Levels, Wavelengths	Th	161
Ne Z= 17-59	Energy Levels, Wavelengths	Th	161
Ne Z= 13-100	Energy Levels, Wavelengths	Th	346
Ne Z= 11-36	Energy Levels, Wavelengths	Th	388
Ne Z= 14-17	Energy Levels, Wavelengths	E/T	458
Ne Z= 13-109	Trans. prob., Oscill. Strengths	Th	545
Ne Z= 35-109	Trans. prob., Oscill. Strengths	Th	545
Ne Z= 11-36	Trans. prob., Oscill. Strengths	Th	568
Na Z= 17-59	Energy Levels, Wavelengths	Th	161
Mg Z= 12-17	Trans. prob., Oscill. Strengths	Th	218
Mg Z= 19-31	Trans. prob., Oscill. Strengths	Th	218
Mg Z= 12-80	Trans. prob., Oscill. Strengths	Th	257
Mg Z= 21-26	Energy Levels, Wavelengths	E/T	472
Mg Z= 12-16	Trans. prob., Oscill. Strengths	Th	561
Mg Z= 27-29	Trans. prob., Oscill. Strengths	E/T	563
Al Z= 18-40	Energy Levels, Wavelengths	Th	377
Al Z= 25-29	Trans. prob., Oscill. Strengths	E/T	835
Si Z= 26-28	Trans. prob., Oscill. Strengths	Th	227
Si Z= 18-40	Energy Levels, Wavelengths	Th	377
Si Z= 15-19	Energy Levels, Wavelengths	Th	621
Si Z= 15-19	Trans. prob., Oscill. Strengths	Th	799
Si Z= 25-29	Trans. prob., Oscill. Strengths	E/T	835
P Z= 26-28	Trans. prob., Oscill. Strengths	Th	227
P Z= 18-40	Energy Levels, Wavelengths	Th	377
P Z= 25-29	Trans. prob., Oscill. Strengths	E/T	835

S Z= 26-28	Trans. prob., Oscill. Strengths	Th	227
S Z= 18-40	Energy Levels, Wavelengths	Th	377
S Z= 25-29	Trans. prob., Oscill. Strengths	E/T	835
Cl Z= 18-40	Energy Levels, Wavelengths	Th	377
Ar Z= 17-19	Energy Levels, Wavelengths	Th	361
K Z= 22-26	Energy Levels, Wavelengths	Th	405
K Z= 72-74	Energy Levels, Wavelengths	E/T	585
K Z= 19-30	Energy Levels, Wavelengths	Th	721
V Z= 24-30	Energy Levels, Wavelengths	Th	721
Fe Z= 72-73	Energy Levels, Wavelengths	E/T	378
Co Z= 72-73	Energy Levels, Wavelengths	E/T	378
Co Z= 72-74	Energy Levels, Wavelengths	E/T	585
Ni Z= 72-73	Energy Levels, Wavelengths	E/T	378
Ni Z= 72-73	Energy Levels, Wavelengths	E/T	378
Cu Z= 72-73	Energy Levels, Wavelengths	E/T	378
Zn Z= 32-100	Energy Levels, Wavelengths	Th	86
Zn Z= 33-47	Energy Levels, Wavelengths	Th	86
Zn Z= 47-92	Energy Levels, Wavelengths	Th	86
Zn Z= 30-92	Energy Levels, Wavelengths	Th	91
Zn Z= 51-92	Energy Levels, Wavelengths	Th	91
Zn Z= 32-100	Trans. prob., Oscill. Strengths	Th	223
Zn Z= 30-92	Trans. prob., Oscill. Strengths	Th	228
Zn Z= 72-73	Energy Levels, Wavelengths	E/T	378
Zn Z= 48-54	Energy Levels, Wavelengths	Th	382
Zn Z= 30-66	Trans. prob., Oscill. Strengths	Th	529
Zn Z= 48-54	Trans. prob., Oscill. Strengths	Th	560
Ga Z= 72-73	Energy Levels, Wavelengths	E/T	378
Ga Z= 68-79	Energy Levels, Wavelengths	Th	684
Ga Z= 81-95 step 2	Energy Levels, Wavelengths	Th	684
Ga Z= 33-41	Energy Levels, Wavelengths	Th	717
Ga Z= 70-92	Energy Levels, Wavelengths	Th	717
Ga Z= 68-79	Trans. prob., Oscill. Strengths	Th	846
Ga Z= 75-79	Trans. prob., Oscill. Strengths	Th	846
Ga Z= 81-95 step 2	Trans. prob., Oscill. Strengths	Th	846
Ga Z= 32-36	Trans. prob., Oscill. Strengths	Th	865
Ge Z= 72-73	Energy Levels, Wavelengths	E/T	378
As Z= 72-73	Energy Levels, Wavelengths	E/T	378
Se Z= 72-73	Energy Levels, Wavelengths	E/T	378
Br Z= 72-73	Energy Levels, Wavelengths	E/T	378
Kr Z= 72-73	Energy Levels, Wavelengths	E/T	378
Rb Z= 72-89	Energy Levels, Wavelengths	Th	367
Rb Z= 72-73	Energy Levels, Wavelengths	E/T	378
Sr Z= 43-68	Energy Levels, Wavelengths	Th	143
Sr Z= 72-89	Energy Levels, Wavelengths	Th	367
Sr Z= 72-73	Energy Levels, Wavelengths	E/T	378
Y Z= 72-89	Energy Levels, Wavelengths	Th	367
Zr Z= 72-89	Energy Levels, Wavelengths	Th	367
Nb Z= 72-89	Energy Levels, Wavelengths	Th	367
Mo Z= 72-89	Energy Levels, Wavelengths	Th	367
Tc Z= 72-89	Energy Levels, Wavelengths	Th	367
Ru Z= 49-74	Energy Levels, Wavelengths	Th	143
Ru Z= 72-89	Energy Levels, Wavelengths	Th	367
Rh Z= 52-86	Energy Levels, Wavelengths	Th	120
Rh Z= 72-89	Energy Levels, Wavelengths	Th	367
Pd Z= 52-86	Energy Levels, Wavelengths	Th	120
Pd Z= 52-86	Energy Levels, Wavelengths	Th	120
Ag Z= 52-86	Energy Levels, Wavelengths	Th	120
Ag Z= 47-57	Energy Levels, Wavelengths	Th	135
Ag Z= 47-57	Trans. prob., Oscill. Strengths	Th	251

Ag Z= 50-86	Energy Levels, Wavelengths	Th	304
Ag Z= 50-86	Trans. prob., Oscill. Strengths	Th	527
Ag Z= 60-61	Energy Levels, Wavelengths	Th	636
Ag Z= 47-92	Energy Levels, Wavelengths	Th	679
Ag Z= 47-92	Trans. prob., Oscill. Strengths	Th	842
Cd Z= 60-61	Energy Levels, Wavelengths	Th	636
In Z= 57-90	Energy Levels, Wavelengths	Th	636
Sn Z= 58-60	Energy Levels, Wavelengths	Th	636
Sn Z= 60-63	Energy Levels, Wavelengths	Th	636
Sb Z= 59-61	Energy Levels, Wavelengths	Th	636
Sb Z= 61-64	Energy Levels, Wavelengths	Th	636
Te Z= 61-64	Energy Levels, Wavelengths	Th	636
I Z= 61-64	Energy Levels, Wavelengths	Th	636
Xe Z= 62-65	Energy Levels, Wavelengths	Th	636
Cs Z= 62-65	Energy Levels, Wavelengths	Th	636
Ho Z= 72-75	Energy Levels, Wavelengths	E/T	612
Ho Z= 72-75	Trans. prob., Oscill. Strengths	Th	793
Tm Z= 70-74	Trans. prob., Oscill. Strengths	Th	836
Lu Z= 74-100	Energy Levels, Wavelengths	Th	669
Au Z= 79-83	Trans. prob., Oscill. Strengths	Th	251
Tl Z= 90-100	Energy Levels, Wavelengths	Th	636
Pb Z= 95-100	Energy Levels, Wavelengths	Th	636
Bi Z= 96-99	Energy Levels, Wavelengths	Th	636
Bi Z= 96-100	Energy Levels, Wavelengths	Th	636
Po Z= 96-99	Energy Levels, Wavelengths	Th	636
At Z= 96-100	Energy Levels, Wavelengths	Th	636
Rn Z= 97-100	Energy Levels, Wavelengths	Th	636
Fr Z= 97-101	Energy Levels, Wavelengths	Th	636

Chapter 3
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Kr	Energy Levels, Wavelengths	Th
Sr	Energy Levels, Wavelengths	Th
Pd	Energy Levels, Wavelengths	Th
Cd	Energy Levels, Wavelengths	Th
Xe	Energy Levels, Wavelengths	Th
Ba	Energy Levels, Wavelengths	Th
Yb	Energy Levels, Wavelengths	Th
Hg	Energy Levels, Wavelengths	Th
Rn	Energy Levels, Wavelengths	Th
Ra	Energy Levels, Wavelengths	Th
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H	Energy Levels, Wavelengths	Exp
C	Energy Levels, Wavelengths	Exp
Na	Energy Levels, Wavelengths	Exp
Mg	Energy Levels, Wavelengths	Exp
Al	Energy Levels, Wavelengths	Exp
Si	Energy Levels, Wavelengths	Exp
S	Energy Levels, Wavelengths	Exp
K	Energy Levels, Wavelengths	Exp
Ca^{0+-1+}	Energy Levels, Wavelengths	Exp
Sc	Energy Levels, Wavelengths	Exp
Ti	Energy Levels, Wavelengths	Exp
Cr	Energy Levels, Wavelengths	Exp
Fe	Energy Levels, Wavelengths	Exp
Ni	Energy Levels, Wavelengths	Exp

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F^{6+}	Energy Levels, Wavelengths	Th

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D	Energy Levels, Wavelengths	E/T
T	Energy Levels, Wavelengths	E/T

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He	Energy Levels, Wavelengths	Th
Li	Energy Levels, Wavelengths	Th
Be	Energy Levels, Wavelengths	Th
Ne	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
Mg	Energy Levels, Wavelengths	Th
Ar	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Ca	Energy Levels, Wavelengths	Th
Kr	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Sr	Energy Levels, Wavelengths	Th
Xe	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Ba	Energy Levels, Wavelengths	Th
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Mg^{2+}	Energy Levels, Wavelengths	E/T

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Relativistic Many-Body Calculation of Low-Energy Dielectronic Resonances in Be-like Carbon
Phys. Rev. A 82, 022720 (2010)

C^{2+}	Energy Levels, Wavelengths	Th

39. J. C. Cardona, J. L. Sanz-Vicario, F. Martín
Complete Feshbach-Type Calculations of Energy Positions and Widths of Autoionizing States in Li-like Atoms
Phys. Rev. A 82, 022501 (2010)

Li	Energy Levels, Wavelengths	Th
Ne^{7+}	Energy Levels, Wavelengths	Th

40. G. Gaigalas, Z. Rudzikas, E. Gaidamauskas, P. Rynkun, A. Alkauskas
Pecularities of Spectroscopic Properties of W^{24+}
Phys. Rev. A 82, 014502 (2010)

W^{24+}	Energy Levels, Wavelengths	Th

41. I. Vasiliev, J. R. Chelikowsky
Real-Space Calculations of Atomic and Molecular Polarizabilities Using Asymptotically Correct Exchange-Correlation Potentials
Phys. Rev. A 82, 012502 (2010)

He	Energy Levels, Wavelengths	Th
Ne	Energy Levels, Wavelengths	Th
Ar	Energy Levels, Wavelengths	Th
Kr	Energy Levels, Wavelengths	Th
Xe	Energy Levels, Wavelengths	Th

42. Z. Nouri, S. D. Rosner, R. Li, T. J. Scholl, R. A. Holt
Measurements of Isotope Shifts and Hyperfine Structure in Ti II
Phys. Scr. 81, 065301 (2010)

Ti^{+}	Energy Levels, Wavelengths	Exp

43. F. Ferro, A. Artemyev, Th. Stöhlker, A. Surzhykov
Isotope Shift of the 1s2p $^3P_0$–1s2s $^1S_0$ Level Splitting in Heavy He-like Ions: Implications for Atomic Parity-Nonconservation Studies
Phys. Rev. A 81, 062503 (2010)

He Z= 54-71	Energy Levels, Wavelengths	Th
He Z= 86-93	Energy Levels, Wavelengths	Th
Gd^{62+}	Energy Levels, Wavelengths	Th
Pa^{89+}	Energy Levels, Wavelengths	Th
U^{90+}	Energy Levels, Wavelengths	Th

44. J. Clementson, P. Beiersdorfer
Wavelength Measurement of n=3 to n=3 Transitions in Highly Charged Tungsten Ions
Phys. Rev. A 81, 052509 (2010)

$W^{55+-64+}$	Energy Levels, Wavelengths	Exp

45. A. Derevianko
Theory of Magic Optical Traps for Zeeman-Insensitive Clock Transitions in Alkali-Metal Atoms
Phys. Rev. A 81, 051606 (2010)

Li	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th

46. G. P. Gupta, A. Z. Msezane
Fine-Structure Energy Levels and Radiative Decay Rates in Al-like Vanadium
Phys. Scr. 81, 045302 (2010)

V^{10+}	Energy Levels, Wavelengths	Th

47. L.-Y. Tang, Z.-C. Yan, T.-Y. Shi, J. Mitroy
Dynamic Dipole Polarizabilities of the Li Atom and the Be^+ Ion
Phys. Rev. A 81, 042521 (2010)

Li	Energy Levels, Wavelengths	Th
Be^+	Energy Levels, Wavelengths	Th

48. B. K. Mani, D. Angom
Atomic Properties Calculated by Relativistic Coupled-Cluster Theory Without Truncation: Hyperfine Constants of Mg^+, Ca^+, Sr^+, and Ba^+
Phys. Rev. A 81, 042514 (2010)

Mg^+	Energy Levels, Wavelengths	Th
Ca^+	Energy Levels, Wavelengths	Th
Sr^+	Energy Levels, Wavelengths	Th
Ba^+	Energy Levels, Wavelengths	Th

49. Y. S. Kozhedub, A. V. Volotka, A. N. Artemyev, D. A. Glazov, G. Plunien, V. M. Shabaev, I. I. Tupitsyn, Th. Stöhlker
Relativistic Recoil, Electron-Correlation, and QED Effects on the $2p_j$-2s Transition Energies in Li-like Ions
Phys. Rev. A 81, 042513 (2010)

Li Z= 3-92	Energy Levels, Wavelengths	Th
Li Z= 10-92	Energy Levels, Wavelengths	Th
Ne^{7+}	Energy Levels, Wavelengths	Th
P^{12+}	Energy Levels, Wavelengths	Th
Ar^{15+}	Energy Levels, Wavelengths	Th
Ca^{17+}	Energy Levels, Wavelengths	Th
Sc^{18+}	Energy Levels, Wavelengths	Th
Fe^{23+}	Energy Levels, Wavelengths	Th
Ni^{25+}	Energy Levels, Wavelengths	Th
Zn^{27+}	Energy Levels, Wavelengths	Th
Kr^{33+}	Energy Levels, Wavelengths	Th
Zr^{37+}	Energy Levels, Wavelengths	Th
Ag^{44+}	Energy Levels, Wavelengths	Th
Sn^{47+}	Energy Levels, Wavelengths	Th
Te^{49+}	Energy Levels, Wavelengths	Th
Xe^{51+}	Energy Levels, Wavelengths	Th
Nd^{57+}	Energy Levels, Wavelengths	Th

50. M. Schäfer, M. Raunhardt, F. Merkt
Millimeter-Wave Spectroscopy and Multichannel Quantum-Defect-Theory Analysis of High Rydberg States of Xenon: The Hyperfine Structure of $^{129}Xe^+$ and $^{131}Xe^+$
Phys. Rev. A 81, 032514 (2010)

Xe	Energy Levels, Wavelengths	E/T

51. P. Oxley, P. Collins
Measurement of the Lithium 10p Fine Structure Interval and Absolute Energy
Phys. Rev. A 81, 024501 (2010)

Li	Energy Levels, Wavelengths	Exp

52. V. A. Yerokhin, K. Pachucki
Theoretical Energies of Low-Lying States of Light Helium-like Ions
Phys. Rev. A 81, 022507 (2010)

He Z= 3-12	Energy Levels, Wavelengths	Th

53. J. A. Keele, S. L. Woods, M. E. Hanni, S. R. Lundeen, W. G. Sturrus
Optical Spectroscopy of High-L Rydberg States of Nickel
Phys. Rev. A 81, 022506 (2010)

Ni	Energy Levels, Wavelengths	Exp
Ni^+	Energy Levels, Wavelengths	Exp

54. W. Klopper, R. A. Bachorz, D. P. Tew, C. Hättig
Sub-meV Accuracy in First-Principles Computations of the Ionization Potentials and Electron Affinities of the Atoms H to Ne
Phys. Rev. A 81, 022503 (2010)

H^-	Energy Levels, Wavelengths	Th
H-Ne	Energy Levels, Wavelengths	Th
Li-F^-	Energy Levels, Wavelengths	Th

55. L.-H. Hao, G. Jiang, H.-J. Hou
Effects of Valence-Valence, Core-Valence, and Core-Core Correlations on the Fine-Structure Energy Levels in Al-like Ions
Phys. Rev. A 81, 022502 (2010)

Se^{21+}	Energy Levels, Wavelengths	Th
Kr^{23+}	Energy Levels, Wavelengths	Th
Zr^{27+}	Energy Levels, Wavelengths	Th
Mo^{29+}	Energy Levels, Wavelengths	Th
Xe^{41+}	Energy Levels, Wavelengths	Th
Au^{66+}	Energy Levels, Wavelengths	Th

56. J. H. Yang, X. L. Cheng, B. L. Deng
Detailed Level-By-Level Study of Dielectronic Recombination for Ne-like Gold
Phys. Scr. 81, 015304 (2010)

Au^{69+}	Energy Levels, Wavelengths	Th

57. J. Clementson, P. Beiersdorfer, G. V. Brown, M. F. Gu
Spectroscopy of M-Shell X-ray Transitions in Zn-like through Co-like W
Phys. Scr. 81, 015301 (2010)

$W^{44+-47+}$	Energy Levels, Wavelengths	Exp

58. U. D. Jentschura
Self-Energy Correction to the Bound-Electron g Factor of P States
Phys. Rev. A 81, 012512 (2010)

H Z= 1-10	Energy Levels, Wavelengths	Th

59. S. Civiš, I. Matulková, J. Cihelka, K. Kawaguchi, V. E. Chernov, E. Yu. Buslov
Time-Resolved Fourier-Transform Infrared Emission Spectroscopy of Au in the 1800–4000-cm^{-1} Region: Rydberg Transitions
Phys. Rev. A 81, 012510 (2010)

Au	Energy Levels, Wavelengths	Exp

60. V. Jonauskas, R. Kisielius, A. Kynienė, S. Kučas, P. H. Norrington
Magnetic Dipole Transitions in $4d^N$ Configurations of Tungsten Ions
Phys. Rev. A 81, 012506 (2010)

$W^{29+-37+}$	Energy Levels, Wavelengths	E/T

61. J. Clementson, P. Beiersdorfer, M. F. Gu
X-ray Spectroscopy of E2 and M3 Transitions in Ni-like W
Phys. Rev. A 81, 012505 (2010)

W^{46+}	Energy Levels, Wavelengths	Exp

62. U. D. Jentschura, V. A. Yerokhin
QED Corrections of Order $\alpha(Z\alpha)^2 E_F$ to the Hyperfine Splitting of $P_{1/2}$ and $P_{3/2}$ States in Hydrogenlike Ions
Phys. Rev. A 81, 012503 (2010)

H Z= 1-10	Energy Levels, Wavelengths	Th

63. V. A. Yerokhin, U. D. Jentschura
Self-Energy Correction to the Hyperfine Splitting and the Electron g Factor in Hydrogenlike Ions
Phys. Rev. A 81, 012502 (2010)

H Z= 1-12	Energy Levels, Wavelengths	Th

64. N. H. Brooks, K. H. Burrell, R. C. Isler, O. Meyer, N. A. Pablant
Charge Exchange Recombination Detection of Low-Z and Medium-Z Impurities in the Extreme UV Using a Digital Lock-in Technique
Rev. Sci. Instrum. 81, 10D721 (2010)

Ni^{25+}	Energy Levels, Wavelengths	Exp
Cu^{26+}	Energy Levels, Wavelengths	Exp

65. T. Carette, M. Nemouchi, P. Jönsson, M. Godefroid
Saturation Spectra of Low Lying States of Nitrogen: Reconciling Experiment with Theory
Eur. Phys. J. D 60, 231-242 (2010)

N	Energy Levels, Wavelengths	E/T

66. A. O. Lindahl, P. Andersson, C. Diehl, O. Forstner, P. Klason, D. Hanstorp
The Electron Affinity of Tungsten
Eur. Phys. J. D 60, 219-222 (2010)

W^-	Energy Levels, Wavelengths	Exp

67. C.-Y. Li, X.-J. Liu, G.-W. Meng, J.-G. Wang
Theoretical Study of the Dielectronic Recombination Process of Ni^{17+} Ions
Acta Phys. Sin. 59-9, 6044-6051 (2010)

Ni^{16+}	Energy Levels, Wavelengths	Th
$Ni^{16+-17+}$	Energy Levels, Wavelengths	Th

68. Y. Sun, B.-C. Gou, J.-J. Zhu
Energies, Fine Structures, and Auger Widths of the High-Lying Triply Excited States of $^2S(m)$ and $^2D(m)$ (m=2–7) for the "Hollow Atom" Lithium
Acta Phys. Sin. 59-6, 3878-3884 (2010)

Li	Energy Levels, Wavelengths	Th

69. C.-C. Sang, Y.-J. Wang, J.-J. Wan, X.-B. Ding, C.-Z. Dong
Theoretical Study of Radiative Recombination and the Subsequent Radiative Decay Processes in Highly Charged Au Ions
Acta Phys. Sin. 59-6, 3871-3877 (2010)

Au$^{48+-50+}$	Energy Levels, Wavelengths	Th

70. V. L. Sukhorukov, I. D. Petrov, B. M. Lagutin, H. Schmoranzer, W. Kielich, P. V. Demekhin, A. Ehresmann
Photoionization of Xe Near 5s Threshold: I. Theoretical Study of 5s–np Resonance Structure in 5p- Photoabsorption
Eur. Phys. J. D 59, 151-159 (2010)

Xe	Energy Levels, Wavelengths	E/T
Xe^{0+-1+}	Energy Levels, Wavelengths	E/T

71. J. Huang, Q. Zhao, G. Jiang
Systematical Study on Ground-State Ionization Potentials for Boron and Carbon Isoelectronic Sequences with Z = 6–42
Commun. Theor. Phys. 54, 871-874 (2010)

B Z= 6-42	Energy Levels, Wavelengths	E/T
C Z= 6-42	Energy Levels, Wavelengths	E/T

72. I. Sakho, A. Wagué
Energies for the Ground-State and for the ns ($1s^2ns$) $^2S^e$, np ($1s^2np$) $^2P^\circ$, ($1sns^2$) $^2S^e$, (1s2sns) $^2S^e$, and (1s2snp) $^2P^\circ$ Excited States of Li-like Ions
Chin. J. Phys. 48-5, 567-591 (2010)

Li Z= 3-14	Energy Levels, Wavelengths	Th
Li Z= 3-50	Energy Levels, Wavelengths	Th

73. M. Dieng, I. Sakho, M. Biaye, A. Wagué
The Intra-Shell Singlet and Triplet Doubly Excited States Energy Calculations of Helium-Like Ions Using Special Forms of the Hylleraas-Type Wave Functions
Chin. J. Phys. 48, 38-48 (2010)

He Z= 1-10	Energy Levels, Wavelengths	Th

74. A. Müller, S. Schippers, R. A. Phaneuf, A. L. D. Kilcoyne, H. Bräuning, A. S. Schlachter, M. Lu, B. M. McLaughlin
State-Resolved Valence Shell Photoionization of Be-like Ions: Experiment and Theory
J. Phys. B 43, 225201 (2010)

C^{2+}	Energy Levels, Wavelengths	Exp
N^{3+}	Energy Levels, Wavelengths	Exp
O^{4+}	Energy Levels, Wavelengths	Exp

75. C. S. Harte, C. Suzuki, T. Kato, H. A. Sakaue, D. Kato, K. Sato, N. Tamura, S. Sudo, R. D'Arcy, E. Sokell, J. White, G. O'Sullivan
Tungsten Spectra Recorded at the LHD and Comparison with Calculations
J. Phys. B 43, 205004 (2010)

W$^{14+-37+}$	Energy Levels, Wavelengths	E/T

76. T. Kantia, S. Aksela, P. Turunen, L. Partanen, H. Aksela
KLL Auger Decay of Atomic Silicon
J. Phys. B 43, 205002 (2010)

Si	Energy Levels, Wavelengths	Exp

77. V. G. Yarzhemsky, M. Ya. Amusia, P. Bolognesi, L. Avaldi
A Study of the Ne $2s2p^5(^3P)3s$ and 3p Correlation Satellites up to 75 eV Above Threshold
J. Phys. B 43, 185204 (2010)

Ne	Energy Levels, Wavelengths	Exp

78. J. Yanagibayashi, T. Nakano, A. Iwamae, H. Kubo, M. Hasuo, K. Itami
Highly Charged Tungsten Spectra Observed from JT-60U Plasmas at $T_e \approx 8$ and 14 keV
J. Phys. B 43, 144013 (2010)

$W^{47+-48+}$	Energy Levels, Wavelengths	Exp
$W^{60+-63+}$	Energy Levels, Wavelengths	Exp

79. J. Clementson, P. Beiersdorfer, E. W. Magee, H. S. McLean, R. D. Wood
Tungsten Spectroscopy Relevant to the Diagnostics of ITER Divertor Plasmas
J. Phys. B 43, 144009 (2010)

W^{5+-7+}	Energy Levels, Wavelengths	Exp

80. U. I. Safronova, A. S. Safronova, W. R. Johnson
Relativistic Many-Body Calculations of Dielectronic Satellite Spectra Created by Autoionizing 1s2l2l′ States in Li-like Ions
J. Phys. B 43, 144001 (2010)

Li Z= 10-92	Energy Levels, Wavelengths	Th
Fe^{23+}	Energy Levels, Wavelengths	Th
Mo^{39+}	Energy Levels, Wavelengths	Th
Pr^{56+}	Energy Levels, Wavelengths	Th
W^{71+}	Energy Levels, Wavelengths	Th
Hg^{77+}	Energy Levels, Wavelengths	Th
Th^{87+}	Energy Levels, Wavelengths	Th
U^{89+}	Energy Levels, Wavelengths	Th

81. A. Müller, S. Schippers, R. A. Phaneuf, S. W. J. Scully, A. Aguilar, C. Cisneros, M. F. Gharaibeh, A. S. Schlachter, B. M. McLaughlin
K-Shell Photoionization of Ground-State Li-like Boron Ions [B^{2+}]: Experiment and Theory
J. Phys. B 43, 135602 (2010)

B^{2+}	Energy Levels, Wavelengths	E/T

82. P. Jönsson, T. Carette, M. Nemouchi, M. Godefroid
Ab Initio Calculations of ^{14}N and ^{15}N Hyperfine Structures
J. Phys. B 43, 115006 (2010)

N	Energy Levels, Wavelengths	Th

83. B. J. Wundt, U. D. Jentschura
Proposal for the Determination of Nuclear Masses by High-Precision Spectroscopy of Rydberg States
J. Phys. B 43, 115002 (2010)

H	Energy Levels, Wavelengths	Th
Li^{2+}	Energy Levels, Wavelengths	Th
C^{5+}	Energy Levels, Wavelengths	Th
D	Energy Levels, Wavelengths	Th

84. C. Cheng, X. L. Zhang, X. Gao, B. Qing, J. M. Li
Theoretical Study on Mechanisms of Anomalous Fine Structure in the Magnesium Isoelectronic Sequence
J. Phys. B 43, 105001 (2010)

Mg	Energy Levels, Wavelengths	Th
Al^{+}	Energy Levels, Wavelengths	Th
Si^{2+}	Energy Levels, Wavelengths	Th
S^{4+}	Energy Levels, Wavelengths	Th

85. U. I. Safronova, A. S. Safronova
Wavelengths and Transition Rates for nl–n′l′ Transitions in Be-, B-, Mg-, Al-, Ca-, Zn-, Ag- and Yb-like Tungsten Ions
J. Phys. B 43, 074026 (2010)

W^{4+}	Energy Levels, Wavelengths	Th
W^{27+}	Energy Levels, Wavelengths	Th
W^{44+}	Energy Levels, Wavelengths	Th
W^{54+}	Energy Levels, Wavelengths	Th
W^{61+}	Energy Levels, Wavelengths	Th
W^{62+}	Energy Levels, Wavelengths	Th
W^{69+}	Energy Levels, Wavelengths	Th
W^{70+}	Energy Levels, Wavelengths	Th

86. U. I. Safronova, M. S. Safronova
Relativistic Many-Body Calculations of the Oscillator Strengths, Transition Rates and Polarizabilities in Zn-like Ions
J. Phys. B 43, 074025 (2010)

Zn Z= 32-100	Energy Levels, Wavelengths	Th
Zn Z= 33-47	Energy Levels, Wavelengths	Th
Zn Z= 47-92	Energy Levels, Wavelengths	Th

87. J. Reader
Spectrum and energy levels of five-times ionized molybdenum, Mo VI
J. Phys. B 43, 074024 (2010)

Mo^{5+}	Energy Levels, Wavelengths	E/T

88. P. Jönsson, J. Bieroń
Relativistic Configuration Interaction Calculations of Energy Levels, Isotope Shifts, Hyperfine Structures, and Transition Rates in the $2s^2 2p^2$–$2s2p^3$ Transition Array for the Carbon-like Sequence
J. Phys. B 43, 074023 (2010)

N^{+}	Energy Levels, Wavelengths	Th
O^{2+}	Energy Levels, Wavelengths	Th
F^{3+}	Energy Levels, Wavelengths	Th
Ne^{4+}	Energy Levels, Wavelengths	Th
Ti^{16+}	Energy Levels, Wavelengths	Th

89. Y. Ishikawa, J. A. Santana, E. Träbert
Relativistic Multireference Many-Body Perturbation Theory for Open-Shell Ions with Multiple Valence Shell Electrons: The Transition Rates and Lifetimes of the Excited Levels in Chlorinelike Fe X
J. Phys. B 43, 074022 (2010)

Fe^{9+}	Energy Levels, Wavelengths	Th

90. J. D. Gillaspy, C. T. Chantler, D. Paterson, L. T. Hudson, F. G. Serpa, E. Takács
First Measurement of Lyman alpha X-ray Lines in Hydrogen-like Vanadium: Results and Implications for Precision Wavelength Metrology and Tests of QED
J. Phys. B 43, 074021 (2010)

V^{22+}	Energy Levels, Wavelengths	Exp

91. M. H. Chen, K. T. Cheng
A Large-Scale Relativistic Configuration-Interaction Approach: Application to the $4s^2$-4s4p Transition Energies and E1 Rates for Zn-like Ions
J. Phys. B 43, 074019 (2010)

Zn Z= 30-92	Energy Levels, Wavelengths	Th
Zn Z= 51-92	Energy Levels, Wavelengths	Th
Kr^{6+}	Energy Levels, Wavelengths	Th

92. J.-F. Wyart
Interpretation of the Odd Parity Energy Levels in the Spectrum of Neutral Tungsten
J. Phys. B 43, 074018 (2010)

W	Energy Levels, Wavelengths	E/T

93. É. Biémont, P. Palmeri, P. Quinet
Landé g-Factors Along the Sixth Row of the Periodic Table
J. Phys. B 43, 074010 (2010)

Pr^{+}	Energy Levels, Wavelengths	Th
Ta^{0+-2+}	Energy Levels, Wavelengths	Th
W^{+-2+}	Energy Levels, Wavelengths	Th
Re^{0+-1+}	Energy Levels, Wavelengths	Th
Os^{0+-1+}	Energy Levels, Wavelengths	Th
Ir^{0+-1+}	Energy Levels, Wavelengths	Th
Au^{0+-1+}	Energy Levels, Wavelengths	Th
Pb	Energy Levels, Wavelengths	Th
Bi^{+}	Energy Levels, Wavelengths	Th

94. D. R. Beck, L. Pan
Improved RCI Techniques for Atomic $4f^n$ Excitation Energies and Polarizabilities
J. Phys. B 43, 074009 (2010)

Ni^{+}	Energy Levels, Wavelengths	Th

95. M. C. Simon, M. Schwarz, S. W. Epp, C. Beilmann, B. L. Schmitt, Z. Harman, T. M. Baumann, P. H. Mokler, S. Bernitt, R. Ginzel, S. G. Higgins, C. H. Keitel, R. Klawitter, K. Kubiček, V. Mäckel, J. Ullrich, J. R. Crespo López-Urrutia
Photoionization of N^{3+} and Ar^{8+} in an Electron Beam Ion Trap by Synchrotron Radiation
J. Phys. B 43, 065003 (2010)

N^{3+}	Energy Levels, Wavelengths	Exp
Ar^{8+}	Energy Levels, Wavelengths	Exp

96. J.-G. Li, P. Jönsson, C.-Z. Dong, G. Gaigalas
Two-Electron–One-Photon M1 and E2 Transitions Between the States of the $2p^3$ and $2s^22p$ Odd Configurations for B-like Ions with 18 $\leq$ Z $\leq$ 92
J. Phys. B 43, 035005 (2010)

Ar^{13+}	Energy Levels, Wavelengths	Th
Fe^{21+}	Energy Levels, Wavelengths	Th
Kr^{31+}	Energy Levels, Wavelengths	Th
Mo^{37+}	Energy Levels, Wavelengths	Th
Xe^{49+}	Energy Levels, Wavelengths	Th
Eu^{58+}	Energy Levels, Wavelengths	Th
W^{69+}	Energy Levels, Wavelengths	Th
Hg^{75+}	Energy Levels, Wavelengths	Th
U^{87+}	Energy Levels, Wavelengths	Th

97. J.-Q. Li, X.-M. Zhang, M. Huang, C.-Y. Chen, Y.-M. Zou
Measurement of the Energy of the $(2s_{1/2}2p_{1/2}^2 2p_{3/2}^2)_{5/2}$-$(2s^2 2p_{1/2}^2 2p_{3/2})_{3/2}$ X-ray Transition in the N-like $^{208}Pb^{75+}$
J. Phys. B 43, 035003 (2010)

N Z= 50-92	Energy Levels, Wavelengths	E/T
Pb^{75+}	Energy Levels, Wavelengths	E/T

98. G. Wang, J.-J. Wan, X.-X. Zhou
Relativistic Photoionization Cross Sections for Atomic Mg
J. Phys. B 43, 035001 (2010)

Mg^+	Energy Levels, Wavelengths	Th

99. E. B. Saloman
Energy Levels and Observed Spectral Lines of Ionized Argon, Ar II through Ar XVIII
J. Phys. Chem. Ref. Data 39, 033101 (2010)

Ar^+	Energy Levels, Wavelengths	E/T
Ar^{+-15+}	Energy Levels, Wavelengths	E/T
Ar^{+-17+}	Energy Levels, Wavelengths	E/T
$Ar^{15+-17+}$	Energy Levels, Wavelengths	E/T

100. B.-C. Gou, L. Zhuo, X.-L. Wu
Relativistic Energies and Auger Widths of High-Lying Doubly-Excited States $1s^2 3lnl'$ $^1D^e$ in Be-Like O^{4+} Ions
Chin. Phys. Lett. 27, 043101 (2010)

O^{4+}	Energy Levels, Wavelengths	Th

101. X.-Z. Shen, P. Yuan, J. Liu
Electric-Dipole Allowed (E1) and Forbidden (E2, M1 and M2) Transition Probabilities of 4f for N^+
Chin. Phys. B 19, 053101 (2010)

N^+	Energy Levels, Wavelengths	Th

102. M. Oura
Study of Inner-Shell Excitation and Relaxation Processes in Atomic and Ionic Neon by Means of Soft X-ray Spectroscopy
Plasma Sci. Technol. 12, 353-360 (2010)

Ne^{0+-2+}	Energy Levels, Wavelengths	E/T
Ne^+	Energy Levels, Wavelengths	E/T

103. J. D. Gillaspy
Testing QED in Sodium-like Gold and Xenon: Using Atomic Spectroscopy and an EBIT to Probe the Quantum Vacuum
J. Instrumentation 5, C10005 (2010)

Xe^{43+}	Energy Levels, Wavelengths	Exp
W^{63+}	Energy Levels, Wavelengths	Exp

104. F. Ferro, A. Artemyev, Th. Stöhlker, A. Surzhykov
Isotopic Tuning of the 2 $^3P_0$-2 $^1S_0$ and 2 $^3P_1$-2 $^1S_0$ Transition Energies in He-like Ions for Future Parity-Nonconservation Experiments
J. Instrumentation 5, C08006 (2010)

He Z= 28-36	Energy Levels, Wavelengths	Th
He Z= 62-68	Energy Levels, Wavelengths	Th
Ce^{56+}	Energy Levels, Wavelengths	Th
Nd^{58+}	Energy Levels, Wavelengths	Th
Gd^{62+}	Energy Levels, Wavelengths	Th

105. Y. Fu, K. Yao, B. Wei, D. Lu, R. Hutton, Y. Zou
Overview of the Shanghai EBIT
J. Instrumentation 5, C08011 (2010)

$\mathbf{Xe}^{46+-52+}$	Energy Levels, Wavelengths	Exp

106. J. Clementson
Spectroscopic Investigations of Highly Charged Tungsten Ions – Atomic Spectroscopy and Fusion Plasma Diagnostics
Thesis, Univ. Lund, Physics Dept., Lund, Sweden , (2010)

$\mathbf{W}^{42+-51+}$	Energy Levels, Wavelengths	E/T
$\mathbf{W}^{46+}$	Energy Levels, Wavelengths	E/T
$\mathbf{W}^{61+}$	Energy Levels, Wavelengths	E/T
$\mathbf{W}^{62+-71+}$	Energy Levels, Wavelengths	E/T
$\mathbf{Au}^{53+-69+}$	Energy Levels, Wavelengths	E/T
$\mathbf{Bi}^{74+-80+}$	Energy Levels, Wavelengths	E/T

107. F. S. Porter, J. S. Adams, P. Beiersdorfer, G. V. Brown, J. Clementson, M. Frankel, S. M. Kahn, R. L. Kelley, C. A. Kilbourne
High-Resolution X-ray Spectroscopy with the EBIT Calorimeter Spectrometer
AIP Conf. Proc. 1185, 454-457 (2009)

$\mathbf{B}^{3+}$	Energy Levels, Wavelengths	Exp
$\mathbf{B}^{4+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Fe}^{23+-25+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Xe}^{49+-53+}$	Energy Levels, Wavelengths	Exp

108. E. Landi, P. R. Young
New Fe IX Line Identifications Using Solar and Heliospheric Observatory/Solar Ultraviolet Measurement of Emitted Radiation and Hinode/EIS
Astrophys. J. 707, 1191-1200 (2009)

$\mathbf{Fe}^{8+}$	Energy Levels, Wavelengths	Exp

109. P. R. Young, E. Landi
CHIANTI–An Atomic Database for Emission Lines. XI. Extreme-Ultraviolet Emission Lines of Fe VII, Fe VIII, and Fe IX Observed by Hinode/EIS
Astrophys. J. 707, 173-192 (2009)

$\mathbf{Fe}^{6+-8+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Fe}^{7+-8+}$	Energy Levels, Wavelengths	Exp

110. E. Landi, P. R. Young
CHIANTI–An Atomic Database for Emission Lines. X. Spectral Atlas of a Cold Feature Observed with Hinode/EUV Imaging Spectrometer
Astrophys. J. 706, 1-20 (2009)

$\mathbf{He}^{+}$	Energy Levels, Wavelengths	Exp
$\mathbf{O}^{3+-5+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Ne}^{4+-5+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Mg}^{4+-6+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Al}^{4+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Al}^{6+-8+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Si}^{5+-9+}$	Energy Levels, Wavelengths	Exp
$\mathbf{S}^{7+-9+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Cr}^{6+-7+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Mn}^{7+-8+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Fe}^{6+-15+}$	Energy Levels, Wavelengths	Exp
$\mathbf{Ni}^{10+}$	Energy Levels, Wavelengths	Exp

111. G. Del Zanna, Y. Ishikawa
Benchmarking Atomic Data for Astrophysics: Fe XVII EUV Lines
Astron. Astrophys. 508, 1517-1526 (2009)

Fe^{16+}	Energy Levels, Wavelengths	Exp

112. G. Del Zanna
Benchmarking Atomic Data for Astrophysics: Fe VIII EUV Lines
Astron. Astrophys. 508, 513-524 (2009)

Fe^{7+}	Energy Levels, Wavelengths	Exp

113. G. Del Zanna
Benchmarking Atomic Data for Astrophysics: Fe VII and Other Cool Lines Observed by Hinode EIS
Astron. Astrophys. 508, 501-511 (2009)

Fe^{6+}	Energy Levels, Wavelengths	Exp

114. F. Castelli, R. L. Kurucz, S. Hubrig
New Identified (^{3}H)4d-(^{3}H)4f Transitions of Fe II from UVES Spectra of HR 6000 and 46 Aquilae
Astron. Astrophys. 508, 401-408 (2009)

Fe^{+}	Energy Levels, Wavelengths	Exp

115. K. M. Aggarwal, T. Kato, F. P. Keenan, I. Murakami
Radiative Rates and Electron Impact Excitation Rates for Transitions in Cr VIII
Astron. Astrophys. 506, 1501-1509 (2009)

Cr^{7+}	Energy Levels, Wavelengths	Th

116. H. Tian, W. Curdt, L. Teriaca, E. Landi, E. Marsch
Solar Transition Region Above Sunspots
Astron. Astrophys. 505, 307-318 (2009)

O^{2+-5+}	Energy Levels, Wavelengths	Exp
Ne^{3+-6+}	Energy Levels, Wavelengths	Exp
Na^{4+-7+}	Energy Levels, Wavelengths	Exp
Mg^{4+-8+}	Energy Levels, Wavelengths	Exp
Al^{4+}	Energy Levels, Wavelengths	Exp
Al^{6+-9+}	Energy Levels, Wavelengths	Exp
Si^{3+-4+}	Energy Levels, Wavelengths	Exp
Si^{6+-8+}	Energy Levels, Wavelengths	Exp
S^{2+-5+}	Energy Levels, Wavelengths	Exp
S^{8+}	Energy Levels, Wavelengths	Exp
Cl^{5+-6+}	Energy Levels, Wavelengths	Exp
Ar^{4+-7+}	Energy Levels, Wavelengths	Exp
Ca^{4+-5+}	Energy Levels, Wavelengths	Exp
Ca^{7+-9+}	Energy Levels, Wavelengths	Exp
Mn^{6+}	Energy Levels, Wavelengths	Exp
Fe^{6+-7+}	Energy Levels, Wavelengths	Exp
Fe^{11+}	Energy Levels, Wavelengths	Exp

117. J. García, T. R. Kallman, M. Witthoeft, E. Behar, C. Mendoza, P. Palmeri, P. Quinet, M. A. Bautista, M. Klapisch
Nitrogen K-Shell Photoabsorption
Astrophys. J., Suppl. Ser. 185, 477-485 (2009)

N^{0+-6+}	Energy Levels, Wavelengths	Th

118. O. Yu. Khetselius
Relativistic Perturbation Theory Calculation of the Hyperfine Structure Parameters for Some Heavy-Element Isotopes
Int. J. Quantum Chem. 109, 3330-3335 (2009)

Ca^{17+}	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Tm^{66+}	Energy Levels, Wavelengths	Th
Au^{76+}	Energy Levels, Wavelengths	Th
Hg	Energy Levels, Wavelengths	Th
U^{89+}	Energy Levels, Wavelengths	Th

119. D. B. Thorn, M. F. Gu, G. V. Brown, P. Beiersdorfer, F. S. Porter, C. A. Kilbourne, R. L. Kelley
Precision Measurement of the K-Shell Spectrum from Highly Charged Xenon with an Array of X-Ray Calorimeters
Phys. Rev. Lett. 103, 163001 (2009)

Xe^{52+}	Energy Levels, Wavelengths	Exp
Xe^{53+}	Energy Levels, Wavelengths	Exp

120. E. P. Ivanova
Energy Levels in Ag-like ($4d^{10}4f$, $4d^{10}5\ell$ ($\ell = 0$–3)), Pd-like ($4d^9 4f$ [J = 1], $4d^9 5p$ [J = 1], $4d^9 5f$ [J = 1]), and Rh-like ($4d^9$ [J = 5/2, 3/2]) Ions with Z $\leq$ 86
At. Data Nucl. Data Tables 95, 786-804 (2009)

Rh Z= 52-86	Energy Levels, Wavelengths	Th
Pd Z= 52-86	Energy Levels, Wavelengths	Th
Ag Z= 52-86	Energy Levels, Wavelengths	Th
Pd Z= 52-86	Energy Levels, Wavelengths	Th

121. U. I. Safronova, A. S. Safronova, P. Beiersdorfer
Excitation Energies, Radiative and Autoionization Rates, Dielectronic Satellite Lines, and Dielectronic Recombination Rates for Excited States of Na-like W from Ne-like W
At. Data Nucl. Data Tables 95, 751-785 (2009)

W^{63+}	Energy Levels, Wavelengths	Th

122. G. P. Gupta, A. Z. Msezane
Large-Scale CIV3 Calculations of Fine-Structure Energy Levels and Radiative Rates in Al-like Copper
Can. J. Phys. 87, 895-907 (2009)

Cu^{16+}	Energy Levels, Wavelengths	Th

123. R. Sánchez, M. Žáková, Ch. Geppert, J. Krämer, A. Krieger, D. Tiedemann, W. Nörtershäuser
Frequency-Comb-Based Measurements of Lithium and Beryllium Isotopes for Nuclear Structure Studies
Can. J. Phys. 87, 825-834 (2009)

Li	Energy Levels, Wavelengths	Exp
Be^+	Energy Levels, Wavelengths	Exp

124. G. A. Noble, W. A. van Wijngaarden
Critical Examination of Isotope Shift and Fine Structure Measurements for Optical Transitions in ^{6,7}Li
Can. J. Phys. 87, 807-815 (2009)

Li	Energy Levels, Wavelengths	Exp

125. C. T. Chantler, J. A. Kimpton
Recent Developments in X-ray Tests of Quantum Electrodynamics
Can. J. Phys. 87, 763-772 (2009)

H Z= 16-32	Energy Levels, Wavelengths	Exp
He Z= 15-39	Energy Levels, Wavelengths	Exp

126. B. M. van der Ende, C. Winslade, R. L. Brooks, R. H. deLaat, N. P. C. Westwood
CRDS Study of Auto-Ionizing Rydberg States of Argon in a Microwave Discharge
Can. J. Phys. 87, 575-581 (2009)

Ar	Energy Levels, Wavelengths	Exp

127. V. Tayal, G. P. Gupta, A. N. Tripathi
Energy Levels, Oscillator Strengths and Lifetimes in Ar V
Indian J. Phys. 83, 1271-1288 (2009)

Ar^{4+}	Energy Levels, Wavelengths	Th

128. J. Welte, I. Steinke, M. Henrich, F. Ritterbusch, M. K. Oberthaler, W. Aeschbach-Hertig, W. H. Schwarz, M. Trieloff
Hyperfine Spectroscopy of the $1s_5$-$2p_9$ Transition of ^{39}Ar
Rev. Sci. Instrum. 80, 113109 (2009)

Ar	Energy Levels, Wavelengths	Exp

129. C. M. Brown, A. E. Kramida, U. Feldman, J. Reader
Extension of the Resonance Line Series of Mg III
Phys. Scr. 80, 065302 (2009)

Mg^{2+}	Energy Levels, Wavelengths	E/T

130. B.-C. Gou, J.-J. Zhu, Y. Sun
Energies and Auger Widths of the High-Lying Triply Excited States for Li-like Beryllium
Phys. Rev. A 80, 062512 (2009)

Be^{+}	Energy Levels, Wavelengths	Th

131. S. Krins, S. Oppel, N. Huet, J. von Zanthier, T. Bastin
Isotope Shifts and Hyperfine Structure of the Fe I 372-nm Resonance Line
Phys. Rev. A 80, 062508 (2009)

Fe	Energy Levels, Wavelengths	Exp

132. J. S. Sims, S. A. Hagstrom
Hylleraas-Configuration-Interaction Study of the 2 ^{2}S Ground State of Neutral Lithium and the First Five Excited ^{2}S States
Phys. Rev. A 80, 052507 (2009)

Li	Energy Levels, Wavelengths	Th

133. Y. Podpaly, J. Clementson, P. Beiersdorfer, J. Williamson, G. V. Brown, M. F. Gu
Spectroscopy of $2s_{1/2}$–$2p_{3/2}$ Transitions in W^{65+} through W^{71+}
Phys. Rev. A 80, 052504 (2009)

$W^{65+-71+}$	Energy Levels, Wavelengths	Exp

134. C. Beilmann, O. Postavaru, L. H. Arntzen, R. Ginzel, C. H. Keitel, V. Mäckel, P. H. Mokler, M. C. Simon, H. Tawara, I. I. Tupitsyn, J. Ullrich, J. R. Crespo López-Urrutia, Z. Harman
Intershell Trielectronic Recombination with K-Shell Excitation in Kr^{30+}
Phys. Rev. A 80, 050702 (2009)

$Kr^{28+-30+}$	Energy Levels, Wavelengths	Exp
Kr^{32+}	Energy Levels, Wavelengths	Exp

135. L. Głowacki, J. Migdałek
Relativistic Configuration-Interaction Oscillator Strengths for Lowest E1 Transitions in Silver and Gold Isoelectronic Sequences
Phys. Rev. A 80, 042505 (2009)

Ag Z= 47-57	Energy Levels, Wavelengths	Th

136. Y. Y. Qi, J. G. Wang, R. K. Janev
Static Dipole Polarizability of Hydrogenlike Ions in Debye Plasmas
Phys. Rev. A 80, 032502 (2009)

H Z= 1-100	Energy Levels, Wavelengths	Th

137. S. G. Porsev, M. G. Kozlov, D. Reimers
Transition Frequency Shifts with Fine-Structure Constant Variation for Fe I and Isotope-Shift Calculations in Fe I and Fe II
Phys. Rev. A 79, 032519 (2009)

Fe^{0+-1+}	Energy Levels, Wavelengths	Th

138. W.-G. Jin, Y. Nemoto, T. Minowa
Hyperfine Structure and Isotope Shift in Ti I by UV Laser Spectroscopy
J. Phys. Soc. Japan 78, 094301 (2009)

Ti	Energy Levels, Wavelengths	Exp

139. J. H. Chen
A Comparison of the Resonance Energies and Widths of the Be $^1P^\circ$ and $^3P^\circ$ Doubly Excited States Obtained with the BSCR and Stabilization Methods along with the BSCI Approach
Chin. J. Phys. 47-6, 801-816 (2009)

Be	Energy Levels, Wavelengths	Th

140. A. Müller, S. Schippers, R. A. Phaneuf, S. W. J. Scully, A. Aguilar, A. M. Covington, I. Álvarez, C. Cisneros, E. D. Emmons, M. F. Gharaibeh, G. Hinojosa, A. S. Schlachter, B. M. McLaughlin
K-Shell Photoionization of Ground-State Li-like Carbon Ions [C^{3+}]: Experiment, Theory and Comparison with Time-Reversed Photorecombination
J. Phys. B 42, 235602 (2009)

C^{3+}	Energy Levels, Wavelengths	Exp

141. D. C. Griffin, C. P. Ballance
Relativistic Radiatively Damped R-Matrix Calculations of the Electron-Impact Excitation of Helium-like Iron and Krypton
J. Phys. B 42, 235201 (2009)

Fe^{24+}	Energy Levels, Wavelengths	Th
Kr^{34+}	Energy Levels, Wavelengths	Th

142. M. Raineri, M. Gallardo, S. Padilla, J. Reyna Almandos
New Energy Levels, Lifetimes and Transition Probabilities in Four Times Ionized Xenon (Xe V)
J. Phys. B 42, 205004 (2009)

Xe^{4+}	Energy Levels, Wavelengths	E/T

143. S. Kučas, R. Karazija, V. Jonauskas, A. Momkauskaitė
Interaction of $4p^5 4d^{N+1}$ and $4p^6 4d^{N-1} 4f$ Configurations and Its Influence on the Photoexcitation and Emission Spectra in the Isoelectronic and Isonuclear Sequences
J. Phys. B 42, 205001 (2009)

Sr Z= 43-68	Energy Levels, Wavelengths	Th
Ru Z= 49-74	Energy Levels, Wavelengths	Th
Sn^{5+-12+}	Energy Levels, Wavelengths	Th
$W^{29+-37+}$	Energy Levels, Wavelengths	Th

144. G. W. F. Drake, Z.-T. Lu, W. Nörtershäuser, Z.-C. Yan
Halo Nuclei in Laser Light
Lecture Notes in Physics 745, 131-153 (2008)

He Z= 2-5	Energy Levels, Wavelengths	E/T
He	Energy Levels, Wavelengths	E/T
Li	Energy Levels, Wavelengths	E/T
Li^{0+-2+}	Energy Levels, Wavelengths	E/T

145. W. A. van Wijngaarden, G. A. Noble
Precision Laser Spectroscopy of Li^+ and Neutral Lithium
Lecture Notes in Physics 745, 111-129 (2008)

Li	Energy Levels, Wavelengths	Exp
Li^+	Energy Levels, Wavelengths	Exp

146. M. Vogel, J. Alonso, K. Blaum, W. Quint, B. Schabinger, S. Sturm, J. Verdu, A. Wagner, G. Werth
The Anomalous Magnetic Moment of the Electron in Hydrogenlike Ions. A Test of Bound-State QED: Recent, Present and Future Precision Experiments
Eur. Phys. J. Spec. Top. 163, 113-126 (2008)

C^{5+}	Energy Levels, Wavelengths	Exp
O^{7+}	Energy Levels, Wavelengths	Exp
Ca^{19+}	Energy Levels, Wavelengths	Exp

147. J. Palaudoux, P. Lablanquie, L. Andric, J. H. D. Eland, F. Penent
Multi-Coincidence in Cascade Auger Decay Processes
J. Phys.: Conf. Ser. 141, 012012 (2008)

Kr^{3+}	Energy Levels, Wavelengths	Exp

148. J. H. D. Eland, P. Linusson, L. Hedin, E. Andersson, J.-E. Rubensson, R. Feifel
Coincidence Technique Using Synchrotron Radiation for Triple Photoionization: Results on Rare Gas Atoms
Phys. Rev. A 78, 063423 (2008)

Kr^{3+}	Energy Levels, Wavelengths	Exp

149. V. A. Dzuba, V. V. Flambaum
Relativistic Corrections to Transition Frequencies of Fe I and Search for Variation of the Fine-Structure Constant
Phys. Rev. A 77, 012514 (2008)

Fe	Energy Levels, Wavelengths	Th

150. B. Sylwester, J. Sylwester, K. J. H. Phillips, E. Landi
He-like Ar XVII Triplet Observed by RESIK
Adv. Space Res. 42, 833-837 (2008)

Ar^{16+}	Energy Levels, Wavelengths	Exp

151. B. L. Sharp, P. S. Goodall, L. M. Ignjatovic, H.-G. Teng
Coincidence Laser Spectroscopy (CLS) for the Detection of Ions in ICP-MS (ICP-MS-ClS). A Feasibility Study
J. Anal. At. Spectrom. 22, 1447-1470 (2007)

Fe^{+}	Energy Levels, Wavelengths	E/T
Ni^{+}	Energy Levels, Wavelengths	E/T
Tc^{+}	Energy Levels, Wavelengths	E/T
Pm^{+}	Energy Levels, Wavelengths	E/T
Am^{+}	Energy Levels, Wavelengths	E/T

152. M. B. Chowdhuri, S. Morita, M. Goto, H. Nishimura, K. Nagai, S. Fujioka
Line Analysis of EUV Spectra from Molybdenum and Tungsten Injected with Impurity Pellets in LHD
Plasma Fusion Res. 2, S1060 (2007)

$Mo^{23+-27+}$	Energy Levels, Wavelengths	Exp
$W^{21+-25+}$	Energy Levels, Wavelengths	Exp
$W^{27+-29+}$	Energy Levels, Wavelengths	Exp

153. J. Viefhaus, M. Braune, S. Korica, A. Reinköster, D. Rolles, U. Becker
Auger Cascades Versus Direct Double Auger: Relaxation Processes Following Photoionization of the Kr 3d and Xe 4d, 3d Inner Shells
J. Phys. B 38, 3885-3903 (2005)

Kr^{3+}	Energy Levels, Wavelengths	Exp

154. A. Mohan, E. Landi, B. N. Dwivedi
On the Extreme-Ultraviolet/Ultraviolet Plasma Diagnostics for Nitrogen-like Ions from Spectra Obtained by SOHO/SUMER
Astrophys. J. 582, 1162-1171 (2003)

N Z= 13-16	Energy Levels, Wavelengths	Exp
N Z= 18-20	Energy Levels, Wavelengths	Exp

155. T. J. Quinn
Practical Realization of the Definition of the Metre, Including Recommended Radiations of Other Optical Frequency Standards (2001)
Metrologia 40, 103-133 (2003)

H	Energy Levels, Wavelengths	Exp
Ca	Energy Levels, Wavelengths	Exp
Kr	Energy Levels, Wavelengths	Exp
Sr^{+}	Energy Levels, Wavelengths	Exp
Cd	Energy Levels, Wavelengths	Exp
In^{+}	Energy Levels, Wavelengths	Exp
Yb^{+}	Energy Levels, Wavelengths	Exp
Hg	Energy Levels, Wavelengths	Exp
Hg^{0+-1+}	Energy Levels, Wavelengths	Exp
Hg^{+}	Energy Levels, Wavelengths	Exp

156. A. Czarnecki, K. Melnikov
Expansion of Bound-State Energies in Powers of m/M
Phys. Rev. Lett. 87, 013001 (2001)

H Z= 1-26	Energy Levels, Wavelengths	Th

157. Y. Hahn
Polarizability of Rydberg Atoms and the Dominant Long-Range Interactions
Phys. Rev. A 62, 042703 (2000)

Li	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Fr	Energy Levels, Wavelengths	Th

158. J.-L. Zeng, J.-M. Yuan, Q.-S. Lu
Photodetachments of the Metastable nsnp^2 ^{4}P States of Be$^-$, Mg$^-$, and Ca$^-$ Ions
Phys. Rev. A 62, 022713 (2000)

Be$^-$	Energy Levels, Wavelengths	Th
Mg$^-$	Energy Levels, Wavelengths	Th
Mg	Energy Levels, Wavelengths	Th
Ca$^-$	Energy Levels, Wavelengths	Th
Ca	Energy Levels, Wavelengths	Th

159. F. L. Crawford, F. P. Keenan, M. Mathioudakis, K. M. Aggarwal, F. C. McKenna, W. A. Feibelman, B. R. Espey
Identification of the [Al II] Forbidden Line at 2661 Å in the Spectrum of RR Telescopii
Thermal and Ionization Aspects of Flows from Hot Stars: Observations and Theory, ASP Conference Series, Vol. 204, San Francisco, CA ¡br¿Astron. Soc. of Pacific, (2000)

Al$^+$	Energy Levels, Wavelengths	Exp

160. V. A. Yerokhin, A. N. Artemyev, V. M. Shabaev
Two-Electron Self-Energy Contribution to the Ground-State Energy of Helium-like Ions
Phys. Lett. A 234, 361-366 (1997)

He Z= 20-100	Energy Levels, Wavelengths	E/T
U^{90+}	Energy Levels, Wavelengths	E/T

161. J. H. Schofield, J. Nilsen
Hyperfine Splittings of Neonlike Lasing Lines
Phys. Rev. A 49, 2381-2388 (1994)

F Z= 17-59	Energy Levels, Wavelengths	Th
Na Z= 17-59	Energy Levels, Wavelengths	Th
Ne Z= 17-59	Energy Levels, Wavelengths	Th

162. G. Möller, E. Träbert, V. Lodwig, C. Wagner, P. H. Heckmann, J. H. Blanke, A. E. Livingston, P. H. Mokler
Experimental Transition Probability for the E1 Intercombination Transition in Be-like Xe^{50+}
Z. Phys. D 11, 333-334 (1989)

Xe^{50+}	Energy Levels, Wavelengths	Exp

163. C. Froese Fischer
Energy Levels and Lifetimes for Some Core-Excited Quartet States in Na I and Mg II
Phys. Rev. A 34, 1667-1676 (1986)

Na	Energy Levels, Wavelengths	Th
Mg$^+$	Energy Levels, Wavelengths	Th

164. D. R. Beck
On the Spectrum of Negative Ions and the Charge Density of the Ground State of Neutral Neon
Int. J. Quantum Chem. 22-S16, 345-355 (1982)

He^-	Energy Levels, Wavelengths	Th
Li	Energy Levels, Wavelengths	Th

165. C. E. Moore
Selected Tables of Atomic Spectra – O IV
Nat. Stand. Ref. Data Ser., NSRDS-NBS 3 (Sect. 10), U.S. ¡br¿Nat. Bur. Stand., (1982)

O^{3+}	Energy Levels, Wavelengths	E/T

166. G. O'Sullivan, P. K. Carroll
4d-4f Emission Resonances in Laser-Produced Plasmas
J. Opt. Soc. Am. 71, 227-230 (1981)

Sn-$I^{13+-15+}$	Energy Levels, Wavelengths	Exp
Cs-$W^{13+-15+}$	Energy Levels, Wavelengths	Exp

167. C. E. Moore
Selected Tables of Atomic Spectra – O V
Nat. Stand. Ref. Data Ser., NSRDS-NBS 3 (Sect. 9), U.S. ¡br¿Nat. Bur. Stand., (1980)

O^{4+}	Energy Levels, Wavelengths	E/T

168. M. Outred
Tables of Atomic Spectral Lines for the 10000 Å to 40000 Å Region
J. Phys. Chem. Ref. Data 110, 1-262 (1978)

He	Energy Levels, Wavelengths	Exp
Be	Energy Levels, Wavelengths	Exp
Be^+	Energy Levels, Wavelengths	Exp
B	Energy Levels, Wavelengths	Exp
N	Energy Levels, Wavelengths	Exp
N^+	Energy Levels, Wavelengths	Exp
O	Energy Levels, Wavelengths	Exp
F	Energy Levels, Wavelengths	Exp
F^+	Energy Levels, Wavelengths	Exp
Ne	Energy Levels, Wavelengths	Exp
Ne^+	Energy Levels, Wavelengths	Exp
Na	Energy Levels, Wavelengths	Exp
Mg	Energy Levels, Wavelengths	Exp
Mg^+	Energy Levels, Wavelengths	Exp
Al	Energy Levels, Wavelengths	Exp
Si	Energy Levels, Wavelengths	Exp
P	Energy Levels, Wavelengths	Exp
S	Energy Levels, Wavelengths	Exp
Cl	Energy Levels, Wavelengths	Exp
Cl^+	Energy Levels, Wavelengths	Exp
Ar	Energy Levels, Wavelengths	Exp
Ar^+	Energy Levels, Wavelengths	Exp
K	Energy Levels, Wavelengths	Exp
Ca	Energy Levels, Wavelengths	Exp
Ca^+	Energy Levels, Wavelengths	Exp
Cr	Energy Levels, Wavelengths	Exp
Fe	Energy Levels, Wavelengths	Exp
Fe^+	Energy Levels, Wavelengths	Exp
Cu	Energy Levels, Wavelengths	Exp
Cu^+	Energy Levels, Wavelengths	Exp
Zn	Energy Levels, Wavelengths	Exp
Ga	Energy Levels, Wavelengths	Exp
Ge	Energy Levels, Wavelengths	Exp
As^+	Energy Levels, Wavelengths	Exp

Se	Energy Levels, Wavelengths	Exp
Se^{+}	Energy Levels, Wavelengths	Exp
Br	Energy Levels, Wavelengths	Exp
Kr	Energy Levels, Wavelengths	Exp
Rb	Energy Levels, Wavelengths	Exp
Zr	Energy Levels, Wavelengths	Exp
Zr^{+}	Energy Levels, Wavelengths	Exp
Ru	Energy Levels, Wavelengths	Exp
In	Energy Levels, Wavelengths	Exp
Te	Energy Levels, Wavelengths	Exp
I	Energy Levels, Wavelengths	Exp
I^{+}	Energy Levels, Wavelengths	Exp
Xe	Energy Levels, Wavelengths	Exp
Cs	Energy Levels, Wavelengths	Exp
Ba	Energy Levels, Wavelengths	Exp
Ba^{+}	Energy Levels, Wavelengths	Exp
La^{2+}	Energy Levels, Wavelengths	Exp
Ce^{0+-2+}	Energy Levels, Wavelengths	Exp
Pr^{2+}	Energy Levels, Wavelengths	Exp
Nd	Energy Levels, Wavelengths	Exp
Nd^{+}	Energy Levels, Wavelengths	Exp
Sm	Energy Levels, Wavelengths	Exp
Sm^{+}	Energy Levels, Wavelengths	Exp
Gd^{0+-2+}	Energy Levels, Wavelengths	Exp
Tb	Energy Levels, Wavelengths	Exp
Dy	Energy Levels, Wavelengths	Exp
Dy^{+}	Energy Levels, Wavelengths	Exp
Tm	Energy Levels, Wavelengths	Exp
Tm^{+}	Energy Levels, Wavelengths	Exp
Yb	Energy Levels, Wavelengths	Exp
Yb^{+}	Energy Levels, Wavelengths	Exp
Lu	Energy Levels, Wavelengths	Exp
Hf	Energy Levels, Wavelengths	Exp
Hf^{+}	Energy Levels, Wavelengths	Exp
W	Energy Levels, Wavelengths	Exp
Re	Energy Levels, Wavelengths	Exp
Hg	Energy Levels, Wavelengths	Exp
Pb	Energy Levels, Wavelengths	Exp
Pb^{50+}	Energy Levels, Wavelengths	Exp
Th^{0+-2+}	Energy Levels, Wavelengths	Exp
Cm	Energy Levels, Wavelengths	Exp
Cm^{+}	Energy Levels, Wavelengths	Exp

169. E. V. Aglitskii, A. N. Zherikhin, P. G. Kryukov, S. V. Chekalin
Features of X-ray Spectra of a Plasma Produced by a Subnanosecond Laser Pulse
Sov. Phys.-JETP 46-4, 707-711 (1977)

Cl^{15+}	Energy Levels, Wavelengths	Exp
K^{17+}	Energy Levels, Wavelengths	Exp

170. C. E. Moore
A Multiplet Table of Astrophysical Interest, Revised Edition, Part I. Table of Multiplets, Part II. Finding List of All Lines in the Table of Multiplets
Nat. Stand. Ref. Data Ser., NSRDS-40, Washington, D.C. ¡br¿U.S. Government Printing Office, (1972)

H Z= 1-2	Energy Levels, Wavelengths	E/T
H	Energy Levels, Wavelengths	E/T
He^{+}	Energy Levels, Wavelengths	E/T
Li^{0+-1+}	Energy Levels, Wavelengths	E/T

Be^{0+-1+}	Energy Levels, Wavelengths	E/T
B^{+-2+}	Energy Levels, Wavelengths	E/T
C^{0+-3+}	Energy Levels, Wavelengths	E/T
N^{0+-3+}	Energy Levels, Wavelengths	E/T
O^{0+-5+}	Energy Levels, Wavelengths	E/T
F^{0+-2+}	Energy Levels, Wavelengths	E/T
Ne^{0+-1+}	Energy Levels, Wavelengths	E/T
Na^{0+-1+}	Energy Levels, Wavelengths	E/T
Mg^{0+-1+}	Energy Levels, Wavelengths	E/T
Al^{0+-2+}	Energy Levels, Wavelengths	E/T
Si^{0+-3+}	Energy Levels, Wavelengths	E/T
P^{0+-4+}	Energy Levels, Wavelengths	E/T
S^{0+-3+}	Energy Levels, Wavelengths	E/T
Cl^{0+-2+}	Energy Levels, Wavelengths	E/T
Ar^{0+-3+}	Energy Levels, Wavelengths	E/T
K^{0+-2+}	Energy Levels, Wavelengths	E/T
Ca^{0+-2+}	Energy Levels, Wavelengths	E/T
Sc^{0+-2+}	Energy Levels, Wavelengths	E/T
Ti^{0+-1+}	Energy Levels, Wavelengths	E/T
Ti^{3+}	Energy Levels, Wavelengths	E/T
V^{0+-1+}	Energy Levels, Wavelengths	E/T
Cr^{0+-1+}	Energy Levels, Wavelengths	E/T
Mn^{0+-1+}	Energy Levels, Wavelengths	E/T
Fe^{0+-2+}	Energy Levels, Wavelengths	E/T
Co^{0+-1+}	Energy Levels, Wavelengths	E/T
Ni^{0+-1+}	Energy Levels, Wavelengths	E/T
Cu^{0+-1+}	Energy Levels, Wavelengths	E/T
Zn^{0+-1+}	Energy Levels, Wavelengths	E/T
Ga	Energy Levels, Wavelengths	E/T
Ge^{0+-1+}	Energy Levels, Wavelengths	E/T
As^{0+-1+}	Energy Levels, Wavelengths	E/T
Se	Energy Levels, Wavelengths	E/T
Rb	Energy Levels, Wavelengths	E/T
Sr-Rh^{0+-1+}	Energy Levels, Wavelengths	E/T
Pd-Te	Energy Levels, Wavelengths	E/T
Sn^{+}	Energy Levels, Wavelengths	E/T
Cs	Energy Levels, Wavelengths	E/T
Ba^{0+-1+}	Energy Levels, Wavelengths	E/T
La^{0+-2+}	Energy Levels, Wavelengths	E/T
Ce^{+-2+}	Energy Levels, Wavelengths	E/T
Pr^{+}	Energy Levels, Wavelengths	E/T
Nd^{+}	Energy Levels, Wavelengths	E/T
Sm-Gd^{0+-1+}	Energy Levels, Wavelengths	E/T
Tm-Hf^{0+-1+}	Energy Levels, Wavelengths	E/T
Ta	Energy Levels, Wavelengths	E/T
W^{0+-1+}	Energy Levels, Wavelengths	E/T
Re-Bi	Energy Levels, Wavelengths	E/T
Ra^{0+-1+}	Energy Levels, Wavelengths	E/T
Th	Energy Levels, Wavelengths	E/T
D	Energy Levels, Wavelengths	E/T

171. H. Grotch, R. A. Hegstrom
Hydrogenic Atoms in a Magnetic Field
Phys. Rev. A 4, 59-69 (1971)

H Z= 1-100	Energy Levels, Wavelengths	Th
H	Energy Levels, Wavelengths	Th
D	Energy Levels, Wavelengths	Th

172. C. E. Moore, P. W. Merrill
Partial Grotrian Diagrams of Astrophysical Interest

Nat. Stand. Ref. Data Ser., NSRDS-NBS 23, Washington, D.C. ¡br¿U.S. Government Printing Office, (1968)

H	Energy Levels, Wavelengths	E/T
He	Energy Levels, Wavelengths	E/T
He^{+}	Energy Levels, Wavelengths	E/T
Li	Energy Levels, Wavelengths	E/T
Be	Energy Levels, Wavelengths	E/T
Be^{+}	Energy Levels, Wavelengths	E/T
B	Energy Levels, Wavelengths	E/T
C^{0+-3+}	Energy Levels, Wavelengths	E/T
N^{0+-4+}	Energy Levels, Wavelengths	E/T
O^{0+-5+}	Energy Levels, Wavelengths	E/T
Ne^{0+-4+}	Energy Levels, Wavelengths	E/T
Na	Energy Levels, Wavelengths	E/T
Na^{3+}	Energy Levels, Wavelengths	E/T
Mg	Energy Levels, Wavelengths	E/T
Mg^{+}	Energy Levels, Wavelengths	E/T
Mg^{4+}	Energy Levels, Wavelengths	E/T
Al^{0+-2+}	Energy Levels, Wavelengths	E/T
Si^{0+-3+}	Energy Levels, Wavelengths	E/T
P	Energy Levels, Wavelengths	E/T
P^{+}	Energy Levels, Wavelengths	E/T
S^{0+-2+}	Energy Levels, Wavelengths	E/T
Cl^{+-3+}	Energy Levels, Wavelengths	E/T
Ar^{0+-4+}	Energy Levels, Wavelengths	E/T
K	Energy Levels, Wavelengths	E/T
K^{3+}	Energy Levels, Wavelengths	E/T
Ca	Energy Levels, Wavelengths	E/T
Ca^{+}	Energy Levels, Wavelengths	E/T
Ca^{4+}	Energy Levels, Wavelengths	E/T
Sc	Energy Levels, Wavelengths	E/T
Sc^{+}	Energy Levels, Wavelengths	E/T
Ti	Energy Levels, Wavelengths	E/T
Ti^{+}	Energy Levels, Wavelengths	E/T
V	Energy Levels, Wavelengths	E/T
V^{+}	Energy Levels, Wavelengths	E/T
Cr	Energy Levels, Wavelengths	E/T
Cr^{+}	Energy Levels, Wavelengths	E/T
Mn	Energy Levels, Wavelengths	E/T
Mn^{+}	Energy Levels, Wavelengths	E/T
Fe^{0+-2+}	Energy Levels, Wavelengths	E/T
Co	Energy Levels, Wavelengths	E/T
Ni	Energy Levels, Wavelengths	E/T
Ni^{+}	Energy Levels, Wavelengths	E/T
Ga	Energy Levels, Wavelengths	E/T
Rb	Energy Levels, Wavelengths	E/T
Sr	Energy Levels, Wavelengths	E/T
Sr^{+}	Energy Levels, Wavelengths	E/T
Y	Energy Levels, Wavelengths	E/T
Y^{+}	Energy Levels, Wavelengths	E/T
Zr	Energy Levels, Wavelengths	E/T
Zr^{+}	Energy Levels, Wavelengths	E/T
Nb	Energy Levels, Wavelengths	E/T
Nb^{+}	Energy Levels, Wavelengths	E/T
Mo	Energy Levels, Wavelengths	E/T
Mo^{+}	Energy Levels, Wavelengths	E/T
Tc	Energy Levels, Wavelengths	E/T
Tc^{+}	Energy Levels, Wavelengths	E/T
In	Energy Levels, Wavelengths	E/T

Cs	Energy Levels, Wavelengths	E/T
Ba	Energy Levels, Wavelengths	E/T
Ba^+	Energy Levels, Wavelengths	E/T
La	Energy Levels, Wavelengths	E/T
La^+	Energy Levels, Wavelengths	E/T
Hf^+	Energy Levels, Wavelengths	E/T
W	Energy Levels, Wavelengths	E/T
Re	Energy Levels, Wavelengths	E/T
Re^+	Energy Levels, Wavelengths	E/T

173. J. A. Bearden, A. F. Burr
Reevaluation of X-ray Atomic Energy Levels
Rev. Mod. Phys. 39, 125-142 (1967)

Li-Am	Energy Levels, Wavelengths	E/T

174. J. A. Bearden
X-ray Wavelengths
Rev. Mod. Phys. 39, 78-124 (1967)

Li-Am	Energy Levels, Wavelengths	Exp

175. J. A. Bearden, A. F. Burr
X-ray Wavelengths and X-ray Atomic Energy Levels
Nat. Stand. Ref. Data Ser., NSRDS-NBS 14, Washington, D.C. ¡br¿U.S. Government Printing Office, (1967)

Li-Am	Energy Levels, Wavelengths	Exp

176. C. J. Humphreys
Interferometric Determinations of Wavelengths in Ar, Kr 86 and Xe 136 in the Region between 1.2 and 3.5 μ
Transact. Int. Astron. Union 12B, 178-181 (1966)

Ar	Energy Levels, Wavelengths	Exp
Kr	Energy Levels, Wavelengths	Exp
Xe	Energy Levels, Wavelengths	Exp

177. B. Budick
Lifetime and Hyperfine Structure of the 3 $^2D_{5/2}$ State in Aluminum
Bull. Am. Phys. Soc., Ser. II 11, 465 (1966)

Al	Energy Levels, Wavelengths	Exp

178. J. R. Crespo López-Urrutia, P. Beiersdorfer
Measurement of the radiative decay rate of the metastable $(2s^2 2p^5_{3/2} 3s_{1/2})_{(J=2)}$ level in Fe XVII
Astrophys. J. 721, 576-581 (2010)

Fe^{16+}	Trans. prob., Oscill. Strengths	Exp

179. E. Landi, P. R. Young
New Fe VIII line identifications using observations of the quiet sun
Astrophys. J. 713, 205-211 (2010)

Fe^{7+}	Trans. prob., Oscill. Strengths	Th

180. J. D. Destree, K. E. Williamson, T. P. Snow
Detection in the interstellar medium of the weak [Mg II] transition at 1398.8 Å
Astrophys. J. 712, L48-L52 (2010)

Mg^+	Trans. prob., Oscill. Strengths	Exp

181. N. C. Deb, A. Hibbert
Calculation of intensity ratios of observed infrared [Fe II] lines
Astrophys. J. 711, L104-L107 (2010)

Fe^+	Trans. prob., Oscill. Strengths	Th

182. N. C. Deb, A. Hibbert
Importance of level mixing on accurate [Fe II] transition rates
Astron. Astrophys. 524, p.A54 (2010)

Fe^+	Trans. prob., Oscill. Strengths	Th

183. G. Del Zanna
Benchmarking atomic data for astrophysics: Fe XI
Astron. Astrophys. 514, p.A41 (2010)

Fe^{10+}	Trans. prob., Oscill. Strengths	Th

184. G. Del Zanna, P. J. Storey, H. E. Mason
Atomic data from the IRON project – LXVIII. Electron impact excitation of Fe XI
Astron. Astrophys. 514, p.A40 (2010)

Fe^{10+}	Trans. prob., Oscill. Strengths	Th

185. H. Nilsson, H. Hartman, L. Engström, H. Lundberg, C. Sneden, V. Fivet, P. Palmeri, P. Quinet, É. Biémont
Transition probabilities of astrophysical interest in the niobium ions Nb^+ and Nb^{2+}
Astron. Astrophys. 511, p.A16 (2010)

Nb^+	Trans. prob., Oscill. Strengths	E/T
Nb^{2+}	Trans. prob., Oscill. Strengths	E/T

186. J. Gurell, H. Nilsson, L. Engström, H. Lundberg, R. Blackwell-Whitehead, K. E. Nielsen, S. Mannervik
The FERRUM project: laboratory-measured transition probabilities for Cr II
Astron. Astrophys. 511, p.A68 (2010)

Cr^+	Trans. prob., Oscill. Strengths	Exp

187. P. J. Storey, C. J. Zeippen
Atomic data from the IRON project. LXVII. Electron impact excitation of Fe XIII
Astron. Astrophys. 511, p.A78 (2010)

Fe^{12+}	Trans. prob., Oscill. Strengths	Th

188. M. A. Ali, P. M. Stone
Excitation of the $3p^5 5p$ levels of argon from the $3p^5 4s$ metastables
Int. J. Mass Spectrom. 294, 59-64 (2010)

Ar	Trans. prob., Oscill. Strengths	Th

189. G. Y. Liang, N. R. Badnell, J. R. Crespo López-Urrutia, T. M. Baumann, G. Del Zanna, P. J. Storey, H. Tawara, J. Ullrich
R-Matrix electron-impact excitation of Fe^{13+} and its application to the soft X-ray and extreme-ultraviolet spectroscopy of corona-like plasmas
Astrophys. J., Suppl. Ser. 190, 322-333 (2010)

Fe^{13+}	Trans. prob., Oscill. Strengths	Th

190. S. Kotochigova, M. Linnik, K. P. Kirby, N. S. Brickhouse
Radiative L-shell transitions in Fe XIX and Fe XX ions
Astrophys. J., Suppl. Ser. 186, 85-93 (2010)

Fe$^{18+-19+}$	Trans. prob., Oscill. Strengths	Th

191. C.-Y. Chen, K. Wang, M. Huang, Y.-S. Wang, Y.-M. Zou
Radiative rates and electron impact excitation rate coefficients for H-like Fe XXVI
J. Quant. Spectrosc. Radiat. Transfer 111, 843-856 (2010)

Fe^{25+}	Trans. prob., Oscill. Strengths	Th

192. K. R. Karim
Z dependence of radiative and Auger transitions rates from doubly excited 3l3l′ states of helium-like ions
J. Quant. Spectrosc. Radiat. Transfer 111, 384-393 (2010)

He Z= 18-28 step 2	Trans. prob., Oscill. Strengths	Th
Ne^{8+}	Trans. prob., Oscill. Strengths	Th
Si^{12+}	Trans. prob., Oscill. Strengths	Th

193. L. Zhuo, F. Chen, B. C. Gou
High-Lying core-excited quartet states in Li-like N^{4+} and F^{6+} ions
Int. J. Quantum Chem. 110, 1108-1116 (2010)

N^{4+}	Trans. prob., Oscill. Strengths	Th
F^{6+}	Trans. prob., Oscill. Strengths	Th

194. S. N. Nahar
Oscillator strengths and transition probabilities of O II
At. Data Nucl. Data Tables 96, 863-877 (2010)

O^{+}	Trans. prob., Oscill. Strengths	Th

195. J. Singh, A. K. S. Jha, N. Verma, M. Mohan
New atomic data for Ti X
At. Data Nucl. Data Tables 96, 759-816 (2010)

Ti^{9+}	Trans. prob., Oscill. Strengths	Th

196. N. C. Deb, A. Hibbert
Electric-Dipole allowed and intercombination transitions among the 3d^5, 3d^{4}4s and 3d^{4}4p levels of Fe IV
At. Data Nucl. Data Tables 96, 358-480 (2010)

Fe^{3+}	Trans. prob., Oscill. Strengths	Th

197. P. Jönsson, J.-G. Li, G. Gaigalas, C.-Z. Dong
Hyperfine structures, isotope shifts, and transition rates of C II, N III, and O IV from relativistic configuration interaction calculations
At. Data Nucl. Data Tables 96, 271-298 (2010)

C^{+}	Trans. prob., Oscill. Strengths	Th
N^{2+}	Trans. prob., Oscill. Strengths	Th
O^{3+}	Trans. prob., Oscill. Strengths	Th

198. K. M. Aggarwal, F. P. Keenan, K. D. Lawson
Energy levels and radiative rates for transitions in B-like to F-like Xe ions (Xe L–XLVI)
At. Data Nucl. Data Tables 96, 123-270 (2010)

Xe$^{45+-49+}$	Trans. prob., Oscill. Strengths	Th

199. E. Landi, A. K. Bhatia
Atomic data and spectral line intensities for Ni XIV
At. Data Nucl. Data Tables 96, 52-84 (2010)

Ni^{13+}	Trans. prob., Oscill. Strengths	Th

200. S. N. Nahar
Allowed and forbidden transition parameters for Fe XXII
At. Data Nucl. Data Tables 96, 26-51 (2010)

Fe^{21+}	Trans. prob., Oscill. Strengths	Th

201. H.-C. Chi, H.-S. Chou
Theoretical oscillator strengths for spin-allowed electric-dipole transitions in Zn-like ions
Phys. Rev. A 82, 032518 (2010)

Zn	Trans. prob., Oscill. Strengths	Th
Ge^{2+}	Trans. prob., Oscill. Strengths	Th
As^{3+}	Trans. prob., Oscill. Strengths	Th
Kr^{6+}	Trans. prob., Oscill. Strengths	Th
Nb^{11+}	Trans. prob., Oscill. Strengths	Th
Mo^{12+}	Trans. prob., Oscill. Strengths	Th

202. J. M. Bridges, W. L. Wiese
Transition probability measurements for some strong and weak lines of N I
Phys. Rev. A 82, 024502 (2010)

N	Trans. prob., Oscill. Strengths	Exp

203. G. Gaigalas, Z. Rudzikas, E. Gaidamauskas, P. Rynkun, A. Alkauskas
Pecularities of spectroscopic properties of W^{24+}
Phys. Rev. A 82, 014502 (2010)

W^{24+}	Trans. prob., Oscill. Strengths	Th

204. R. K. Gangwar, L. Sharma, R. Srivastava, A. D. Stauffer
Electron-Impact excitation of argon: Cross sections of interest in plasma modeling
Phys. Rev. A 81, 052707 (2010)

Ar	Trans. prob., Oscill. Strengths	Th

205. G. P. Gupta, A. Z. Msezane
Fine-Structure energy levels and radiative decay rates in Al-like vanadium
Phys. Scr. 81, 045302 (2010)

V^{10+}	Trans. prob., Oscill. Strengths	Th

206. L.-H. Hao, G. Jiang, H.-J. Hou
Effects of valence-valence, core-valence, and core-core correlations on the fine-structure energy levels in Al-like ions
Phys. Rev. A 81, 022502 (2010)

Fe^{13+}	Trans. prob., Oscill. Strengths	Th
Ni^{15+}	Trans. prob., Oscill. Strengths	Th
Se^{21+}	Trans. prob., Oscill. Strengths	Th
Kr^{23+}	Trans. prob., Oscill. Strengths	Th
Zr^{27+}	Trans. prob., Oscill. Strengths	Th
Mo^{29+}	Trans. prob., Oscill. Strengths	Th
Xe^{41+}	Trans. prob., Oscill. Strengths	Th
Au^{66+}	Trans. prob., Oscill. Strengths	Th

207. K. M. Aggarwal, F. P. Keenan, R. F. Heeter
Energy levels, radiative rates and electron impact excitation rates for transitions in Li-like N V, F VII, Ne VIII and Na IX
Phys. Scr. 81, 015303 (2010)

$\mathbf{N}^{4+}$	Trans. prob., Oscill. Strengths	Th
$\mathbf{F}^{6+}$	Trans. prob., Oscill. Strengths	Th
$\mathbf{Ne}^{7+}$	Trans. prob., Oscill. Strengths	Th
$\mathbf{Na}^{8+}$	Trans. prob., Oscill. Strengths	Th

208. V. Jonauskas, R. Kisielius, A. Kynienė, S. Kučas, P. H. Norrington
Magnetic dipole transitions in $4d^N$ configurations of tungsten ions
Phys. Rev. A 81, 012506 (2010)

$\mathbf{W}^{29+-37+}$	Trans. prob., Oscill. Strengths	Th

209. A. Baclawski, J. Musielok
Measurements of transition probabilities for two N I infrared transitions and their application for diagnostics of low temperature plasmas
Spectrochimica Acta, Part B 65, 113-119 (2010)

N	Trans. prob., Oscill. Strengths	Exp

210. S. Djeniže, A. Srećković, S. Bukvić
On the line intensity ratios of prominent Si II, Si III, and Si IV multiplets
Spectrochimica Acta, Part B 65, 61-65 (2010)

$\mathbf{Si}^{+}$	Trans. prob., Oscill. Strengths	Exp
$\mathbf{Si}^{+-3+}$	Trans. prob., Oscill. Strengths	Exp

211. S. Karmakar, M. B. Das
Experimental lifetimes of some levels belonging to the $4p^4 5p$ configuration of Kr II using the cascade-photon-coincidence technique
Eur. Phys. J. D 59, 361-365 (2010)

$\mathbf{Kr}^{+}$	Trans. prob., Oscill. Strengths	Exp

212. A. E. Kingston, A. Hibbert
Transitions between the $3p^6ns$ and $3p^6mp$ states of Ti IV
J. Phys. B 43, 165003 (2010)

$\mathbf{Ti}^{3+}$	Trans. prob., Oscill. Strengths	Th

213. P. Quinet, V. Vinogradoff, P. Palmeri, É. Biémont
Radiative decay rates for W I, W II and W III allowed and forbidden transitions of interest for spectroscopic diagnostics in fusion plasmas
J. Phys. B 43, 144003 (2010)

$\mathbf{W}^{0+-2+}$	Trans. prob., Oscill. Strengths	E/T

214. U. I. Safronova, A. S. Safronova, W. R. Johnson
Relativistic many-body calculations of dielectronic satellite spectra created by autoionizing 1s2l2l′ states in Li-like ions
J. Phys. B 43, 144001 (2010)

$\mathbf{Fe}^{23+}$	Trans. prob., Oscill. Strengths	Th
$\mathbf{Mo}^{39+}$	Trans. prob., Oscill. Strengths	Th
$\mathbf{Pr}^{56+}$	Trans. prob., Oscill. Strengths	Th
$\mathbf{W}^{71+}$	Trans. prob., Oscill. Strengths	Th

215. I. L. Glukhov, E. A. Nekipelov, V. D. Ovsiannikov
Blackbody-Induced decay, excitation and ionization rates for Rydberg states in hydrogen and helium atoms
J. Phys. B 43, 125002 (2010)

H	Trans. prob., Oscill. Strengths	Th
He	Trans. prob., Oscill. Strengths	Th

216. J. Singh, A. K. S. Jha, M. Mohan
Lifetime for the Ti X spectrum
J. Phys. B 43, 115005 (2010)

Ti^{9+}	Trans. prob., Oscill. Strengths	Th

217. H.-H. Kang, J.-G. Li, C.-Z. Dong, G. Gaigalas
The effect of hyperfine interaction on the lifetime of the 3s3p ^{3}P$_2$ level of Mg-like ions
J. Phys. B 43, 095003 (2010)

Al^{+}	Trans. prob., Oscill. Strengths	Th
Si^{2+}	Trans. prob., Oscill. Strengths	Th
Ar^{6+}	Trans. prob., Oscill. Strengths	Th
Ca^{8+}	Trans. prob., Oscill. Strengths	Th
Fe^{14+}	Trans. prob., Oscill. Strengths	Th
Cu^{17+}	Trans. prob., Oscill. Strengths	Th
Zn^{18+}	Trans. prob., Oscill. Strengths	Th
Br^{23+}	Trans. prob., Oscill. Strengths	Th
Ag^{35+}	Trans. prob., Oscill. Strengths	Th
I^{41+}	Trans. prob., Oscill. Strengths	Th
Pr^{47+}	Trans. prob., Oscill. Strengths	Th
Gd^{52+}	Trans. prob., Oscill. Strengths	Th
Yb^{58+}	Trans. prob., Oscill. Strengths	Th
Lu^{59+}	Trans. prob., Oscill. Strengths	Th
Pt^{66+}	Trans. prob., Oscill. Strengths	Th

218. M. Andersson, Y.-M. Zou, R. Hutton, T. Brage
Hyperfine dependent lifetimes in Mg-like ions
J. Phys. B 43, 095001 (2010)

Mg Z= 12-17	Trans. prob., Oscill. Strengths	Th
Mg Z= 19-31	Trans. prob., Oscill. Strengths	Th
Mg	Trans. prob., Oscill. Strengths	Th
Al^{+}	Trans. prob., Oscill. Strengths	Th
Si^{2+}	Trans. prob., Oscill. Strengths	Th
P^{3+}	Trans. prob., Oscill. Strengths	Th
S^{4+}	Trans. prob., Oscill. Strengths	Th
Cl^{5+}	Trans. prob., Oscill. Strengths	Th
K^{7+}	Trans. prob., Oscill. Strengths	Th
Ca^{8+}	Trans. prob., Oscill. Strengths	Th
Sc^{9+}	Trans. prob., Oscill. Strengths	Th
Ti^{10+}	Trans. prob., Oscill. Strengths	Th
V^{11+}	Trans. prob., Oscill. Strengths	Th
Cr^{12+}	Trans. prob., Oscill. Strengths	Th
Mn^{13+}	Trans. prob., Oscill. Strengths	Th
Fe^{14+}	Trans. prob., Oscill. Strengths	Th
Co^{15+}	Trans. prob., Oscill. Strengths	Th
Ni^{16+}	Trans. prob., Oscill. Strengths	Th
Cu^{17+}	Trans. prob., Oscill. Strengths	Th
Zn^{18+}	Trans. prob., Oscill. Strengths	Th
Ga^{19+}	Trans. prob., Oscill. Strengths	Th

219. H. Lundberg, L. Engström, H. Hartman, H. Nilsson, P. Palmeri, P. Quinet, É. Biémont
Lifetime measurements and transition probabilities in Mo II
J. Phys. B 43, 085004 (2010)

Mo^{+}	Trans. prob., Oscill. Strengths	E/T

220. R. Karpuškienė, O. Rancova, P. Bogdanovich
An ab initio study of the spectral properties of W II
J. Phys. B 43, 085002 (2010)

W^{+}	Trans. prob., Oscill. Strengths	Th

221. J. A. Ludlow, C. P. Ballance, S. D. Loch, M. S. Pindzola
Breit-Pauli R-matrix electron-impact excitation calculations along the argon isonuclear sequence
J. Phys. B 43, 074029 (2010)

Ar^{3+-5+}	Trans. prob., Oscill. Strengths	Th
Ar^{7+-8+}	Trans. prob., Oscill. Strengths	Th
Ar$^{10+-14+}$	Trans. prob., Oscill. Strengths	Th
Ar^{17+}	Trans. prob., Oscill. Strengths	Th

222. U. I. Safronova, A. S. Safronova
Wavelengths and transition rates for nl–n′l′ transitions in Be-, B-, Mg-, Al-, Ca-, Zn-, Ag- and Yb-like tungsten ions
J. Phys. B 43, 074026 (2010)

W^{4+}	Trans. prob., Oscill. Strengths	Th
W^{27+}	Trans. prob., Oscill. Strengths	Th
W^{44+}	Trans. prob., Oscill. Strengths	Th
W^{54+}	Trans. prob., Oscill. Strengths	Th
W^{61+}	Trans. prob., Oscill. Strengths	Th
W^{62+}	Trans. prob., Oscill. Strengths	Th
W^{69+}	Trans. prob., Oscill. Strengths	Th
W^{70+}	Trans. prob., Oscill. Strengths	Th

223. U. I. Safronova, M. S. Safronova
Relativistic many-body calculations of the oscillator strengths, transition rates and polarizabilities in Zn-like ions
J. Phys. B 43, 074025 (2010)

Zn Z= 32-100	Trans. prob., Oscill. Strengths	Th

224. J. Reader
Spectrum and energy levels of five-times ionized molybdenum, Mo VI
J. Phys. B 43, 074024 (2010)

Mo^{5+}	Trans. prob., Oscill. Strengths	Th

225. P. Jönsson, J. Bieroń
Relativistic configuration interaction calculations of energy levels, isotope shifts, hyperfine structures, and transition rates in the $2s^2 2p^2$–$2s2p^3$ transition array for the carbon-like sequence
J. Phys. B 43, 074023 (2010)

N^{+}	Trans. prob., Oscill. Strengths	Th
O^{2+}	Trans. prob., Oscill. Strengths	Th
F^{3+}	Trans. prob., Oscill. Strengths	Th
Ne^{4+}	Trans. prob., Oscill. Strengths	Th
Ti^{16+}	Trans. prob., Oscill. Strengths	Th

226. Y. Ishikawa, J. A. Santana, E. Träbert
Relativistic multireference many-body perturbation theory for open-shell ions with multiple valence shell electrons: The transition rates and lifetimes of the excited levels in chlorinelike Fe X
J. Phys. B 43, 074022 (2010)

Fe^{9+}	Trans. prob., Oscill. Strengths	Th

227. C. Froese Fischer
Towards accurate transition data for $3p^2$, $3p^3$, $3p^4$ levels of Fe, Co and Ni ions
J. Phys. B 43, 074020 (2010)

Si Z= 26-28	Trans. prob., Oscill. Strengths	Th
S Z= 26-28	Trans. prob., Oscill. Strengths	Th
P Z= 26-28	Trans. prob., Oscill. Strengths	Th

228. M. H. Chen, K. T. Cheng
A large-scale relativistic configuration-interaction approach: Application to the $4s^2$-4s4p transition energies and E1 rates for Zn-like ions
J. Phys. B 43, 074019 (2010)

Zn Z= 30-92	Trans. prob., Oscill. Strengths	Th

229. J.-F. Wyart
Interpretation of the odd parity energy levels in the spectrum of neutral tungsten
J. Phys. B 43, 074018 (2010)

W	Trans. prob., Oscill. Strengths	Th

230. J.-G. Li, P. Jönsson, C.-Z. Dong, G. Gaigalas
Two-Electron–One-Photon M1 and E2 transitions between the states of the $2p^3$ and $2s^22p$ odd configurations for B-like ions with $18 \leq Z \leq 92$
J. Phys. B 43, 035005 (2010)

Ar^{13+}	Trans. prob., Oscill. Strengths	Th
Fe^{21+}	Trans. prob., Oscill. Strengths	Th
Kr^{31+}	Trans. prob., Oscill. Strengths	Th
Mo^{37+}	Trans. prob., Oscill. Strengths	Th
Xe^{49+}	Trans. prob., Oscill. Strengths	Th
Eu^{58+}	Trans. prob., Oscill. Strengths	Th
W^{69+}	Trans. prob., Oscill. Strengths	Th
Hg^{75+}	Trans. prob., Oscill. Strengths	Th
U^{87+}	Trans. prob., Oscill. Strengths	Th

231. J. R. Fuhr, W. L. Wiese
Tables of atomic transition probabilities for beryllium and boron
J. Phys. Chem. Ref. Data 39, 013101 (2010)

Be^{0+-2+}	Trans. prob., Oscill. Strengths	E/T
B^{0+-3+}	Trans. prob., Oscill. Strengths	E/T

232. X.-Z. Shen, P. Yuan, J. Liu
Electric-Dipole allowed (E1) and forbidden (E2, M1 and M2) transition probabilities of 4f for N^+
Chin. Phys. B 19, 053101 (2010)

N^+	Trans. prob., Oscill. Strengths	Th

233. D. Dodt, A. Dinklage, K. Bartschat, O. Zatsarinny
Validation of atomic data using a plasma discharge
New J. Phys. 12, 073018 (2010)

Ne	Trans. prob., Oscill. Strengths	E/T

234. J.-G. Li, C.-Z. Dong
Interference Effects in Hyperfine Induced 2s2p $^3P_0$, $^3P_2 \rightarrow 2s^2\ ^1S_0$ Transitions of Be-like Ions
Plasma Sci. Technol. 12, 364-368 (2010)

C^{2+}	Trans. prob., Oscill. Strengths	Th
N^{3+}	Trans. prob., Oscill. Strengths	Th
F^{5+}	Trans. prob., Oscill. Strengths	Th
Si^{10+}	Trans. prob., Oscill. Strengths	Th
Ar^{14+}	Trans. prob., Oscill. Strengths	Th
Ti^{18+}	Trans. prob., Oscill. Strengths	Th
Fe^{22+}	Trans. prob., Oscill. Strengths	Th
Zn^{26+}	Trans. prob., Oscill. Strengths	Th
Rb^{33+}	Trans. prob., Oscill. Strengths	Th
Rh^{41+}	Trans. prob., Oscill. Strengths	Th
Xe^{50+}	Trans. prob., Oscill. Strengths	Th

235. E. Landi, P. R. Young
New Fe IX line identifications using Solar and Heliospheric Observatory/Solar Ultraviolet Measurement of Emitted Radiation and Hinode/EIS
Astrophys. J. 707, 1191-1200 (2009)

Fe^{8+}	Trans. prob., Oscill. Strengths	Th

236. M. A. Bautista, P. Quinet, P. Palmeri, N. R. Badnell, J. Dunn, N. Arav
Radiative transition rates and collision strengths for Si II
Astron. Astrophys. 508, 1527-1537 (2009)

Si^{+}	Trans. prob., Oscill. Strengths	Th

237. J. Gurell, H. Hartman, R. Blackwell-Whitehead, H. Nilsson, E. Bäckström, L. O. Norlin, P. Royen, S. Mannervik
The FERRUM project: Transition probabilities for forbidden lines in [Fe II] and experimental metastable lifetimes
Astron. Astrophys. 508, 525-529 (2009)

Fe^{+}	Trans. prob., Oscill. Strengths	Exp

238. G. Del Zanna
Benchmarking atomic data for astrophysics: Fe VIII EUV lines
Astron. Astrophys. 508, 513-524 (2009)

Fe^{7+}	Trans. prob., Oscill. Strengths	Th

239. G. Del Zanna
Benchmarking atomic data for astrophysics: Fe VII and other cool lines observed by Hinode EIS
Astron. Astrophys. 508, 501-511 (2009)

Fe^{6+}	Trans. prob., Oscill. Strengths	Th

240. F. Castelli, R. L. Kurucz, S. Hubrig
New identified (^{3}H)4d-(^{3}H)4f transitions of Fe II from UVES spectra of HR 6000 and 46 Aquilae
Astron. Astrophys. 508, 401-408 (2009)

Fe^{+}	Trans. prob., Oscill. Strengths	Th

241. K. M. Aggarwal, T. Kato, F. P. Keenan, I. Murakami
Radiative rates and electron impact excitation rates for transitions in Cr VIII
Astron. Astrophys. 506, 1501-1509 (2009)

Cr^{7+}	Trans. prob., Oscill. Strengths	Th

242. J. García, T. R. Kallman, M. Witthoeft, E. Behar, C. Mendoza, P. Palmeri, P. Quinet, M. A. Bautista, M. Klapisch
Nitrogen K-shell photoabsorption
Astrophys. J., Suppl. Ser. 185, 477-485 (2009)

N^{0+-6+}	Trans. prob., Oscill. Strengths	Th

243. C. A. Ramsbottom
Electron-Impact excitation of Fe II: Effective collision strengths for optically allowed fine-structure transitions
At. Data Nucl. Data Tables 95, 910-986 (2009)

Fe^{+}	Trans. prob., Oscill. Strengths	Th

244. U. I. Safronova, A. S. Safronova, P. Beiersdorfer
Excitation energies, radiative and autoionization rates, dielectronic satellite lines, and dielectronic recombination rates for excited states of Na-like W from Ne-like W
At. Data Nucl. Data Tables 95, 751-785 (2009)

W^{63+}	Trans. prob., Oscill. Strengths	Th

245. R. L. Gattinger, N. D. Lloyd, A. E. Bourassa, D. A. Degenstein, I. C. McDade, E. J. Llewellyn
Observation of the 557.7 nm to 297.2 nm brightness ratio in the auroral spectrum with OSIRIS on Odin
Can. J. Phys. 87, 1133-1137 (2009)

O	Trans. prob., Oscill. Strengths	Exp

246. G. P. Gupta, A. Z. Msezane
Large-Scale CIV3 calculations of fine-structure energy levels and radiative rates in Al-like copper
Can. J. Phys. 87, 895-907 (2009)

Cu^{16+}	Trans. prob., Oscill. Strengths	Th

247. V. Tayal, G. P. Gupta, A. N. Tripathi
Energy levels, oscillator strengths and lifetimes in Ar V
Indian J. Phys. 83, 1271-1288 (2009)

Ar^{4+}	Trans. prob., Oscill. Strengths	Th

248. V. Tayal, G. P. Gupta
Fine-Structure energy levels, oscillator strengths and lifetimes in Cu XVIII
Phys. Scr. 80, 055301 (2009)

Cu^{17+}	Trans. prob., Oscill. Strengths	Th

249. Y. Podpaly, J. Clementson, P. Beiersdorfer, J. Williamson, G. V. Brown, M. F. Gu
Spectroscopy of $2s_{1/2}$–$2p_{3/2}$ transitions in W^{65+} through W^{71+}
Phys. Rev. A 80, 052504 (2009)

$W^{65+-71+}$	Trans. prob., Oscill. Strengths	Th

250. K. M. Aggarwal, F. P. Keenan, R. F. Heeter
Energy levels, radiative rates and electron impact excitation rates for transitions in He-like N VI, F VIII and Na X
Phys. Scr. 80, 045301 (2009)

N^{5+}	Trans. prob., Oscill. Strengths	Th
F^{7+}	Trans. prob., Oscill. Strengths	Th
Na^{9+}	Trans. prob., Oscill. Strengths	Th

251. L. Głowacki, J. Migdałek
Relativistic configuration-interaction oscillator strengths for lowest E1 transitions in silver and gold isoelectronic sequences
Phys. Rev. A 80, 042505 (2009)

Ag Z= 47-57	Trans. prob., Oscill. Strengths	Th
Au Z= 79-83	Trans. prob., Oscill. Strengths	Th

252. S. S. Tayal
Transition rates of electric-dipole-forbidden M1, E2, and M2 transitions in iron ions Fe^{13+} and Fe^{11+}
Phys. Rev. A 80, 032512 (2009)

Fe^{11+}	Trans. prob., Oscill. Strengths	Th
Fe^{13+}	Trans. prob., Oscill. Strengths	Th

253. L. Zhuo, B. C. Gou, J. J. Zhu
Inner-Shell excited quartet states in Li-like O^{5+} and Ne^{7+} ions
Eur. Phys. J. D 54, 1-8 (2009)

O^{5+}	Trans. prob., Oscill. Strengths	Th
Ne^{7+}	Trans. prob., Oscill. Strengths	Th

254. D. C. Griffin, C. P. Ballance
Relativistic radiatively damped R-matrix calculations of the electron-impact excitation of helium-like iron
J. Phys. B 42, 235201 (2009)

Fe^{24+}	Trans. prob., Oscill. Strengths	Th
Kr^{34+}	Trans. prob., Oscill. Strengths	Th

255. G. Y. Liang, A. D. Whiteford, N. R. Badnell
R-Matrix inner-shell electron-impact excitation of the Na-like iso-electronic sequence
J. Phys. B 42, 225002 (2009)

Si^{3+}	Trans. prob., Oscill. Strengths	Th
Ar^{7+}	Trans. prob., Oscill. Strengths	Th
Ti^{11+}	Trans. prob., Oscill. Strengths	Th
Zn^{19+}	Trans. prob., Oscill. Strengths	Th

256. M. Raineri, M. Gallardo, S. Padilla, J. Reyna Almandos
New energy levels, lifetimes and transition probabilities in four times ionized xenon (Xe V)
J. Phys. B 42, 205004 (2009)

Xe^{4+}	Trans. prob., Oscill. Strengths	Th

257. H.-H. Kang, J.-G. Li, C.-Z. Dong, P. Jönsson, G. Gaigalas
Hyperfine quenching of the 3s3p $^3P_0$ level in Mg-like ions
J. Phys. B 42, 195002 (2009)

Mg Z= 12-80	Trans. prob., Oscill. Strengths	Th

258. V. F. Tarasov
Multipole matrix element $<nl|r^{\beta}\ |n'l'>_{\nu}$ for H-like atoms, their asymptotics and applications (as $\beta = 1$, $n \leq 4$, $n' \leq 10$)
Int. J. Mod. Phys. B 23, 2041-2067 (2009)

H Z= 1-100	Trans. prob., Oscill. Strengths	Th

259. J. He, Q.-G. Zhang, Q.-D. Chen
The resonance escape factor and density spatial distribution of Li 670.970 nm resonance lines
Mod. Phys. Lett. B 23, 1189-1197 (2009)

Li	Trans. prob., Oscill. Strengths	Th

260. R. Centeno, H. Socas-Navarro
A new approach to the solar oxygen abundance problem
Astrophys. J. 682, L61-L64 (2008)

Fe	Trans. prob., Oscill. Strengths	Exp

261. F. T. Jin, J. L. Zeng, J. M. Yuan
Detailed diagnostics of a laser produced aluminum plasma by the K_{α} satellites
J. Quant. Spectrosc. Radiat. Transfer 109, 2707-2714 (2008)

Al^{9+}	Trans. prob., Oscill. Strengths	Th

262. G. Buica, T. Nakajima
Two-, three-, and four-photon ionization of Mg in the circularly and linearly polarized laser fields: Comparative study using the Hartree-Fock and model potentials
J. Quant. Spectrosc. Radiat. Transfer 109, 107-118 (2008)

Mg	Trans. prob., Oscill. Strengths	Th

263. M. F. Gu
The flexible atomic code
Can. J. Phys. 86, 675-689 (2008)

Fe^{19+}	Trans. prob., Oscill. Strengths	Th

264. C. Gao, J. L. Zeng
Spectrally resolved and Rosseland and Planck mean opacities of iron plasmas at temperatures above 100 eV: A systematic study
Phys. Rev. E 78, 046407 (2008)

Fe^{17+}	Trans. prob., Oscill. Strengths	Th

265. M. F. Hasoğlu, D. Nikolić, T. W. Gorczyca, S. T. Manson, M. H. Chen, N. R. Badnell
Nonmonotonic behavior as a function of nuclear charge of the K-shell Auger and radiative rates and fluorescence yields along the $1s2s^22p^3$ isoelectronic sequence
Phys. Rev. A 78, 032509 (2008)

C Z= 6-30	Trans. prob., Oscill. Strengths	Th

266. M. Maslov, M. J. Brunger, P. J. O. Teubner, O. Zatsarinny, K. Bartschat, D. Fursa, I. Bray, R. P. McEachran
Electron-Impact excitation of the $(5d^{10}6s)^2S_{1/2} \rightarrow (5d^{10}6p)^2P_{1/2,3/2}$ resonance transitions in gold atoms
Phys. Rev. A 77, 062711 (2008)

Au	Trans. prob., Oscill. Strengths	Th

267. B. L. Sharp, P. S. Goodall, L. M. Ignjatovic, H.-G. Teng
Coincidence laser spectroscopy (CLS) for the detection of ions in ICP-MS (ICP-MS-CLS). A feasibility study
J. Anal. At. Spectrom. 22, 1447-1470 (2007)

Fe^{+}	Trans. prob., Oscill. Strengths	Th
Tc^{+}	Trans. prob., Oscill. Strengths	Th
Pm^{+}	Trans. prob., Oscill. Strengths	Th
Pu^{+}	Trans. prob., Oscill. Strengths	Th

268. Z.-S. Jiang, S. Kar, Y. K. Ho
Wavelengths for 2pnp $^1P^e \rightarrow$ 2pnd $^1D^\circ$ and 2pnp $^3P^e \rightarrow$ 2pnd $^3D^\circ$ Transitions in Li II, Be III, B IV, C V Using Correlated Exponential Wave Functions
J. Quant. Spectrosc. Radiat. Transfer 113, 75-81 (2012)

He Z= 3-6	Energy Levels, Wavelengths	Th

269. L. Liang, W.-J. Gao, C. Zhou, L. Zhang
Calculation of Fine-Structure Energy Levels and Autoionizing Widths for the Magnesium-like Ions Ti XI and Fe XV
At. Data Nucl. Data Tables 98, 63-73 (2012)

Ti^{10+}	Energy Levels, Wavelengths	Th
Fe^{14+}	Energy Levels, Wavelengths	Th

270. I. Murakami, D. Kato, M. Kato, H. A. Sakaue, T. Kato, X.-B. Ding, S. Morita, M. Kitajima, F. Koike, N. Nakamura, N. Sakamoto, A. Sasaki, I. Skobelev, H. Tsuchida, A. Ulantsev, T. Watanabe, N. Yamamoto
Database and Related Activities in Japan
AIP Conf. Proc. 1344, 96-106 (2011)

W^{26+}	Energy Levels, Wavelengths	Exp

271. A. Kramida
Recent Developments in the NIST Atomic Databases
AIP Conf. Proc. 1344, 81-95 (2011)

Na^{+}	Energy Levels, Wavelengths	E/T
K^{16+}	Energy Levels, Wavelengths	E/T
Fe	Energy Levels, Wavelengths	E/T
Hg	Energy Levels, Wavelengths	E/T

272. P. Oliver, A. Hibbert
Detailed Atomic Structure of Neutral and Near-Neutral Systems
AIP Conf. Proc. 1344, 70-77 (2011)

Cl	Energy Levels, Wavelengths	E/T
Sn^{+}	Energy Levels, Wavelengths	E/T

273. A. R. Foster, P. Testa
Fe IX Calculations for the Solar Dynamics Observatory
Astrophys. J. 740, L52 (2011)

Fe^{8+}	Energy Levels, Wavelengths	Th

274. N. Nakamura, E. Watanabe, H. A. Sakaue, D. Kato, I. Murakami, N. Yamamoto, H. Hara, T. Watanabe
Intensity Ratio of Density-Sensitive Lines in Fe Ions Observed with a Well-Defined Laboratory Plasma
Astrophys. J. 739, 17 (2011)

Fe^{12+}	Energy Levels, Wavelengths	Exp

275. M. F. Gu, P. Beiersdorfer, J. K. Lepson
Emission Line Spectra of Al IV–Al XI in the Extreme Ultraviolet Region 40–170 Å
Astrophys. J. 732, 91 (2011)

Al^{3+-10+}	Energy Levels, Wavelengths	Exp

276. J. D. Gillaspy, T. Lin, L. Tedesco, J. N. Tan, J. M. Pomeroy, J. M. Laming, N. Brickhouse, G.-X. Chen, E. Silver
Fe XVII X-ray Line Ratios for Accurate Astrophysical Plasma Diagnostics
Astrophys. J. 728, 132 (2011)

Fe^{16+}	Energy Levels, Wavelengths	Exp

277. P. Vingerhoets, K. T. Flanagan, J. Billowes, M. L. Bissell, K. Blaum, B. Cheal, M. De Rydt, D. H. Forest, Ch. Geppert, M. Honma, M. Kowalska, J. Krämer, K. Kreim, A. Krieger, R. Neugart, G. Neyens, W. Nörtershäuser, J. Papuga, T. J. Procter, M. M. Rajabali, R. Sánchez, H. H. Stroke, D. T. Yordanov
Magnetic and Quadrupole Moments of Neutron Deficient $^{58-62}$Cu Isotopes
Phys. Lett. B 703, 34-39 (2011)

Cu	Energy Levels, Wavelengths	Exp

278. G. Del Zanna
Benchmarking Atomic Data for Astrophysics: Fe XIII EUV Lines
Astron. Astrophys. 533, A12 (2011)

Fe^{12+}	Energy Levels, Wavelengths	Exp

279. K. Yüce, F. Castelli, S. Hubrig
Wavelengths and Oscillator Strengths of Xe II from the UVES Spectra of Four HgMn Stars
Astron. Astrophys. 528, A37 (2011)

Xe^{+}	Energy Levels, Wavelengths	Exp

280. G. Y. Liang, N. R. Badnell
R-Matrix Electron-Impact Excitation Data for the Li-like Iso-Electronic Sequence Including Auger and Radiation Damping
Astron. Astrophys. 528, A69 (2011)

Li Z= 4-36	Energy Levels, Wavelengths	Th

281. P. Palmeri, P. Quinet, C. Mendoza, M. A. Bautista, J. García, M. C. Witthoeft, T. R. Kallman
Atomic Decay Data for Modeling the Al K Lines
Astron. Astrophys. 525, A59 (2011)

Al^{2+-11+}	Energy Levels, Wavelengths	Th

282. P. R. Young, U. Feldman, A. Lobel
Forbidden and Intercombination Lines of RR Telescopii: Wavelength Measurements and Energy Levels
Astrophys. J., Suppl. Ser. 196, 23 (2011)

C^{+}	Energy Levels, Wavelengths	Exp
N^{+-2+}	Energy Levels, Wavelengths	Exp
N^{+-3+}	Energy Levels, Wavelengths	Exp
O^{+}	Energy Levels, Wavelengths	Exp
O^{3+}	Energy Levels, Wavelengths	Exp
O^{3+-4+}	Energy Levels, Wavelengths	Exp

Ne^{2+-4+}	Energy Levels, Wavelengths	Exp
Na^{3+-5+}	Energy Levels, Wavelengths	Exp
Mg^{4+-5+}	Energy Levels, Wavelengths	Exp
Al^{5+}	Energy Levels, Wavelengths	Exp
Si^{+-3+}	Energy Levels, Wavelengths	Exp
P^{3+}	Energy Levels, Wavelengths	Exp
S^{3+-4+}	Energy Levels, Wavelengths	Exp
Cl^{3+}	Energy Levels, Wavelengths	Exp
Ar^{2+-4+}	Energy Levels, Wavelengths	Exp
K^{3+-5+}	Energy Levels, Wavelengths	Exp
Ca^{4+-6+}	Energy Levels, Wavelengths	Exp

283. A. P. Thorne, J. C. Pickering, J. Semeniuk
The Spectrum and Term Analysis of V I
Astrophys. J., Suppl. Ser. 192, 11 (2011)

V	Energy Levels, Wavelengths	E/T

284. J. Yatsurugi, E. Watanabe, H. Ohashi, H. A. Sakaue, N. Nakamura
EUV Spectroscopy of Highly Charged Ions with High- and Low-Energy EBITs
Phys. Scr. T144, 014031 (2011)

Sn^{18+}	Energy Levels, Wavelengths	Exp
Sn$^{18+-21+}$	Energy Levels, Wavelengths	Exp
Sn^{19+}	Energy Levels, Wavelengths	Exp
Xe$^{22+-25+}$	Energy Levels, Wavelengths	Exp

285. H. Ohashi, S. Suda, H. Tanuma, S. Fujioka, H. Nishimura, K. Nishihara, H. A. Sakaue, N. Nakamura, S. Ohtani
EUV Emission Spectra of Iron Ions Following Charge Exchange Collisions with He
Phys. Scr. T144, 014030 (2011)

Fe^{3+-16+}	Energy Levels, Wavelengths	Exp

286. D. F. A. Winters, Th. Kühl, D. H. Schneider, P. Indelicato, R. Reuschl, R. Schuch, E. Lindroth, Th. Stöhlker
Laser Spectroscopy of the ($1s^2 2s2p$) $^3P_0$-$^3P_1$ Level Splitting in Be-like Krypton
Phys. Scr. T144, 014013 (2011)

Kr^{32+}	Energy Levels, Wavelengths	Th

287. A. Komatsu, J. Sakoda, N. Nakamura, H. A. Sakaue, X.-B. Ding, D. Kato, I. Murakami, F. Koike
Visible Spectroscopy of Highly Charged Tungsten Ions
Phys. Scr. T144, 014012 (2011)

W^{26+}	Energy Levels, Wavelengths	Exp

288. J. Sakoda, A. Komatsu, H. Kikuchi, N. Nakamura
Visible Spectroscopy of Rh-like Ions
Phys. Scr. T144, 014011 (2011)

Xe^{9+}	Energy Levels, Wavelengths	Exp
Ba^{11+}	Energy Levels, Wavelengths	Exp

289. F. Hu, J.-M. Yang, G. Jiang, C.-K. Wang, X.-F. Zhao
Wavelengths, Oscillator Strengths and Radiative Transition Rates for Kα Lines in Titanium X-ray Spectra
Phys. Scr. T144, 014006 (2011)

Ti$^{13+-20+}$	Energy Levels, Wavelengths	Th

290. Y. Sun, F. Chen, B. C. Gou
Energy Levels, Auger Branching Ratios, and Radiative Rates of the Core-Excited States of B-like Carbon
J. Chem. Phys. 135, 124309 (2011)

C^+	Energy Levels, Wavelengths	E/T

291. K. L. Sharkey, S. Bubin, L. Adamowicz
Refinement of the Experimental Energy Levels of Higher ^{2}D Rydberg States of the Lithium Atom with Very Accurate Quantum Mechanical Calculations
J. Chem. Phys. 134, 194114 (2011)

Li	Energy Levels, Wavelengths	E/T

292. S.-Z. Huang, Q.-F. Sun
Higher Order Two- and Three-Body Dispersion Coefficients for Alkali Isoelectronic Sequences by a Variationally Stable Procedure
J. Chem. Phys. 134, 144110 (2011)

Li	Energy Levels, Wavelengths	Th
Be^+	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
Mg^+	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Ca^+	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Sr^+	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Ba^+	Energy Levels, Wavelengths	Th

293. F. W. King, D. Quicker, J. Langer
Compact Wave Functions for the Beryllium Isoelectronic Series, Li^- to Ne^{6+}: A Standard Hylleraas Approach
J. Chem. Phys. 134, 124114 (2011)

Be Z= 3-10	Energy Levels, Wavelengths	Th

294. F. Hu, G. Jiang, J. M. Yang, J. Y. Zhang, X. F. Zhao
Energy Levels and Oscillator Strength of Ni XXIII
Acta Phys. Pol. A 120-3, 429-437 (2011)

Ni^{22+}	Energy Levels, Wavelengths	Th

295. T. Nandi, A. P. Mishra, B. N. Jagatap
Observation of Transitions Involving Core-Excited States in Ar III and Ar IV and High-Lying Singly Excited States in Ar I–Ar IV
J. Quant. Spectrosc. Radiat. Transfer 112, 2771-2778 (2011)

Ar^{0+-4+}	Energy Levels, Wavelengths	Exp

296. E. E. Farias, M. Raineri, M. Gallardo, J. Reyna Almandos, G. H. Cavalcanti, F. O. Borges, A. G. Trigueiros
New Energy Levels and Transitions for the 4s4p5p Configuration in Kr VI
J. Quant. Spectrosc. Radiat. Transfer 112, 2463-2468 (2011)

Kr^{5+}	Energy Levels, Wavelengths	E/T

297. V. A. Yerokhin, K. Pachucki, Z. Harman, C. H. Keitel
QED Theory of the Nuclear Magnetic Shielding in Hydrogenlike Ions
Phys. Rev. Lett. 107, 043004 (2011)

H Z= 8-92	Energy Levels, Wavelengths	Exp
O^{7+}	Energy Levels, Wavelengths	Exp
Ca^{19+}	Energy Levels, Wavelengths	Exp
Ge^{31+}	Energy Levels, Wavelengths	Exp
Xe^{53+}	Energy Levels, Wavelengths	Exp
Bi^{82+}	Energy Levels, Wavelengths	Exp

298. M. M. Sant'Anna, A. S. Schlachter, G. Öhrwall, W. C. Stolte, D. W. Lindle, B. M. McLaughlin
K-Shell X-ray Spectroscopy of Atomic Nitrogen
Phys. Rev. Lett. 107, 033001 (2011)

N^{+}	Energy Levels, Wavelengths	Exp

299. S. Sturm, A. Wagner, B. Schabinger, J. Zatorski, Z. Harman, W. Quint, G. Werth, C. H. Keitel, K. Blaum
g Factor of Hydrogenlike ^{28}Si^{13+}
Phys. Rev. Lett. 107, 023002 (2011)

Si^{13+}	Energy Levels, Wavelengths	Exp

300. C. J. Sansonetti, C. E. Simien, J. D. Gillaspy, J. N. Tan, S. M. Brewer, R. C. Brown, S.-J. Wu, J. V. Porto
Absolute Transition Frequencies and Quantum Interference in a Frequency Comb Based Measurement of the ^{6,7}Li D Lines
Phys. Rev. Lett. 107, 023001 (2011)

Li	Energy Levels, Wavelengths	Exp

301. J. C. Berengut, V. A. Dzuba, V. V. Flambaum, A. Ong
Electron-Hole Transitions in Multiply Charged Ions for Precision Laser Spectroscopy and Searching for Variations in α
Phys. Rev. Lett. 106, 210802 (2011)

W^{7+-8+}	Energy Levels, Wavelengths	Th
Ir$^{16+-17+}$	Energy Levels, Wavelengths	Th

302. E. Landi
Atomic Data and Spectral Line Intensities for Fe XV
At. Data Nucl. Data Tables 97, 587-647 (2011)

Fe^{14+}	Energy Levels, Wavelengths	E/T

303. S. S. Tayal
Transition Probabilities and Oscillator Strengths of E1 Transitions in Fe XII and Fe XIV
At. Data Nucl. Data Tables 97, 481-566 (2011)

Fe^{11+}	Energy Levels, Wavelengths	Th
Fe^{13+}	Energy Levels, Wavelengths	Th

304. E. P. Ivanova
Transition Probabilities for 5s-5p, 5p-5d, 4f-5d, and 5d-5f Transitions in Ag-like Ions with Z = 50–86
At. Data Nucl. Data Tables 97, 1-22 (2011)

Ag Z= 50-86	Energy Levels, Wavelengths	Th

305. L. Zhuo, B.-C. Gou, F. Wang
Energies and Auger Widths of the High-Lying Double-Excited States for Be-like Neon
Can. J. Phys. 89, 697-702 (2011)

Ne^{6+}	Energy Levels, Wavelengths	Th

306. E. Träbert, J. Clementson, P. Beiersdorfer, J. A. Santana, Y. Ishikawa
Measurements and Calculations of Zn-like Heavy Ions: An Update
Can. J. Phys. 89, 639-645 (2011)

Yb^{40+}	Energy Levels, Wavelengths	E/T
W^{44+}	Energy Levels, Wavelengths	E/T
Os^{46+}	Energy Levels, Wavelengths	E/T
Pt^{48+}	Energy Levels, Wavelengths	E/T
Au^{49+}	Energy Levels, Wavelengths	E/T
Pb^{52+}	Energy Levels, Wavelengths	E/T
Bi^{53+}	Energy Levels, Wavelengths	E/T
U^{62+}	Energy Levels, Wavelengths	E/T

307. A. T. Graf, M. J. May, P. Beiersdorfer, J. L. Terry
A Visible Spectral Survey from the Alcator C-Mod Tokamak
Can. J. Phys. 89, 825 (2011)

B^{+-2+}	Energy Levels, Wavelengths	Exp
B^{4+}	Energy Levels, Wavelengths	Exp
C^{+-2+}	Energy Levels, Wavelengths	Exp
N^{+-2+}	Energy Levels, Wavelengths	Exp
O^{+-3+}	Energy Levels, Wavelengths	Exp
F^{+-2+}	Energy Levels, Wavelengths	Exp
Ne	Energy Levels, Wavelengths	Exp
Na^{9+}	Energy Levels, Wavelengths	Exp
Al^{+-2+}	Energy Levels, Wavelengths	Exp
Si^{0+-1+}	Energy Levels, Wavelengths	Exp
Cl^{+-2+}	Energy Levels, Wavelengths	Exp
Ar^{0+-2+}	Energy Levels, Wavelengths	Exp
Ar^{9+}	Energy Levels, Wavelengths	Exp
Ti	Energy Levels, Wavelengths	Exp
Ti^{2+}	Energy Levels, Wavelengths	Exp
Fe^{0+-2+}	Energy Levels, Wavelengths	Exp
Cu	Energy Levels, Wavelengths	Exp
Cu^{2+}	Energy Levels, Wavelengths	Exp
Mo	Energy Levels, Wavelengths	Exp
W	Energy Levels, Wavelengths	Exp
D	Energy Levels, Wavelengths	Exp

308. G. C. Osborne, A. S. Safronova, V. L. Kantsyrev, U. I. Safronova, P. Beiersdorfer, K. M. Williamson, M. E. Weller, I. Shrestha
Spectroscopic Analysis and Modeling of Tungsten EBIT and Z-Pinch Plasma Experiments
Can. J. Phys. 89, 599-608 (2011)

W$^{42+-47+}$	Energy Levels, Wavelengths	Exp

309. Y. A. Podpaly, J. E. Rice, P. Beiersdorfer, M. L. Reinke, J. Clementson, H. S. Barnard
Tungsten Measurement on Alcator C-Mod and EBIT for Future Fusion Reactors
Can. J. Phys. 89, 591-597 (2011)

W$^{21+-22+}$	Energy Levels, Wavelengths	Exp
W$^{24+-25+}$	Energy Levels, Wavelengths	Exp
W$^{27+-29+}$	Energy Levels, Wavelengths	Exp
W$^{65+-71+}$	Energy Levels, Wavelengths	Exp

310. U. I. Safronova, A. S. Safronova, P. Beiersdorfer
Dielectronic Recombination and Satellite Line Spectra of Highly Charged Tungsten Ions
Can. J. Phys. 89, 581-589 (2011)

W^{62+}	Energy Levels, Wavelengths	Th
W^{63+}	Energy Levels, Wavelengths	Th
W^{71+}	Energy Levels, Wavelengths	Th

311. J. Clementson, P. Beiersdorfer, G. V. Brown, M. F. Gu, H. Lundberg, Y. Podpaly, E. Träbert
Tungsten Spectroscopy at the Livermore Electron Beam Ion Trap Facility
Can. J. Phys. 89, 571-580 (2011)

$W^{64+-71+}$	Energy Levels, Wavelengths	Exp
$W^{66+-71+}$	Energy Levels, Wavelengths	Exp

312. A. Kramida
Recent Progress in Spectroscopy of Tungsten
Can. J. Phys. 89, 551-570 (2011)

W^{13+}	Energy Levels, Wavelengths	Exp
W^{28+}	Energy Levels, Wavelengths	Exp
$W^{40+-71+}$	Energy Levels, Wavelengths	Exp

313. J. A. Santana, Y. Ishikawa
Relativistic R-Matrix Close-Coupling Method Based on the Effective Many-Body Hamiltonian: Electron-Impact Excitation of the $3s^2\ {}^1S_0$-$3s3p\ {}^1P_1$ Electric Dipole-Allowed Transition of the Ar^{6+} Ion
Can. J. Phys. 89, 457-463 (2011)

Ar^{5+}	Energy Levels, Wavelengths	Th
Ar^{6+}	Energy Levels, Wavelengths	Th

314. E. Träbert, Y. Ishikawa, J. A. Santana, G. Del Zanna
The $3s^23p3d\ {}^3F^\circ$ Term in the Si-like Spectrum of Fe (Fe XIII)
Can. J. Phys. 89, 403-412 (2011)

Fe^{12+}	Energy Levels, Wavelengths	E/T

315. K. Pachucki, V. A. Yerokhin
Fine Structure of Helium and Light Helium-like Ions
Can. J. Phys. 89, 95-101 (2011)

He Z= 2-10	Energy Levels, Wavelengths	Th

316. F. Ferro, A. Artemyev, A. Surzhykov, Th. Stöhlker
Hyperfine Interaction Effects on the $(1s2p)^3P_1$-$(1s2s)^1S_0$ Energy Splitting in He-like Ions for Parity Nonconservation Studies
Can. J. Phys. 89, 73-77 (2011)

He Z= 3-17	Energy Levels, Wavelengths	Th
He Z= 21-25	Energy Levels, Wavelengths	Th
He Z= 29-35	Energy Levels, Wavelengths	Th
Li^+	Energy Levels, Wavelengths	Th
Be^{2+}	Energy Levels, Wavelengths	Th
B^{3+}	Energy Levels, Wavelengths	Th
C^{4+}	Energy Levels, Wavelengths	Th
N^{5+}	Energy Levels, Wavelengths	Th
O^{6+}	Energy Levels, Wavelengths	Th
Ne^{7+}	Energy Levels, Wavelengths	Th
Na^{9+}	Energy Levels, Wavelengths	Th
Mg^{10+}	Energy Levels, Wavelengths	Th
Al^{11+}	Energy Levels, Wavelengths	Th
Si^{12+}	Energy Levels, Wavelengths	Th
P^{13+}	Energy Levels, Wavelengths	Th

S^{14+}	Energy Levels, Wavelengths	Th
Cl^{15+}	Energy Levels, Wavelengths	Th
K^{17+}	Energy Levels, Wavelengths	Th
Sc^{19+}	Energy Levels, Wavelengths	Th
Ti^{20+}	Energy Levels, Wavelengths	Th
V^{21+}	Energy Levels, Wavelengths	Th
Cr^{22+}	Energy Levels, Wavelengths	Th
Mn^{23+}	Energy Levels, Wavelengths	Th
Co^{25+}	Energy Levels, Wavelengths	Th
Cu^{27+}	Energy Levels, Wavelengths	Th
Zn^{28+}	Energy Levels, Wavelengths	Th
Ga^{29+}	Energy Levels, Wavelengths	Th
Ge^{30+}	Energy Levels, Wavelengths	Th
As^{31+}	Energy Levels, Wavelengths	Th
Se^{32+}	Energy Levels, Wavelengths	Th
Br^{33+}	Energy Levels, Wavelengths	Th

317. C. E. Simien, S. M. Brewer, J. N. Tan, J. D. Gillaspy, C. J. Sansonetti
Progress at NIST in Measuring the D-Lines of Li Isotopes Using an Optical Frequency Synthesizer
Can. J. Phys. 89, 59-62 (2011)

Li	Energy Levels, Wavelengths	Exp

318. V. A. Shubert, S. T. Pratt
Photoelectron Imaging of Autoionizing States of Xenon: Effect of External Electric Fields
Phys. Rev. A 84, 053413 (2011)

Xe	Energy Levels, Wavelengths	Exp

319. M. J. May, S. B. Hansen, J. Scofield, M. Schneider, K. Wong, P. Beiersdorfer
Gold Charge State Distributions in Highly Ionized, Low-Density Beam Plasmas
Phys. Rev. E 84, 046402 (2011)

$Au^{45+-58+}$	Energy Levels, Wavelengths	Exp

320. J.-J. Wan, C.-Z. Dong
The Effects of Quantum Interference Between Direct and Resonant Photorecombination of H-like Ar^{17+} Ions
Phys. Scr. 84, 045301 (2011)

Ar^{16+}	Energy Levels, Wavelengths	Th

321. B. Doughty, L. H. Haber, S. R. Leone
Pump-Probe Photoelectron Velocity-Map Imaging of Autoionizing Singly Excited $4s^14p^6np^1$(n=7,8) and Doubly Excited $4s^24p^45s^16p^1$ Resonances in Atomic Krypton
Phys. Rev. A 84, 043433 (2011)

Kr	Energy Levels, Wavelengths	Exp

322. H. Tanuma, H. Ohashi, N. Yamamoto, D. Kato, I. Murakami, S. Fujioka, H. Nishimura, K. Nishihara
Charge-Exchange EUV Spectroscopy in Collisions of Xe^{q+} (q=7–9) with Rare Gases
Phys. Rev. A 84, 059901 (2011)

Xe^{6+-8+}	Energy Levels, Wavelengths	Exp

323. Y.-H. Lien, K.-J. Lo, H.-C. Chen, J.-R. Chen, J.-Y. Tian, J.-T. Shy, Y.-W. Liu
Absolute Frequencies of the ^{6,7}Li 2S $^2S_{1/2}$ →3S $^2S_{1/2}$ Transitions
Phys. Rev. A 84, 042511 (2011)

Li	Energy Levels, Wavelengths	Exp

324. F. Hu, C.-K. Wang, J.-M. Yang, G. Jiang, L.-H. Hao
Multiconfiguration Dirac-Fock Calculations of Transition Probabilities of Some Tungsten Ions
Phys. Scr. 84, 015302 (2011)

W^{27+}	Energy Levels, Wavelengths	Th
W^{43+}	Energy Levels, Wavelengths	Th
W^{44+}	Energy Levels, Wavelengths	Th
W^{45+}	Energy Levels, Wavelengths	Th
W^{61+}	Energy Levels, Wavelengths	Th
W^{62+}	Energy Levels, Wavelengths	Th
W^{63+}	Energy Levels, Wavelengths	Th
W^{69+}	Energy Levels, Wavelengths	Th
W^{70+}	Energy Levels, Wavelengths	Th
W^{71+}	Energy Levels, Wavelengths	Th

325. A. M. Covington, A. Aguilar, I. R. Covington, G. Hinojosa, C. A. Shirley, R. A. Phaneuf, I. Álvarez, C. Cisneros, I. Dominguez-Lopez, M. M. Sant'Anna, A. S. Schlachter, C. P. Ballance, B. M. McLaughlin
Valence-Shell Photoionization of Chlorinelike Ar^+ Ions
Phys. Rev. A 84, 013413 (2011)

Ar^+	Energy Levels, Wavelengths	Exp

326. M. H. Chen, K. T. Cheng
Relativistic Configuration-Interaction Calculations of the n=3-3 Transition Energies in Highly Charged Tungsten Ions
Phys. Rev. A 84, 012513 (2011)

W^{56+}	Energy Levels, Wavelengths	Th
W^{60+}	Energy Levels, Wavelengths	Th
$W^{61+-64+}$	Energy Levels, Wavelengths	Th

327. U. I. Safronova, A. S. Safronova
Correlation and Relativistic Effects for the 4f-nl and 5p-nl Multipole Transitions in Er-like Tungsten
Phys. Rev. A 84, 012511 (2011)

W^{6+}	Energy Levels, Wavelengths	Th

328. N. Shiga, W. M. Itano, J. J. Bollinger
Diamagnetic Correction to the $^9Be^+$ Ground-State Hyperfine Constant
Phys. Rev. A 84, 012510 (2011)

Be^+	Energy Levels, Wavelengths	Exp

329. Z.-S. Jiang, S. Kar, Y. K. Ho
Polarizabilities of Two-Electron Positive Ions with Screened Coulomb Potentials
Phys. Rev. A 84, 012504 (2011)

He Z= 3-8	Energy Levels, Wavelengths	Th

330. P. Bogdanovich, O. Rancova, A. Štikonas
Quasirelativistic Treatment of Spectral Characteristics of W^{37+}
Phys. Scr. 83, 065302 (2011)

W^{37+}	Energy Levels, Wavelengths	Th

331. T. Carette, M. R. Godefroid
Theoretical Study of the C^- $^4S^\circ_{3/2}$ and $^2D^\circ_{3/2,5/2}$ Bound States and C Ground Configuration: Fine and Hyperfine Structures, Isotope Shifts, and Transition Probabilities
Phys. Rev. A 83, 062505 (2011)

$^{11}C^-$	Energy Levels, Wavelengths	Th
$^{13}C^-$	Energy Levels, Wavelengths	Th
C^-	Energy Levels, Wavelengths	Th
C	Energy Levels, Wavelengths	Th

332. G. P. Gupta, A. Z. Msezane
Fine-Structure Energy Levels, Oscillator Strengths and Lifetimes in Cu XVI
Phys. Scr. 83, 055301 (2011)

Cu^{15+}	Energy Levels, Wavelengths	Th

333. J. Jose, G. B. Pradhan, V. Radojević, S. T. Manson, P. C. Deshmukh
Valence Photodetachment of Li^- and Na^- Using Relativistic Many-Body Techniques
Phys. Rev. A 83, 053419 (2011)

Li^-	Energy Levels, Wavelengths	Th
Na^-	Energy Levels, Wavelengths	Th

334. B. J. Wundt, U. D. Jentschura
Self-Energy Correction to the Hyperfine Splitting for Excited States
Phys. Rev. A 83, 052501 (2011)

H Z= 1-100	Energy Levels, Wavelengths	Th
H	Energy Levels, Wavelengths	Th

335. M. F. Gharaibeh, A. Aguilar, A. M. Covington, E. D. Emmons, S. W. J. Scully, R. A. Phaneuf, A. Müller, J. D. Bozek, A. L. D. Kilcoyne, A. S. Schlachter, I. Àlvarez, C. Cisneros, G. Hinojosa
Photoionization Measurements for the Iron Isonuclear Sequence Fe^{3+}, Fe^{5+}, and Fe^{7+}
Phys. Rev. A 83, 043412 (2011)

Fe^{3+}	Energy Levels, Wavelengths	Exp
Fe^{5+}	Energy Levels, Wavelengths	Exp

336. M. S. Pindzola, S. D. Loch, F. Robicheaux
Dielectronic Recombination in C^{3+} Above and Below the Ionization Threshold
Phys. Rev. A 83, 042705 (2011)

C^{3+}	Energy Levels, Wavelengths	Th

337. A. Joiner, R. H. Mohr, J. N. Yukich
High-Resolution Photodetachment Spectroscopy from the Lowest Threshold of O^-
Phys. Rev. A 83, 035401 (2011)

O^-	Energy Levels, Wavelengths	Exp

338. J. S. Sims, S. A. Hagstrom
Hylleraas-Configuration-Interaction Study of the ^1S Ground State of Neutral Beryllium
Phys. Rev. A 83, 032518 (2011)

Be	Energy Levels, Wavelengths	Th

339. Yu. Ralchenko, I. N. Draganić, D. Osin, J. D. Gillaspy, J. Reader
Spectroscopy of Diagnostically Important Magnetic-Dipole Lines in Highly Charged $3d^n$ Ions of Tungsten
Phys. Rev. A 83, 032517 (2011)

$W^{47+-55+}$	Energy Levels, Wavelengths	Exp

340. G. Gaigalas, Z. Rudzikas, P. Rynkun, A. Alkauskas
Dependence of the Probabilities of the Electric-Multipole Electron Transitions in W^{24+} on Multipolarity
Phys. Rev. A 83, 032509 (2011)

W^{24+}	Energy Levels, Wavelengths	Th

341. L. Zhang, G. Jiang, L.-H. Hao, B.-L. Deng
Relativistic Configuration Interaction Calculations on Kα X-ray Satellites of Krypton
Phys. Scr. 83, 025302 (2011)

$Kr^{26+-34+}$	Energy Levels, Wavelengths	Th

342. Y. Komninos, Th. Mercouris, C. A. Nicolaides
Regular Series of Doubly Excited States Inside Two-Electron Continua: Application to $2s^2$-Hole States in Neon Above the Ne^{2+} $1s^22s^22p^4$ and $1s^22s2p^5$ Thresholds
Phys. Rev. A 83, 022501 (2011)

Ne	Energy Levels, Wavelengths	Th

343. K. M. Aggarwal, T. Kato, F. P. Keenan, I. Murakami
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in He-like Li II, Be III, B IV and C V
Phys. Scr. 83, 015302 (2011)

He Z= 3-6	Energy Levels, Wavelengths	Th

344. D.-H. Kwon, D. W. Savin
Fe^{15+} Dielectronic Recombination and the Effects of Configuration Interaction Between Resonances with Different Captured Electron Principal Quantum Numbers
Phys. Rev. A 83, 012701 (2011)

Fe^{14+}	Energy Levels, Wavelengths	Th

345. W. Nörtershäuser, R. Sánchez, G. Ewald, A. Dax, J. Behr, P. Bricault, B. A. Bushaw, J. Dilling, M. Dombsky, G. W. F. Drake, S. Götte, H.-J. Kluge, Th. Kühl, J. Lassen, C. D. P. Levy, K. Pachucki, M. Pearson, M. Puchalski, A. Wojtaszek, Z.-C. Yan, C. Zimmermann
Isotope-Shift Measurements of Stable and Short-Lived Lithium Isotopes for Nuclear-Charge-Radii Determination
Phys. Rev. A 83, 012516 (2011)

Li	Energy Levels, Wavelengths	E/T

346. P. Beiersdorfer, M. Obst, U. I. Safronova
Radiative Decay Probabilities of the $(2s^22p^5_{1/2}3s_{1/2})_{J=0}$ Level in Neonlike Ions
Phys. Rev. A 83, 012514 (2011)

Ne Z= 13-100	Energy Levels, Wavelengths	Th

347. W. Williams, Z.-T. Lu, K. Rudinger, C.-Y. Xu, R. Yokochi, P. Mueller
Spectroscopic Study of the Cycling Transition $4s[3/2]_2$-$4p[5/2]_3$ at 811.8 nm in ^{39}Ar: Hyperfine Structure and Isotope Shift
Phys. Rev. A 83, 012512 (2011)

Ar	Energy Levels, Wavelengths	Exp

348. L.-H. Hao, G. Jiang
Energy Levels, Transition Rates, and Line Strengths of B-like Ions
Phys. Rev. A 83, 012511 (2011)

Al^{8+}	Energy Levels, Wavelengths	Th
Mn^{20+}	Energy Levels, Wavelengths	Th
Fe^{21+}	Energy Levels, Wavelengths	Th
Co^{22+}	Energy Levels, Wavelengths	Th
Ni^{23+}	Energy Levels, Wavelengths	Th
Cu^{24+}	Energy Levels, Wavelengths	Th
Zn^{25+}	Energy Levels, Wavelengths	Th
Mo^{37+}	Energy Levels, Wavelengths	Th
Au^{74+}	Energy Levels, Wavelengths	Th

349. V. A. Yerokhin
Nuclear-Size Correction to the Lamb Shift of One-Electron Atoms
Phys. Rev. A 83, 012507 (2011)

H Z= 1-100	Energy Levels, Wavelengths	Th

350. J. Sapirstein, K. T. Cheng
S-Matrix Calculations of Energy Levels of the Lithium Isoelectronic Sequence
Phys. Rev. A 83, 012504 (2011)

Li Z= 10-100	Energy Levels, Wavelengths	Th

351. H. Ohashi, J. Yatsurugi, H. A. Sakaue, N. Nakamura
High Resolution Extreme Ultraviolet Spectrometer for an Electron Beam Ion Trap
Rev. Sci. Instrum. 82, 083103 (2011)

Xe^{24+}	Energy Levels, Wavelengths	Exp
$Xe^{38+-43+}$	Energy Levels, Wavelengths	Exp
$W^{41+-45+}$	Energy Levels, Wavelengths	Exp

352. I. Sakho
High Lying Energy Positions of Doubly (2pns) $^{1,3}P^{\circ}$ and (2pnd) $^{1,3}P^{\circ}$ Excited States of the Beryllium Atom
Radiat. Phys. Chem. 80, 1295-1299 (2011)

Be	Energy Levels, Wavelengths	Th

353. C.-C. Sang, Y. F. Jiao, Y. Sun, B. C. Gou
Energies, Auger and Radiative Probabilities of the Doubly-Excited $1s^2 3l3l'$ States for Be-like Neon
Eur. Phys. J. D 64, 203-207 (2011)

Ne^{6+}	Energy Levels, Wavelengths	Th

354. L. Sharma, R. Srivastava, A. D. Stauffer
Excitation of the $5p^5 7p$ Levels of Xenon by Electron Impact
Eur. Phys. J. D 62, 399-403 (2011)

Xe	Energy Levels, Wavelengths	Th

355. I. Sakho
Screening Constant by Unit Nuclear Charge Calculations of $^{1,3}S^e$, $^{1,3}P^{\circ}$ and $^{1,3}D^e$ Inter-shell Rydberg States of the Helium-like Ions Below the N = 2 Hydrogenic Thresholds
Eur. Phys. J. D 61, 267-283 (2011)

He Z= 2-28	Energy Levels, Wavelengths	Th

356. F. Hu, G. Jiang, J. M. Yang, C. K. Wang, X. F. Zhao, L. H. Hao
Effects of Valence-Valence, Core-Valence and Core-Core Correlations on the Fine-Structure Energy Levels in Zn-like Ions
Eur. Phys. J. D 61, 15-20 (2011)

Yb^{40+}	Energy Levels, Wavelengths	Th
W^{44+}	Energy Levels, Wavelengths	Th
Os^{46+}	Energy Levels, Wavelengths	Th
Au^{49+}	Energy Levels, Wavelengths	Th
Pb^{52+}	Energy Levels, Wavelengths	Th
Bi^{53+}	Energy Levels, Wavelengths	Th
Th^{60+}	Energy Levels, Wavelengths	Th
U^{62+}	Energy Levels, Wavelengths	Th

357. U. I. Safronova, P. G. Wilcox, A. S. Safronova
Relativistic Calculations of Dielectronic Recombination and Satellite Lines of an Ar-like Ni Ion
J. Phys. B 44, 225002 (2011)

Ni^{9+}	Energy Levels, Wavelengths	Th

358. F. Güzelçimen, Gö. Başar, I. K. Öztürk, S. Kröger, R. Ferber, A. Jarmola, M. Tamanis, Gü. Başar
Hyperfine Structure of the $3d^3 4s4p\ ^6G$ Multiplet of Atomic Vanadium
J. Phys. B 44, 215001 (2011)

V	Energy Levels, Wavelengths	Exp

359. A. Er, I. K. Öztürk, G. Başar, S. Kröger, A. Jarmola, R. Ferber, M. Tamanis
Hyperfine Structure Study of Atomic Niobium with Enhanced Sensitivity of Fourier Transform Spectroscopy
J. Phys. B 44, 205001 (2011)

Nb	Energy Levels, Wavelengths	Exp

360. V. D. Ovsiannikov, I. L. Glukhov, E. A. Nekipelov
Rates of Blackbody Radiation-Induced Transitions from Rydberg States of Alkali Atoms
J. Phys. B 44, 195010 (2011)

Li	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th

361. J. Jose, G. B. Pradhan, V. Radojević, S. T. Manson, P. C. Deshmukh
Electron Correlation Effects Near the Photoionization Threshold: The Ar Isoelectronic Sequence
J. Phys. B 44, 195008 (2011)

Ar Z= 17-19	Energy Levels, Wavelengths	Th
Sc^{3+}	Energy Levels, Wavelengths	Th
Mn^{7+}	Energy Levels, Wavelengths	Th
Cu^{11+}	Energy Levels, Wavelengths	Th
Kr^{18+}	Energy Levels, Wavelengths	Th
Mo^{24+}	Energy Levels, Wavelengths	Th
Cd^{30+}	Energy Levels, Wavelengths	Th

362. P. Quinet
Dirac-Fock Calculations of Forbidden Transitions within the $3p^k$ and $3d^k$ Ground Configurations of Highly Charged Tungsten Ions (W^{47+}–W^{61+})
J. Phys. B 44, 195007 (2011)

$W^{47+-61+}$	Energy Levels, Wavelengths	Th

363. M. F. Gharaibeh, J. M. Bizau, D. Cubaynes, S. Guilbaud, N. El Hassan, M. M. Al Shorman, C. Miron, C. Nicolas, E. Robert, C. Blancard, B. M. McLaughlin
K-Shell Photoionization of Singly Ionized Atomic Nitrogen: Experiment and Theory
J. Phys. B 44, 175208 (2011)

N^{+}	Energy Levels, Wavelengths	E/T

364. C. Suzuki, C. S. Harte, D. Kilbane, T. Kato, H. A. Sakaue, I. Murakami, D. Kato, K. Sato, N. Tamura, S. Sudo, M. Goto, R. D'Arcy, E. Sokell, G. O'Sullivan
Interpretation of Spectral Emission in the 20 nm Region from Tungsten Ions Observed in Fusion Device Plasmas
J. Phys. B 44, 175004 (2011)

W^{7+-27+}	Energy Levels, Wavelengths	E/T

365. M. Das, R. K. Chaudhuri, S. Chattopadhyay, U. S. Mahapatra, P. K. Mukherjee
Application of Relativistic Coupled Cluster Linear Response Theory to Helium-like Ions Embedded in Plasma Environment
J. Phys. B 44, 165701 (2011)

C^{4+}	Energy Levels, Wavelengths	Th
Al^{11+}	Energy Levels, Wavelengths	Th
Ar^{16+}	Energy Levels, Wavelengths	Th

366. J. Rausch, A. Becker, K. Spruck, J. Hellhund, A. Borovik Jr., K. Huber, S. Schippers, A. Müller
Electron-Impact Single and Double Ionization of W^{17+}
J. Phys. B 44, 165202 (2011)

$W^{17+-18+}$	Energy Levels, Wavelengths	E/T

367. D. Kilbane
Transition Wavelengths and Unresolved Transition Array Statistics of Ions with Z = 72–89
J. Phys. B 44, 165006 (2011)

Rb Z= 72-89	Energy Levels, Wavelengths	Th
Rh Z= 72-89	Energy Levels, Wavelengths	Th
Ru Z= 72-89	Energy Levels, Wavelengths	Th
Tc Z= 72-89	Energy Levels, Wavelengths	Th
Mo Z= 72-89	Energy Levels, Wavelengths	Th
Nb Z= 72-89	Energy Levels, Wavelengths	Th
Zr Z= 72-89	Energy Levels, Wavelengths	Th
Y Z= 72-89	Energy Levels, Wavelengths	Th
Sr Z= 72-89	Energy Levels, Wavelengths	Th

368. P. Quinet, P. Palmeri, É. Biémont
Spectroscopic Data for Atomic Tungsten Transitions of Interest in Fusion Plasma Research
J. Phys. B 44, 145005 (2011)

W	Energy Levels, Wavelengths	Th

369. X.-B. Ding, F. Koike, I. Murakami, D. Kato, H. A. Sakaue, C.-Z. Dong, N. Nakamura, A. Komatsu, J. Sakoda
Ab Initio Multi-Configuration Dirac-Fock Calculation of M1 Visible Transitions Among the Ground State Multiplets of the W^{26+} Ion
J. Phys. B 44, 145004 (2011)

W^{26+}	Energy Levels, Wavelengths	Th

370. Z. Felfli, A. Z. Msezane, D. Sokolovski
Elastic Scattering of Slow Electrons from Y, Ru, Pd, Ag and Pt Atoms: Search for Nanocatalysts
J. Phys. B 44, 135204 (2011)

Y^-	Energy Levels, Wavelengths	Th
Ru^-	Energy Levels, Wavelengths	Th
Ag^-	Energy Levels, Wavelengths	Th
Pt^-	Energy Levels, Wavelengths	Th
Au^-	Energy Levels, Wavelengths	Th

371. S. Civiš, I. Matulková, J. Cihelka, P. Kubelík, K. Kawaguchi, V. E. Chernov
Low-Excited f-, g- and h-States in Au, Ag and Cu Observed by Fourier-Transform Infrared Spectroscopy in the 1000–7500 cm^{-1} Region
J. Phys. B 44, 105002 (2011)

Cu	Energy Levels, Wavelengths	Exp
Ag	Energy Levels, Wavelengths	Exp
Au	Energy Levels, Wavelengths	Exp

372. T. Carette, M. R. Godefroid
Ab Initio Calculations of the $^{33}S\ 3p^4\ ^3P_J$ and $^{33}S^-/^{37,35}Cl\ 3p^5\ ^2P^\circ_J$ Hyperfine Structures
J. Phys. B 44, 105001 (2011)

$^{33}S^-$	Energy Levels, Wavelengths	Th
S^-	Energy Levels, Wavelengths	Th
S	Energy Levels, Wavelengths	Th
Cl	Energy Levels, Wavelengths	Th

373. B. M. Lagutin, I. D. Petrov, V. L. Sukhorukov, H. Schmoranzer, K.-H. Schartner, A. Ehresmann
Fourfold Excitations, Intra- and Inter-Shell Correlations in the Auger Decay of Kr 3d-np Resonances
J. Phys. B 44, 095002 (2011)

Kr	Energy Levels, Wavelengths	Exp

374. N. D. Ouart, A. S. Safronova, A. Ya. Faenov, T. A. Pikuz, S. V. Gasilov, F. Calegari, M. Nisoli, S. De Silvestri, S. Stagira, L. Poletto, P. Villoresi
Analysis of the Simultaneous Measurements of Iron K- and L-Shell Radiation from Ultrashort Laser Produced Plasmas
J. Phys. B 44, 065602 (2011)

$Fe^{15+-17+}$	Energy Levels, Wavelengths	E/T

375. M. Gallardo, M. Raineri, J. Reyna Almandos, É. Biémont
New Energy Levels, Calculated Lifetimes and Transition Probabilities in Xe IX
J. Phys. B 44, 045001 (2011)

Xe^{8+}	Energy Levels, Wavelengths	E/T

376. U. I. Safronova, A. S. Safronova, P. Beiersdorfer, W. R. Johnson
Excitation Energies, Radiative and Autoionization Rates, Dielectronic Satellite Lines and Dielectronic Recombination Rates for Excited States of Ag-like W from Pd-like W
J. Phys. B 44, 035005 (2011)

W^{27+}	Energy Levels, Wavelengths	Th

377. R. Karazija, A. Momkauskaitė, L. Remeikaitė-Bakšienė
Formation of a Narrow Group of Intense Lines in the Photoexcitation and Emission Spectra Corresponding to $3s^23p^N$-($3s3p^{N+1}$ + $3s^23p^{N-1}3d$) Transitions
J. Phys. B 44, 035002 (2011)

Al Z= 18-40	Energy Levels, Wavelengths	Th
Cl Z= 18-40	Energy Levels, Wavelengths	Th
S Z= 18-40	Energy Levels, Wavelengths	Th
P Z= 18-40	Energy Levels, Wavelengths	Th
Si Z= 18-40	Energy Levels, Wavelengths	Th

378. I. N. Draganić, Yu. Ralchenko, J. Reader, J. D. Gillaspy, J. N. Tan, J. M. Pomeroy, S. M. Brewer, D. Osin
EUV Spectral Lines of Highly-Charged Hf, Ta and Au Ions Observed with an Electron Beam Ion Trap
J. Phys. B 44, 179801 (2011)

Fe Z= 72-73	Energy Levels, Wavelengths	E/T
Ni Z= 72-73	Energy Levels, Wavelengths	E/T
Sr Z= 72-73	Energy Levels, Wavelengths	E/T
Rb Z= 72-73	Energy Levels, Wavelengths	E/T
Kr Z= 72-73	Energy Levels, Wavelengths	E/T
Br Z= 72-73	Energy Levels, Wavelengths	E/T
Se Z= 72-73	Energy Levels, Wavelengths	E/T
As Z= 72-73	Energy Levels, Wavelengths	E/T
Ge Z= 72-73	Energy Levels, Wavelengths	E/T
Ga Z= 72-73	Energy Levels, Wavelengths	E/T
Zn Z= 72-73	Energy Levels, Wavelengths	E/T
Cu Z= 72-73	Energy Levels, Wavelengths	E/T
Ni Z= 72-73	Energy Levels, Wavelengths	E/T
Co Z= 72-73	Energy Levels, Wavelengths	E/T
Au$^{41+-53+}$	Energy Levels, Wavelengths	E/T
Au$^{42+-52+}$	Energy Levels, Wavelengths	E/T

379. I. Liontos, C. Corsi, S. Cavalieri, M. Bellini, R. Eramo
Split-Pulse Spectrometer for Absolute XUV Frequency Measurements
Opt. Lett. 36, 2047-2049 (2011)

Ar	Energy Levels, Wavelengths	Exp

380. G. Nave, C. J. Sansonetti
Wavelengths of the 3d^6(^{5}D)4s a^{6}D - 3d^5(^{6}S)4s4p y^{6}P Multiplet of Fe II (UV 8)
J. Opt. Soc. Am. B 28, 737-745 (2011)

Mg^{0+-1+}	Energy Levels, Wavelengths	Exp
Ar^{+}	Energy Levels, Wavelengths	Exp
Fe^{0+-1+}	Energy Levels, Wavelengths	Exp
Fe^{+}	Energy Levels, Wavelengths	Exp
Ge^{0+-1+}	Energy Levels, Wavelengths	Exp

381. M.-H. Hu, Z.-W. Wang, F.-W. Zeng, T. Wang, J. Wang
Energy Levels of 1s^{2}nd (n $\leq$ 9) States for Lithium-like Ions
Chin. Phys. B 20, 083101 (2011)

Li Z= 11-20	Energy Levels, Wavelengths	Th

382. F. Hu, G. Jiang, J.-M. Yang, C.-K. Wang, X.-F. Zhao, H.-P. Zang
Multi-Configuration Dirac-Hartree-Fock (MCDHF) Calculations for Zn-like Sequence from Z = 48 To 54
Chin. Phys. B 20, 063103 (2011)

Zn Z= 48-54	Energy Levels, Wavelengths	Th

383. J. Söderström, A. Lindblad, A. N. Grum-Grzhimailo, O. Travnikova, C. Nicolas, S. Svensson, C. Miron
Angle-Resolved Electron Spectroscopy of the Resonant Auger Decay in Xenon with meV Energy Resolution
New J. Phys. 13, 073014 (2011)

Xe^{+}	Energy Levels, Wavelengths	Exp

384. F. Hu, J.-M. Yang, C.-K. Wang, G. Jiang, X.-F. Zhao, H.-P. Zang
Multiconfiguration Dirac-Fock Results for Forbidden Transitions in the $2p^4$ Configuration
Cent. Eur. J. Phys. 9, 1228-1236 (2011)

O Z= 8-42	Energy Levels, Wavelengths	Th

385. E. Louzon, A. Feigel, Y. Frank, E. Raicher, M. Klapisch, P. Mandelbaum, I. Levy, G. Hurvitz, Y. Ehrlich, M. Frankel, S. Maman, Z. Henis
X-ray Spectral Measurements and Collisional Radiative Modeling of Laser Produced Iron Plasma
High En. Dens. Phys. 7, 124-129 (2011)

$Fe^{19+-23+}$	Energy Levels, Wavelengths	Exp
Fe^{23+}	Energy Levels, Wavelengths	Exp

386. H. G. Wei, J. R. Shi, G. Zhao, Z. T. Liang
K-Shell Energy Levels and Radiative Rates for Transitions in Si XI
Astron. Astrophys. 522, A103 (2010)

Si^{10+}	Energy Levels, Wavelengths	Th

387. F. Castelli, R. L. Kurucz
New Fe II Energy Levels from Stellar Spectra
Astron. Astrophys. 520, A57 (2010)

Fe^{+}	Energy Levels, Wavelengths	E/T

388. G. Y. Liang, N. R. Badnell
R-Matrix Electron-Impact Excitation Data for the Ne-like Iso-Electronic Sequence
Astron. Astrophys. 518, A64 (2010)

Ne Z= 11-36	Energy Levels, Wavelengths	Th

389. G. Y. Liang, G. Zhao
Soft X-ray Emission Lines of Fe VII–Fe XVI in Stellar Coronae in the Range 49–106 Å
Mon. Not. R. Astron. Soc. 405, 1987-2000 (2010)

Mg^{6+}	Energy Levels, Wavelengths	Exp
Si^{6+-8+}	Energy Levels, Wavelengths	Exp
Fe^{8+-15+}	Energy Levels, Wavelengths	Exp
Fe^{9+-14+}	Energy Levels, Wavelengths	Exp

390. M. Hellgren, U. von Barth
Correlation Energy Functional and Potential from Time-Dependent Exact-Exchange Theory
J. Chem. Phys. 132, 044101 (2010)

He	Energy Levels, Wavelengths	Th
Be	Energy Levels, Wavelengths	Th
Ne	Energy Levels, Wavelengths	Th
Mg	Energy Levels, Wavelengths	Th
Ar	Energy Levels, Wavelengths	Th

391. Z.-W. Chang, J.-G. Li, C.-Z. Dong
Ionization Potentials, Electron Affinities, Resonance Excitation Energies, Oscillator Strengths, and Ionic Radii of Element Uus (Z = 117) and Astatine
J. Phys. Chem. A 114, 13388-13394 (2010)

Cl^-	Energy Levels, Wavelengths	E/T
Cl	Energy Levels, Wavelengths	E/T
Cl^{0+-4+}	Energy Levels, Wavelengths	E/T
Br^-	Energy Levels, Wavelengths	E/T
Br	Energy Levels, Wavelengths	E/T
Br^{0+-4+}	Energy Levels, Wavelengths	E/T
I^-	Energy Levels, Wavelengths	E/T
I	Energy Levels, Wavelengths	E/T
I^{0+-4+}	Energy Levels, Wavelengths	E/T
At^-	Energy Levels, Wavelengths	E/T
At	Energy Levels, Wavelengths	E/T
At^{0+-4+}	Energy Levels, Wavelengths	E/T
Uus	Energy Levels, Wavelengths	E/T
Uus^{0+-4+}	Energy Levels, Wavelengths	E/T

392. Z. H. Yang, S. B. Du, H. W. Chang, Y. P. Zhang, B. L. Zhang, Q. M. Xu, D. Y. Yu, X. H. Cai
Iron XII to XXII Spectra Measurements Between 250 and 400 Å
J. Quant. Spectrosc. Radiat. Transfer 111, 2007-2011 (2010)

$Fe^{11+-21+}$	Energy Levels, Wavelengths	Exp

393. A. I. Bondarev, Yu. S. Kozhedub, N. S. Oreshkina
Finite Nuclear Size Correction to Vacuum Polarization in Hydrogen-like Ions
Opt. Spectrosc. 109, 823-828 (2010)

H Z= 1-100	Energy Levels, Wavelengths	Th

394. G. P. Anisimova, O. A. Dolmatova, E. A. Efremova
Specific Features of Zeeman Structure of Configurations $2p^5 5g$ of Ne I and $3p^5 5g$ of Ar I
Opt. Spectrosc. 109, 483-485 (2010)

Ne	Energy Levels, Wavelengths	Th
Ar	Energy Levels, Wavelengths	Th

395. A. A. Buchachenko
State-Interacting Spin-Orbit Configuration Interaction Method for J-Resolved Anisotropic Static Dipole Polarizabilities: Application to Al, Ga, In, and Tl Atoms
Russ. J. Phys. Chem. A 84, 2325-2333 (2010)

Al	Energy Levels, Wavelengths	Th
Ga	Energy Levels, Wavelengths	Th
In	Energy Levels, Wavelengths	Th
Tl	Energy Levels, Wavelengths	Th

396. K. M. Aggarwal, F. P. Keenan
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in Si XII, Si XIII and Si XIV
Phys. Scr. 82, 065302 (2010)

$Si^{11+-13+}$	Energy Levels, Wavelengths	Th

397. P. Vingerhoets, K. T. Flanagan, M. Avgoulea, J. Billowes, M. L. Bissell, K. Blaum, B. A. Brown, B. Cheal, M. De Rydt, D. H. Forest, Ch. Geppert, M. Honma, M. Kowalska, J. Krämer, A. Krieger, E. Mané, R. Neugart, G. Neyens, W. Nörtershäuser, T. Otsuka, M. Schug, H. H. Stroke, G. Tungate, D. T. Yordanov
Nuclear Spins, Magnetic Moments, and Quadrupole Moments of Cu Isotopes from N=28 to N=46: Probes for Core Polarization Effects
Phys. Rev. C 82, 064311 (2010)

Cu	Energy Levels, Wavelengths	Exp

398. C. Gao, J.-L. Zeng
Validity of Analytical Formulas for Autoionization and Dielectronic Capture Rates Used in Collisional-Radiative Models
Phys. Rev. A 82, 062515 (2010)

Au^{50+}	Energy Levels, Wavelengths	Th

399. L. Natarajan, A. Natarajan, R. Kadrekar
Relativistic Fine-Structure Oscillator Strengths for Li-like Ions
Phys. Rev. A 82, 062514 (2010)

Li Z= 14-54	Energy Levels, Wavelengths	Th

400. V. A. Dzuba, V. V. Flambaum, K. Beloy, A. Derevianko
Hyperfine-Mediated Static Polarizabilities of Monovalent Atoms and Ions
Phys. Rev. A 82, 062513 (2010)

Al	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Yb^+	Energy Levels, Wavelengths	Th
Hg^+	Energy Levels, Wavelengths	Th
Fr	Energy Levels, Wavelengths	Th

401. M. Puchalski, D. Kędziera, K. Pachucki
Ionization Potential for Excited S States of the Lithium Atom
Phys. Rev. A 82, 062509 (2010)

Li	Energy Levels, Wavelengths	Th

402. C. Thierfelder, P. Schwerdtfeger
Quantum Electrodynamic Corrections for the Valence Shell in Heavy Many-Electron Atoms
Phys. Rev. A 82, 062503 (2010)

	Energy Levels, Wavelengths	Th
He	Energy Levels, Wavelengths	Th
Li	Energy Levels, Wavelengths	Th
Be	Energy Levels, Wavelengths	Th
B	Energy Levels, Wavelengths	Th
Ne	Energy Levels, Wavelengths	Th
Ne^{7+}	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
Mg	Energy Levels, Wavelengths	Th
Al	Energy Levels, Wavelengths	Th
Ar	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Ca	Energy Levels, Wavelengths	Th
Ca^{9+}	Energy Levels, Wavelengths	Th
Ca^{17+}	Energy Levels, Wavelengths	Th
Cu	Energy Levels, Wavelengths	Th
Zn	Energy Levels, Wavelengths	Th
Zn^{19+}	Energy Levels, Wavelengths	Th
Zn^{27+}	Energy Levels, Wavelengths	Th
Ga	Energy Levels, Wavelengths	Th
Kr	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Sr	Energy Levels, Wavelengths	Th
Zr	Energy Levels, Wavelengths	Th
Zr^{11+}	Energy Levels, Wavelengths	Th

Zr^{29+}	Energy Levels, Wavelengths	Th
Zr^{37+}	Energy Levels, Wavelengths	Th
Ag	Energy Levels, Wavelengths	Th
Cd	Energy Levels, Wavelengths	Th
In	Energy Levels, Wavelengths	Th
Sn	Energy Levels, Wavelengths	Th
Sn^{21+}	Energy Levels, Wavelengths	Th
Sn^{39+}	Energy Levels, Wavelengths	Th
Sn^{47+}	Energy Levels, Wavelengths	Th
Xe	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Ba	Energy Levels, Wavelengths	Th
Nd	Energy Levels, Wavelengths	Th
Nd^{31+}	Energy Levels, Wavelengths	Th
Nd^{57+}	Energy Levels, Wavelengths	Th
Yb	Energy Levels, Wavelengths	Th
Yb^{41+}	Energy Levels, Wavelengths	Th
Yb^{67+}	Energy Levels, Wavelengths	Th
Au	Energy Levels, Wavelengths	Th
Hg	Energy Levels, Wavelengths	Th
Hg^{69+}	Energy Levels, Wavelengths	Th
Hg^{77+}	Energy Levels, Wavelengths	Th
Tl	Energy Levels, Wavelengths	Th
Rn	Energy Levels, Wavelengths	Th
Fr	Energy Levels, Wavelengths	Th
Ra	Energy Levels, Wavelengths	Th
Th	Energy Levels, Wavelengths	Th
Th^{61+}	Energy Levels, Wavelengths	Th
Th^{79+}	Energy Levels, Wavelengths	Th
Th^{87+}	Energy Levels, Wavelengths	Th
Rg	Energy Levels, Wavelengths	Th
Uuo	Energy Levels, Wavelengths	Th

403. L. Zamick
Relation Between a Three-Parameter Formula for Isotope Shifts and Staggering Parameters
Phys. Rev. C 82, 057304 (2010)

Ar	Energy Levels, Wavelengths	E/T
K	Energy Levels, Wavelengths	E/T
Ca	Energy Levels, Wavelengths	E/T
Ti	Energy Levels, Wavelengths	E/T

404. A. Gumberidze, S. Fritzsche, F. Bosch, D. C. Ionescu, A. Krämer, C. Kozhuharov, Z. Stachura, A. Surzhykov, A. Warczak, Th. Stöhlker
Shell- and Subshell-Resolved Projectile Excitation of Hydrogenlike Au^{78+} Ions in Relativistic Ion-Atom Collisions
Phys. Rev. A 82, 052712 (2010)

Au^{77+}	Energy Levels, Wavelengths	Exp
Au^{78+}	Energy Levels, Wavelengths	Exp

405. A. M. Sossah, H.-L. Zhou, S. T. Manson
Photoionization of Potassiumlike Transition-Metal Ions: Ti^{3+} to Fe^{7+}
Phys. Rev. A 82, 043416 (2010)

K Z= 22-26	Energy Levels, Wavelengths	Th
Ti^{3+}	Energy Levels, Wavelengths	Th
V^{4+}	Energy Levels, Wavelengths	Th
Cr^{5+}	Energy Levels, Wavelengths	Th

Mn^{6+}	Energy Levels, Wavelengths	Th
Mn^{7+}	Energy Levels, Wavelengths	Th
Fe^{7+}	Energy Levels, Wavelengths	Th
Fe^{8+}	Energy Levels, Wavelengths	Th

406. S. A. Lee, W. M. Fairbank Jr.
Measurement of the Hyperfine Structure and Isotope Shifts of the $3s^2 3p^2\ ^3P_2 \rightarrow 3s3p^3\ ^3D^\circ_3$ Transition in Silicon
Phys. Rev. A 82, 042515 (2010)

Si	Energy Levels, Wavelengths	E/T

407. K. Yao, Z. Geng, J. Xiao, Y. Yang, C. Chen, Y. Fu, D. Lu, R. Hutton, Y. Zou
KLL Dielectronic Recombination Resonant Strengths of He-like up to O-like Xenon Ions
Phys. Rev. A 81, 022714 (2010)

$Xe^{46+-52+}$	Energy Levels, Wavelengths	Exp

408. A. Ehresmann, W. Kielich, S. Klumpp, P. V. Demekhin, I. D. Petrov, V. L. Sukhorukov, B. M. Lagutin, R. Müller-Albrecht, H. Schmoranzer
Photoionization of Xe Near 5s Threshold: II. 5s- Main Line and Satellites
Eur. Phys. J. D 59, 161-169 (2010)

Xe^{+}	Energy Levels, Wavelengths	Th

409. G. A. Doschek, U. Feldman
The Solar UV-X-ray Spectrum from 1.5 to 2000 Å
J. Phys. B 43, 232001 (2010)

$Ca^{17+-18+}$	Energy Levels, Wavelengths	Exp
$Fe^{16+-18+}$	Energy Levels, Wavelengths	Exp
$Fe^{20+-24+}$	Energy Levels, Wavelengths	Exp

410. D.-S. Kim, S. T. Manson
Photoionization of the Be-like O^{4+} Ion: Total and Partial Cross Sections for the Ground $2s^2\ ^1S$ and Excited $2s2p\ ^{1,3}P$ States
J. Phys. B 43, 155205 (2010)

O^{4+}	Energy Levels, Wavelengths	Th

411. D. A. Kondratjev, I. L. Beigman, L. A. Vainshtein
Static Polarizabilities of Helium and Alkali Atoms, and Their Isoelectronic Ions
J. Russ. Laser Res. 31, 294-306 (2010)

He	Energy Levels, Wavelengths	Th
Li^{0+-1+}	Energy Levels, Wavelengths	Th
Be^{+}	Energy Levels, Wavelengths	Th
B^{2+}	Energy Levels, Wavelengths	Th
C^{3+}	Energy Levels, Wavelengths	Th
Ne^{7+}	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
Mg^{+}	Energy Levels, Wavelengths	Th
Al^{2+}	Energy Levels, Wavelengths	Th
Si^{3+}	Energy Levels, Wavelengths	Th
Ar^{7+}	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Ca^{+}	Energy Levels, Wavelengths	Th
Sc^{2+}	Energy Levels, Wavelengths	Th
Ti^{3+}	Energy Levels, Wavelengths	Th

Rb	Energy Levels, Wavelengths	Th
Sr^{+}	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Ba^{+}	Energy Levels, Wavelengths	Th

412. H. Matsuta, K. Wagatsuma, K. Kitagawa
One and Two-Photon Excited Optogalvanic Spectra of Argon in the Wavelength Region of 735–850 nm
Anal. Sci. 26, 25-31 (2010)

Ar	Energy Levels, Wavelengths	Exp

413. E. Hill, S. Rose
Photoionized Astrophysical Plasmas in the Laboratory
Phys. Plasmas 17, 103301 (2010)

Li	Energy Levels, Wavelengths	Th
Li^{+}	Energy Levels, Wavelengths	Th

414. J.-M. Li, X. Gao, C. Cheng, X.-L. Zhang, B. Qing
A Scenario to Provide Atomic Data for Fusion Research in the Stage of Precision Physics
Plasma Sci. Technol. 12, 335-340 (2010)

Si^{3+}	Energy Levels, Wavelengths	Th

415. V. Lioubimov, M. Wada, M. Ogawa, A. Takamine, T. Nakamura, P. Schury, H. Iimura, K. Okada, A. A. Kolomenskii, H. A. Schuessler, Y. Yamazaki
Precision Fast Ion Beam Laser Spectroscopy of Ar^{+}
AIP Conf. Proc. 1104, 42-46 (2009)

Ar^{+}	Energy Levels, Wavelengths	Exp

416. L. Belluzzi, E. Landi Degl'Innocenti
A Spectroscopic Analysis of the Most Polarizing Atomic Lines of the Second Solar Spectrum
Astron. Astrophys. 495, 577-586 (2009)

Y^{0+-1+}	Energy Levels, Wavelengths	Exp
Zr^{0+-1+}	Energy Levels, Wavelengths	Exp
Pd	Energy Levels, Wavelengths	Exp
Eu^{+}	Energy Levels, Wavelengths	Exp
Yb	Energy Levels, Wavelengths	Exp

417. I. Strashnov, D. J. Blagburn, J. D. Gilmour
Hyperfine Structure Induced Isotopic Effects in Krypton Resonance Ionization Mass Spectrometry
Opt. Commun. 282, 3487-3492 (2009)

Kr	Energy Levels, Wavelengths	Th

418. A. G. Kochur, S. Brühl, I. D. Petrov, Ye. B. Mitkina
Xenon 5p-4d Cascade Emission upon 3d-Photoionization
Eur. Phys. J. Spec. Top. 169, 51-58 (2009)

Xe^{2+-6+}	Energy Levels, Wavelengths	E/T

419. Y. Zhang, C.-Y. Chen, Y.-S. Wang, Y.-M. Zou
Resonance Excitation Process for Ni-like Gold
J. Quant. Spectrosc. Radiat. Transfer 110, 2180-2190 (2009)

Au^{51+}	Energy Levels, Wavelengths	Th

420. K. T. Flanagan, P. Vingerhoets, M. Avgoulea, J. Billowes, M. L. Bissell, K. Blaum, B. Cheal, M. De Rydt, V. N. Fedosseev, D. H. Forest, Ch. Geppert, U. Köster, M. Kowalska, J. Krämer, K. L. Kratz, A. Krieger, E. Mané, B. A. Marsh, T. Materna, L. Mathieu, P. L. Molkanov, R. Neugart, G. Neyens, W. Nörtershäuser, M. D. Seliverstov, O. Serot, M. Schug, M. A. Sjoedin, J. R. Stone, N. J. Stone, H. H. Stroke, G. Tungate, D. T. Yordanov, Yu. M. Volkov
Nuclear Spins and Magnetic Moments of ^{71,73,75}Cu: Inversion of $\pi 2p_{3/2}$ and $\pi 1f_{5/2}$ Levels in ^{75}Cu
Phys. Rev. Lett. 103, 142501 (2009)

Cu	Energy Levels, Wavelengths	Exp

421. M. Herrmann, V. Batteiger, S. Knünz, G. Saathoff, Th. Udem, T. W. Hänsch
Frequency Metrology on Single Trapped Ions in the Weak Binding Limit: The $3s_{1/2}$-$3p_{3/2}$ Transition in $^{24}Mg^+$
Phys. Rev. Lett. 102, 013006 (2009)

Mg^+	Energy Levels, Wavelengths	Exp

422. V. Tayal, G. P. Gupta
Fine-Structure Energy Levels, Oscillator Strengths and Lifetimes in Cu XVIII
Phys. Scr. 80, 055301 (2009)

Cu^{17+}	Energy Levels, Wavelengths	Th

423. J.-Y. Zhang, J.-M. Yang, Y. Xu, G.-H. Yang, Y.-N. Ding, J. Yan, J.-M. Yuan, Y.-K. Ding, Z.-J. Zheng, Y. Zhao, Z.-M. Hu
Radiative Heating of Plastic-Tamped Aluminum Foil by X Rays from a Foam-Buffered Hohlraum
Phys. Rev. E 79, 016401 (2009)

Al^{9+-11+}	Energy Levels, Wavelengths	Exp

424. X. J. Liu, Y. Z. Qu, B. J. Xiao, J. G. Wang
Theoretical Studies on Dielectronic Recombination of Neonlike Gold and Its Effects on Plasma Ionization Balance and Radiation Energy
Eur. Phys. J. D 55, 57-65 (2009)

Au^{68+}	Energy Levels, Wavelengths	Th
Au^{69+}	Energy Levels, Wavelengths	Th

425. H.-Y. Meng, T.-Y. Shi
Model Potential Calculations of Oscillator Strength Spectra of Rydberg Li Atoms in External Fields
Commun. Theor. Phys. 52, 333-338 (2009)

Li	Energy Levels, Wavelengths	Th

426. S. Fujioka, N. Yamamoto, D. Salzmann, F. Wang, Y. Li, Q. Dong, S. Wang, Y. Zhang, Y.-J. Rhee, Y.-W. Lee, J.-M. Han, D.-H. Kwon, J. Zhong, G. Zhao, M. Tanabe, T. Fujiwara, Y. Nakabayashi, J. Zhang, H. Nishimura, H. Takabe, K. Mima
Laboratory Spectroscopy of Silicon Plasmas Photoionized by Mimic Astrophysical Compact Objects
Plasma Phys. and Controlled Fusion 51, 124032 (2009)

Si^{11+}	Energy Levels, Wavelengths	Exp
Si^{12+}	Energy Levels, Wavelengths	Exp

427. H. Kragh
The Green Line: A Chapter in the History of Auroral Physics
Astron. Geophys. 50, 25-28 (2009)

O	Energy Levels, Wavelengths	Exp

428. J. K. Saha, S. Bhattacharyya, T. K. Mukherjee, P. K. Mukherjee
2pnp (^{1,3}P^e) States of Neutral He and Li$^+$ Ions Under Debye Plasma Screening
J. Phys. B 42, 245701 (2009)

He	Energy Levels, Wavelengths	Th
Li$^+$	Energy Levels, Wavelengths	Th

429. T. J. Gay, C. H. Greene, J. R. Machacek, K. W. McLaughlin, H. W. van der Hart, O. Yenen, D. H. Jaecks
Use of Partial-Wave Decomposition to Identify Resonant Interference Effects in the Photoionization-Excitation of Argon
J. Phys. B 42, 044008 (2009)

Ar$^+$	Energy Levels, Wavelengths	E/T

430. A. Takamine, M. Wada, K. Okada, T. Nakamura, P. Schury, T. Sonoda, V. Lioubimov, H. Iimura, Y. Yamazaki, Y. Kanai, T. M. Kojima, A. Yoshida, T. Kubo, I. Katayama, S. Ohtani, H. Wollnik, H. A. Schuessler
Isotope Shift Measurements of ^{11,9,7}Be$^+$
Eur. Phys. J. A 42, 369-373 (2009)

Be$^+$	Energy Levels, Wavelengths	Exp

431. H. Kragh
The Spectrum of the Aurora Borealis: From Enigma to Laboratory Science
Hist. Stud. Nat. Sci. 39-4, 377-417 (2009)

O	Energy Levels, Wavelengths	Exp

432. J. Tenenbaum, I. Smilanski, S. Gabay, L. A. Levin, G. Erez, S. Lavi
Structure of 510.6 and 578.2 nm Copper Laser Lines
Opt. Commun. 32, 473-477 (2009)

Cu	Energy Levels, Wavelengths	Exp

433. G.-L. Wang, X.-X. Zhou
Theoretical Calculation of Photoionization Cross Sections of B-like Ions: N^{2+}, O^{3+} and F^{4+}
Chin. Phys. B 18, 3833-3838 (2009)

B Z= 7-9	Energy Levels, Wavelengths	Th

434. R. Sánchez, M. Žáková, Z. Andjelkovic, B. A. Bushaw, K. Dasgupta, G. Ewald, Ch. Geppert, H.-J. Kluge, J. Krämer, M. Nothhelfer, D. Tiedemann, D. F. A. Winters, W. Nörtershäuser
Absolute Frequency Measurements on the 2S→3S Transition of Lithium-6,7
New J. Phys. 11, 073016 (2009)

Li	Energy Levels, Wavelengths	Exp

435. S. Fujioka, H. Takabe, N. Yamamoto, D. Salzmann, F.-L. Wang, H. Nishimura, Y.-T. Li, Q.-L. Dong, S.-J. Wang, Y. Zhang, Y.-J. Rhee, Y.-W. Lee, J.-M. Han, M. Tanabe, T. Fujiwara, Y. Nakabayashi, G. Zhao, J. Zhang, K. Mima
X-ray Astronomy in the Laboratory with a Miniature Compact Object Produced by Laser-Driven Implosion
Nature Phys. 5, 821-825 (2009)

Si^{11+}	Energy Levels, Wavelengths	Exp
Si^{12+}	Energy Levels, Wavelengths	Exp

436. F. Castelli, S. Johansson, S. Hubrig
Unidentified Lines in the Spectra of Two Iron Overabundant CP Stars: Are They Fe II Lines?
J. Phys.: Conf. Ser. 130, 012003 (2008)

Fe^{0+-1+}	Energy Levels, Wavelengths	Exp
Fe^{+}	Energy Levels, Wavelengths	Exp

437. K. Okada, M. Wada, T. Nakamura, A. Takamine, V. Lioubimov, P. Schury, Y. Ishida, T. Sonoda, M. Ogawa, Y. Yamazaki, Y. Kanai, T. M. Kojima, A. Yoshida, T. Kubo, I. Katayama, S. Ohtani, H. Wollnik, H. A. Schuessler
Precision Measurement of the Hyperfine Structure of Laser-Cooled Radioactive ^{7}Be^{+} Ions Produced by Projectile Fragmentation
Phys. Rev. Lett. 101, 212502 (2008)

Be^{+}	Energy Levels, Wavelengths	Exp

438. D. A. Liedahl, G. V. Brown
Proposed Wavelength Measurements of Silicon X-ray Spectra: Application to Vela X-1
Can. J. Phys. 86, 183-189 (2008)

Si^{5+-13+}	Energy Levels, Wavelengths	Exp

439. A. Ince-Cushman, J. E. Rice, M. Bitter, M. L. Reinke, K. W. Hill, M. F. Gu, E. Eikenberry, Ch. Broennimann, S. Scott, Y. Podpaly, S. G. Lee, E. S. Marmar
Spatially Resolved High Resolution X-ray Spectroscopy for Magnetically Confined Fusion Plasmas
Rev. Sci. Instrum. 79, 10E302 (2008)

Ar$^{15+-16+}$	Energy Levels, Wavelengths	Exp

440. C. K. Mutiso, J. M. Hughes, G. G. Sivjee, T. Pedersen, B. Gustavsson, M. J. Kosch
Previously Unreported Optical Emissions Generated During Ionospheric Heating
Geophys. Res. Lett. 35, L14103 (2008)

O^{+}	Energy Levels, Wavelengths	Exp

441. R. Katai, S. Morita, M. Goto
Identification and Intensity Analysis on Forbidden Magnetic Dipole Emission Lines of Highly Charged Al, Ar, Ti and Fe Ions in LHD
J. Quant. Spectrosc. Radiat. Transfer 107, 120-140 (2007)

Al^{7+}	Energy Levels, Wavelengths	Exp
Ar^{9+-14+}	Energy Levels, Wavelengths	Exp
Ti$^{13+-16+}$	Energy Levels, Wavelengths	Exp
Ti^{18+}	Energy Levels, Wavelengths	Exp
Fe^{17+}	Energy Levels, Wavelengths	Exp

442. Y. Xu, J.-Y. Zhang, J.-M. Yang, W.-B. Pei, Y.-K. Ding, D.-X. Lai, G.-W. Men, Z. Luo
A Clean Radiation Environment for Opacity Measurements of Radiatively Heated Material
Phys. Plasmas 14, 052701 (2007)

Al^{9+-11+}	Energy Levels, Wavelengths	Exp

443. G. Ljung, H. Nilsson, M. Asplund, S. Johansson
New and Improved Experimental Oscillator Strengths in Zr II and the Solar Abundance of Zirconium
Astron. Astrophys. 456, 1181-1185 (2006)

Zr^{+}	Energy Levels, Wavelengths	E/T

444. P. Palmeri, P. Quinet, É. Biémont, S. Svanberg, H. L. Xu
Radiative Lifetime Measurements and Semi-Empirical Transition Probability Calculations in Neutral Rhenium
Phys. Scr. 74, 297-303 (2006)

Re	Energy Levels, Wavelengths	Th

445. P. Palmeri, P. Quinet, É. Biémont, H. L. Xu, S. Svanberg
Transition Probabilities and Lifetimes in Singly Ionized Rhenium
Mon. Not. R. Astron. Soc. 362, 1348-1352 (2005)

Re^{+}	Energy Levels, Wavelengths	E/T

446. W. Eissner, E. Landi, A. K. Bhatia
Atomic Data and Spectral Line Intensities for Ar XII
At. Data Nucl. Data Tables 89, 139-194 (2005)

Ar^{11+}	Energy Levels, Wavelengths	Th

447. S. Hirata, S. Ivanov, R. J. Bartlett, I. Grabowski
Exact-Exchange Time-Dependent Density-Functional Theory for Static and Dynamic Polarizabilities
Phys. Rev. A 71, 032507 (2005)

He	Energy Levels, Wavelengths	Th
Ne	Energy Levels, Wavelengths	Th
Ar	Energy Levels, Wavelengths	Th

448. J. Sylwester, B. Sylwester, Z. Kordylewski, K. J. H. Phillips, V. D. Kuznetsov, S. I. Boldyrev
Observations of Solar X-ray Spectra by the DIOGENESS and RESIK Spectrometers Onboard the CORONAS-F Satellite
Sol. Sys. Res. 39, 479-488 (2005)

Mg^{11+}	Energy Levels, Wavelengths	Exp
Si$^{11+-13+}$	Energy Levels, Wavelengths	Exp
S$^{12+-15+}$	Energy Levels, Wavelengths	Exp
Ar$^{15+-17+}$	Energy Levels, Wavelengths	Exp
K^{17+}	Energy Levels, Wavelengths	Exp
Ca$^{17+-18+}$	Energy Levels, Wavelengths	Exp
Fe^{22+}	Energy Levels, Wavelengths	Exp
Fe^{24+}	Energy Levels, Wavelengths	Exp

449. K. Takasugi, H. Akiyama
Energy Transfer and X-ray Radiation Characteristics of a Gas-Puff Z-Pinch
Jpn. J. Appl. Phys. 43, 6376-6380 (2004)

Ar$^{14+-16+}$	Energy Levels, Wavelengths	Exp

450. A. V. Nazarenko, P. S. Antsiferov, L. A. Dorokhin, K. N. Koshelev
Evolution of a Capillary Discharge Induced by a Semiconductor Current Generator
Plasma Phys. Rep. 30, 249-254 (2004)

Ar^{5+-7+}	Energy Levels, Wavelengths	Exp

451. J. Mitroy, M. W. J. Bromley
Semiempirical Calculation of van der Waals Coefficients for Alkali-Metal and Alkaline-Earth-Metal Atoms
Phys. Rev. A 71, 019902 (2003)

Li^{0+-1+}	Energy Levels, Wavelengths	Th
Be	Energy Levels, Wavelengths	Th
Be^{2+}	Energy Levels, Wavelengths	Th
Na^{0+-1+}	Energy Levels, Wavelengths	Th
Mg	Energy Levels, Wavelengths	Th
Mg^{2+}	Energy Levels, Wavelengths	Th
K^{0+-1+}	Energy Levels, Wavelengths	Th
Ca	Energy Levels, Wavelengths	Th
Ca^{2+}	Energy Levels, Wavelengths	Th
Rb^{0+-1+}	Energy Levels, Wavelengths	Th
Sr	Energy Levels, Wavelengths	Th
Sr^{2+}	Energy Levels, Wavelengths	Th

452. J. J. Rocca, A. V. Vinogradov
Repetitively Pulsed X-ray Laser Operating on the 3p–3s Transition of the Ne-like Argon in a Capillary Discharge
Quantum Electron. 33, 7-17 (2003)

Ar^{6+-12+}	Energy Levels, Wavelengths	Exp

453. I. I. Sobel'man, A. P. Shevelko, O. F. Yakushev, L. V. Knight, R. S. Turley
A Capillary Discharge Plasma Source of Intense VUV Radiation
Quantum Electron. 33, 3-6 (2003)

Ne^{4+}	Energy Levels, Wavelengths	Exp
Ne^{6+-7+}	Energy Levels, Wavelengths	Exp
Ar^{8+-9+}	Energy Levels, Wavelengths	Exp
Kr^{7+-9+}	Energy Levels, Wavelengths	Exp
Xe^{9+-11+}	Energy Levels, Wavelengths	Exp

454. Y.-K. Ko, J. C. Raymond, J. Li, A. Ciaravella, J. Michels, S. Fineschi, R. Wu
Solar and Heliospheric Observatory Ultraviolet Coronagraph Spectrometer and Yohkoh Soft X-ray Telescope Observations of the High-Temperature Corona above an Active Region Complex
Astrophys. J. 578, 979-995 (2002)

C^{2+}	Energy Levels, Wavelengths	Exp
N^{4+}	Energy Levels, Wavelengths	Exp
O^{5+}	Energy Levels, Wavelengths	Exp
Ne^{8+}	Energy Levels, Wavelengths	Exp
Mg^{9+}	Energy Levels, Wavelengths	Exp
Al^{10+}	Energy Levels, Wavelengths	Exp
Si^{2+}	Energy Levels, Wavelengths	Exp
Si^{7+}	Energy Levels, Wavelengths	Exp
Si^{8+}	Energy Levels, Wavelengths	Exp
Si^{11+}	Energy Levels, Wavelengths	Exp
S^{9+}	Energy Levels, Wavelengths	Exp
Ar$^{11+-12+}$	Energy Levels, Wavelengths	Exp
K^{12+}	Energy Levels, Wavelengths	Exp
Ca^{9+}	Energy Levels, Wavelengths	Exp
Ca^{13+}	Energy Levels, Wavelengths	Exp
Fe^{9+}	Energy Levels, Wavelengths	Exp
Fe^{11+}	Energy Levels, Wavelengths	Exp
Fe^{12+}	Energy Levels, Wavelengths	Exp
Fe^{14+}	Energy Levels, Wavelengths	Exp
Fe^{16+}	Energy Levels, Wavelengths	Exp
Fe^{17+}	Energy Levels, Wavelengths	Exp
Ni^{12+}	Energy Levels, Wavelengths	Exp
Ni^{13+}	Energy Levels, Wavelengths	Exp

455. A. J. J. Raassen, R. Mewe, M. Audard, M. Güdel, E. Behar, J. S. Kaastra, R. L. J. van der Meer, C. R. Foley, J.-U. Ness
High-Resolution X-ray Spectroscopy of Procyon by Chandra and XMM-Newton
Astron. Astrophys. 389, 228-238 (2002)

C^{4+-5+}	Energy Levels, Wavelengths	Exp
N^{4+-6+}	Energy Levels, Wavelengths	Exp
O^{4+-7+}	Energy Levels, Wavelengths	Exp
Ne^{4+-8+}	Energy Levels, Wavelengths	Exp
Mg^{4+-9+}	Energy Levels, Wavelengths	Exp
Si^{5+-11+}	Energy Levels, Wavelengths	Exp
S^{6+-12+}	Energy Levels, Wavelengths	Exp
Ar^{8+}	Energy Levels, Wavelengths	Exp
Ar^{12+}	Energy Levels, Wavelengths	Exp
Ca$^{10+-11+}$	Energy Levels, Wavelengths	Exp
Fe^{7+-17+}	Energy Levels, Wavelengths	Exp
Ni^{9+-12+}	Energy Levels, Wavelengths	Exp
Ni^{17+}	Energy Levels, Wavelengths	Exp

456. J. S. Kaastra, K. C. Steenbrugge, A. J. J. Raassen, R. L. J. van der Meer, A. C. Brinkman, D. A. Liedahl, E. Behar, A. de Rosa
X-ray Spectroscopy of NGC 5548
Astron. Astrophys. 386, 427-445 (2002)

C^{3+-5+}	Energy Levels, Wavelengths	Exp
N^{4+-6+}	Energy Levels, Wavelengths	Exp
O^{5+-7+}	Energy Levels, Wavelengths	Exp
Ne^{8+-9+}	Energy Levels, Wavelengths	Exp
Na^{9+-10+}	Energy Levels, Wavelengths	Exp
Mg^{8+-11+}	Energy Levels, Wavelengths	Exp
Si^{7+-13+}	Energy Levels, Wavelengths	Exp
S^{9+-14+}	Energy Levels, Wavelengths	Exp
Ar$^{12+-14+}$	Energy Levels, Wavelengths	Exp
Fe^{6+-23+}	Energy Levels, Wavelengths	Exp

457. V. Bazin, P. Boduch, M. Chantepie, E. Jacquet, H. Kucal, D. Lecler
Excitation and Alignment Effects in Ar^{8+}-Cs(6s,6p) Collisions at Low Energies
Phys. Rev. A 65, 032712 (2002)

Ar^{7+}	Energy Levels, Wavelengths	Exp

458. H. Daido
Review of Soft X-ray Laser Researches and Developments
Rep. Prog. Phys. 65, 1513-1576 (2002)

Ne Z= 14-17	Energy Levels, Wavelengths	E/T
Ar^{8+}	Energy Levels, Wavelengths	E/T
K^{9+}	Energy Levels, Wavelengths	E/T
Ca^{10+}	Energy Levels, Wavelengths	E/T
Sc^{11+}	Energy Levels, Wavelengths	E/T
Ti^{12+}	Energy Levels, Wavelengths	E/T
V^{13+}	Energy Levels, Wavelengths	E/T
Cr^{14+}	Energy Levels, Wavelengths	E/T
Mn^{15+}	Energy Levels, Wavelengths	E/T
Fe^{16+}	Energy Levels, Wavelengths	E/T
Ni^{18+}	Energy Levels, Wavelengths	E/T
Cu^{19+}	Energy Levels, Wavelengths	E/T
Zn^{20+}	Energy Levels, Wavelengths	E/T
Ga^{21+}	Energy Levels, Wavelengths	E/T
Ge^{22+}	Energy Levels, Wavelengths	E/T

As^{23+}	Energy Levels, Wavelengths	E/T
Se^{24+}	Energy Levels, Wavelengths	E/T
Kr^{8+}	Energy Levels, Wavelengths	E/T
Rb^{27+}	Energy Levels, Wavelengths	E/T
Sr^{28+}	Energy Levels, Wavelengths	E/T
Y^{11+}	Energy Levels, Wavelengths	E/T
Y^{29+}	Energy Levels, Wavelengths	E/T
Zr^{12+}	Energy Levels, Wavelengths	E/T
Zr^{30+}	Energy Levels, Wavelengths	E/T
Nb^{13+}	Energy Levels, Wavelengths	E/T
Nb^{31+}	Energy Levels, Wavelengths	E/T
Mo^{14+}	Energy Levels, Wavelengths	E/T
Mo^{32+}	Energy Levels, Wavelengths	E/T
Pd^{18+}	Energy Levels, Wavelengths	E/T
Ag^{19+}	Energy Levels, Wavelengths	E/T
Cd^{20+}	Energy Levels, Wavelengths	E/T
In^{21+}	Energy Levels, Wavelengths	E/T
Sn^{22+}	Energy Levels, Wavelengths	E/T
Te^{24+}	Energy Levels, Wavelengths	E/T
Xe^{26+}	Energy Levels, Wavelengths	E/T
La^{29+}	Energy Levels, Wavelengths	E/T
Ce^{30+}	Energy Levels, Wavelengths	E/T
Pr^{31+}	Energy Levels, Wavelengths	E/T
Nd^{32+}	Energy Levels, Wavelengths	E/T
Sm^{34+}	Energy Levels, Wavelengths	E/T
Eu^{35+}	Energy Levels, Wavelengths	E/T
Gd^{36+}	Energy Levels, Wavelengths	E/T
Tb^{37+}	Energy Levels, Wavelengths	E/T
Dy^{38+}	Energy Levels, Wavelengths	E/T
Ho^{39+}	Energy Levels, Wavelengths	E/T
Yb^{42+}	Energy Levels, Wavelengths	E/T
Hf^{44+}	Energy Levels, Wavelengths	E/T
Ta^{45+}	Energy Levels, Wavelengths	E/T
W^{46+}	Energy Levels, Wavelengths	E/T
Au^{51+}	Energy Levels, Wavelengths	E/T

459. R. Mewe, A. J. J. Raassen, J. J. Drake, J. S. Kaastra, R. L. J. van der Meer, D. Porquet
Chandra-LETGS X-ray Observations of Capella. Temperature, Density and Abundance Diagnostics
Astron. Astrophys. 368, 888-900 (2001)

C^{4+-5+}	Energy Levels, Wavelengths	Exp
N^{5+-6+}	Energy Levels, Wavelengths	Exp
O^{6+-7+}	Energy Levels, Wavelengths	Exp
Ne^{8+}	Energy Levels, Wavelengths	Exp
Mg^{9+-11+}	Energy Levels, Wavelengths	Exp
Si$^{10+-13+}$	Energy Levels, Wavelengths	Exp
Fe^{8+-9+}	Energy Levels, Wavelengths	Exp
Fe$^{14+-21+}$	Energy Levels, Wavelengths	Exp
Ni^{18+}	Energy Levels, Wavelengths	Exp

460. K. P. Dere, E. Landi, P. R. Young, G. Del Zanna
CHIANTI–An Atomic Database for Emission Lines. IV. Extension to X-ray Wavelengths
Astrophys. J., Suppl. Ser. 134, 331-354 (2001)

C^{4+-5+}	Energy Levels, Wavelengths	E/T
N^{5+-6+}	Energy Levels, Wavelengths	E/T
O^{6+-7+}	Energy Levels, Wavelengths	E/T
Ne^{8+-9+}	Energy Levels, Wavelengths	E/T

Na^{9+-10+}	Energy Levels, Wavelengths	E/T
Mg^{9+-11+}	Energy Levels, Wavelengths	E/T
Al$^{10+-12+}$	Energy Levels, Wavelengths	E/T
Si$^{10+-13+}$	Energy Levels, Wavelengths	E/T
P^{12+}	Energy Levels, Wavelengths	E/T
S^{9+}	Energy Levels, Wavelengths	E/T
S$^{11+-15+}$	Energy Levels, Wavelengths	E/T
Ar$^{13+-17+}$	Energy Levels, Wavelengths	E/T
K^{16+}	Energy Levels, Wavelengths	E/T
Ca$^{11+-19+}$	Energy Levels, Wavelengths	E/T
Cr$^{14+-15+}$	Energy Levels, Wavelengths	E/T
Cr^{21+}	Energy Levels, Wavelengths	E/T
Fe$^{15+-25+}$	Energy Levels, Wavelengths	E/T
Ni$^{15+-16+}$	Energy Levels, Wavelengths	E/T
Ni$^{18+-19+}$	Energy Levels, Wavelengths	E/T
Ni$^{24+-27+}$	Energy Levels, Wavelengths	E/T

461. M. Mattioli, K. B. Fournier, L. Carraro, I. Coffey, C. Giroud, K. Lawson, P. Monier-Garbet, M. O'Mullane, J. Ongena, M. E. Puiatti, F. Sattin, P. Scarin, M. Valisa
Experimental and Simulated Argon Spectra in the 2.3–3.4 nm Region from Tokamak Plasmas
J. Phys. B 34, 127-142 (2001)

Ar^{14+}	Energy Levels, Wavelengths	E/T

462. L. Wallace, M. R. Meyer, K. Hinkle, S. Edwards
Near-Infrared Classification Spectroscopy: J-Band Spectra of Fundamental MK Standards
Astrophys. J. 535, 325-337 (2000)

H	Energy Levels, Wavelengths	Exp
He	Energy Levels, Wavelengths	Exp
C	Energy Levels, Wavelengths	Exp
Na	Energy Levels, Wavelengths	Exp
Mg	Energy Levels, Wavelengths	Exp
Al	Energy Levels, Wavelengths	Exp
Si	Energy Levels, Wavelengths	Exp
K	Energy Levels, Wavelengths	Exp
Ca^{+}	Energy Levels, Wavelengths	Exp
Ti	Energy Levels, Wavelengths	Exp
Mn	Energy Levels, Wavelengths	Exp
Fe	Energy Levels, Wavelengths	Exp
Sr^{+}	Energy Levels, Wavelengths	Exp

463. S. Casassus, P. F. Roche, M. J. Barlow
The Coronal Line Regions of Planetary Nebulae NGC 6302 And 6537: 3–13 μm Grating and Echelle Spectroscopy
Mon. Not. R. Astron. Soc. 314, 657-671 (2000)

He^{0+-1+}	Energy Levels, Wavelengths	Exp
Ne^{+-2+}	Energy Levels, Wavelengths	Exp
Ne^{4+-5+}	Energy Levels, Wavelengths	Exp
Na^{5+-6+}	Energy Levels, Wavelengths	Exp
Mg^{4+}	Energy Levels, Wavelengths	Exp
Mg^{6+-7+}	Energy Levels, Wavelengths	Exp
Al^{4+-5+}	Energy Levels, Wavelengths	Exp
Si^{5+}	Energy Levels, Wavelengths	Exp
Si^{6+}	Energy Levels, Wavelengths	Exp
Si^{8+}	Energy Levels, Wavelengths	Exp
S^{2+-3+}	Energy Levels, Wavelengths	Exp

Ar^{2+}	Energy Levels, Wavelengths	Exp
Ar^{4+}	Energy Levels, Wavelengths	Exp
Ar^{5+}	Energy Levels, Wavelengths	Exp
K^{2+}	Energy Levels, Wavelengths	Exp
K^{6+}	Energy Levels, Wavelengths	Exp

464. A. Ben-Kish, A. Fisher, E. Cheifetz, J. L. Schwob
Extreme Ultraviolet–Vacuum Ultraviolet Spectrum Detection Using Image Plates
Rev. Sci. Instrum. 71, 2651-2654 (2000)

O^{5+}	Energy Levels, Wavelengths	Exp
Ar^{6+-12+}	Energy Levels, Wavelengths	Exp

465. V. Bazin, P. Boduch, M. Chantepie, G. Cremer, E. Jacquet, H. Kucal, D. Lecler
Velocity Dependence of Single-Electron Capture for the 0.4–5-keV/amu Ar^{8+}-Cs(6s) Collision System
Phys. Rev. A 62, 052706 (2000)

Ar^{7+}	Energy Levels, Wavelengths	Exp

466. Z.-C. Yan, G. W. F. Drake
Lithium Isotope Shifts as a Measure of Nuclear Size
Phys. Rev. A 61, 022504 (2000)

Li	Energy Levels, Wavelengths	Th

467. A. Hildebrand, L. Juschkin, M. Kröger
Investigation of Dense Argon Plasmas in a Simple Capillary Discharge
Contrib. Plasma Phys. 40, 130-134 (2000)

Ar^{8+}	Energy Levels, Wavelengths	Exp

468. H. Daido, H.-J. Tang, Y. Kato, K. Murai
Review of Collisional Excitation Neon-like and Nickel-like Soft X-ray Lasers Pumped by Multiple Infrared Laser Pulses at the Institute of Laser Engineering, Osaka University
C. R. Acad. Sci. Ser. IV 1, 999-1018 (2000)

Ge^{4+}	Energy Levels, Wavelengths	Exp
Ag^{19+}	Energy Levels, Wavelengths	Exp
Nd^{32+}	Energy Levels, Wavelengths	Exp
Sm^{34+}	Energy Levels, Wavelengths	Exp
Gd^{36+}	Energy Levels, Wavelengths	Exp
Tb^{37+}	Energy Levels, Wavelengths	Exp
Yb^{42+}	Energy Levels, Wavelengths	Exp
Hf^{44+}	Energy Levels, Wavelengths	Exp
Ta^{45+}	Energy Levels, Wavelengths	Exp

469. D. H. Brooks, G. A. Fischbacher, A. Fludra, R. A. Harrison, D. E. Innes, E. Landi, M. Landini, J. Lang, A. C. Lanzafame, S. D. Loch, R. W. P. McWhirter, H. P. Summers, W. T. Thompson
The Quiet Sun Extreme Ultraviolet Spectrum Observed in Normal Incidence by the SOHO Coronal Diagnostic Spectrometer
Astron. Astrophys. 347, 277-312 (1999)

He^{0+-1+}	Energy Levels, Wavelengths	Exp
C^{2+}	Energy Levels, Wavelengths	Exp
O^{+-4+}	Energy Levels, Wavelengths	Exp
Ne^{3+-6+}	Energy Levels, Wavelengths	Exp
Mg^{3+-9+}	Energy Levels, Wavelengths	Exp
Al^{6+-7+}	Energy Levels, Wavelengths	Exp

Al^{9+-10+}	Energy Levels, Wavelengths	Exp
Si^{7+-11+}	Energy Levels, Wavelengths	Exp
S^{4+}	Energy Levels, Wavelengths	Exp
Ar^{6+-7+}	Energy Levels, Wavelengths	Exp
K^{8+}	Energy Levels, Wavelengths	Exp
Ca^{6+-7+}	Energy Levels, Wavelengths	Exp
Ca^{9+}	Energy Levels, Wavelengths	Exp
Fe^{9+-13+}	Energy Levels, Wavelengths	Exp

470. S. Bliman, M. Cornille, B. A. Huber, H. Lebius, A. Langereis, J. Nordgren, R. Bruch
Collision Spectroscopy of Ar^{8+}+H_2 at Low Velocities (v<1 a.u.)
Phys. Rev. A 60, 2799-2807 (1999)

Ar^{7+}	Energy Levels, Wavelengths	Exp

471. Z.-C. Yan
Double Photoionization of Li and Be^{+} at High-Energy Limits
Phys. Rev. A 60, R3358-R3360 (1999)

Li	Energy Levels, Wavelengths	Th
Li^{0+-1+}	Energy Levels, Wavelengths	Th

472. I. Kink
Spectroscopy of Highly Charged Ions: New Studies in the He, Be, N, O, Na and Mg Isoelectronic Sequences
Thesis, Univ. Lund, Physics Dept., Lund, Sweden , (1999)

He Z= 7-8	Energy Levels, Wavelengths	E/T
O Z= 13-17	Energy Levels, Wavelengths	E/T
Mg Z= 21-26	Energy Levels, Wavelengths	E/T
O^{4+}	Energy Levels, Wavelengths	E/T
$Ar^{10+-11+}$	Energy Levels, Wavelengths	E/T

473. U. Feldman, W. Curdt, G. A. Doschek, U. Schühle, K. Wilhelm, P. Lemaire
High-Temperature Lines in SUMER Spectra Recorded Above a Bright Solar Active Region
Astrophys. J. 503, 467-474 (1998)

$Ar^{11+-12+}$	Energy Levels, Wavelengths	Exp
$Ca^{12+-14+}$	Energy Levels, Wavelengths	Exp
$Fe^{16+-18+}$	Energy Levels, Wavelengths	Exp
$Ni^{12+-14+}$	Energy Levels, Wavelengths	Exp

474. P. S. Antsiferov, L. A. Dorokhin, E. Yu. Khautiev, Yu. V. Sidelnikov, D. A. Glushkov, I. V. Lugovenko, K. N. Koshelev
Dynamics of a Plasma in a Capillary Discharge Driven by a Plasma Focus Operated in the Mode of a Plasma Switch Opening
J. Phys. D 31, 2013-2017 (1998)

Ar^{4+-9+}	Energy Levels, Wavelengths	Exp
Ar^{8+}	Energy Levels, Wavelengths	Exp

475. D. G. Whyte, R. C. Isler, M. R. Wade, D. R. Schultz, P. S. Krstic, C. C. Hung, W. P. West
Argon Density Measurements from Charge-Exchange Spectroscopy
Phys. Plasmas 5, 3694-3699 (1998)

$Ar^{15+-17+}$	Energy Levels, Wavelengths	Exp

476. C. Jordan, G. M. Harper
Identifications of Emission Lines in GHRS Spectra of RR Tel
ASP Conf. Ser. 154, The Tenth Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, San Francisco, CA ¡br¿Astron. Soc. of Pacific, (1998)

He^{+}	Energy Levels, Wavelengths	Exp
C^{3+}	Energy Levels, Wavelengths	Exp
O^{4+-5+}	Energy Levels, Wavelengths	Exp
Ne^{3+}	Energy Levels, Wavelengths	Exp
Al^{5+}	Energy Levels, Wavelengths	Exp
Si^{3+}	Energy Levels, Wavelengths	Exp
Fe^{+-2+}	Energy Levels, Wavelengths	Exp

477. J. C. Raymond, J. L. Kohl, G. Noci, E. Antonucci, G. Tondello, M. C. E. Huber, L. D. Gardner, P. Nicolosi, S. Fineschi, M. Romoli, D. Spadaro, O. H. W. Siegmund, C. Benna, A. Ciaravella, S. Cranmer, S. Giordano, M. Karovska, R. Martin, J. Michels, A. Modigliani, G. Naletto, A. Panasyuk, C. Pernechele, G. Poletto, P. L. Smith, R. M. Suleiman, L. Strachan
Composition of Coronal Streamers from the SOHO Ultraviolet Coronagraph Spectrometer
Sol. Phys. 175, 645-665 (1997)

H	Energy Levels, Wavelengths	Exp
N^{4+}	Energy Levels, Wavelengths	Exp
O^{4+-5+}	Energy Levels, Wavelengths	Exp
Mg^{9+}	Energy Levels, Wavelengths	Exp
Al^{10+}	Energy Levels, Wavelengths	Exp
Si^{11+}	Energy Levels, Wavelengths	Exp
S^{9+}	Energy Levels, Wavelengths	Exp
S$^{11+-12+}$	Energy Levels, Wavelengths	Exp
Ar$^{11+-13+}$	Energy Levels, Wavelengths	Exp
Ca^{9+}	Energy Levels, Wavelengths	Exp
Fe^{9+}	Energy Levels, Wavelengths	Exp
Fe^{11+}	Energy Levels, Wavelengths	Exp
Fe^{12+}	Energy Levels, Wavelengths	Exp
Ni^{12+}	Energy Levels, Wavelengths	Exp

478. J. L. Kohl, G. Noci, E. Antonucci, G. Tondello, M. C. E. Huber, L. D. Gardner, P. Nicolosi, L. Strachan, S. Fineschi, J. C. Raymond, M. Romoli, D. Spadaro, A. Panasyuk, O. H. W. Siegmund, C. Benna, A. Ciaravella, S. R. Cranmer, S. Giordano, M. Karovska, R. Martin, J. Michels, A. Modigliani, G. Naletto, C. Pernechele, G. Poletto, P. L. Smith
First Results from the SOHO Ultraviolet Coronagraph Spectrometer
Sol. Phys. 175, 613-644 (1997)

H	Energy Levels, Wavelengths	Exp
N^{4+}	Energy Levels, Wavelengths	Exp
O^{4+-5+}	Energy Levels, Wavelengths	Exp
Mg^{9+}	Energy Levels, Wavelengths	Exp
Al^{10+}	Energy Levels, Wavelengths	Exp
Si^{11+}	Energy Levels, Wavelengths	Exp
S^{9+}	Energy Levels, Wavelengths	Exp
S$^{11+-12+}$	Energy Levels, Wavelengths	Exp
Ar$^{11+-13+}$	Energy Levels, Wavelengths	Exp
Ca^{9+}	Energy Levels, Wavelengths	Exp
Fe^{9+}	Energy Levels, Wavelengths	Exp
Fe$^{11+-12+}$	Energy Levels, Wavelengths	Exp
Ni^{12+}	Energy Levels, Wavelengths	Exp

479. F. C. McKenna, F. P. Keenan, N. C. Hambly, C. Allende Prieto, W. R. J. Rolleston, L. H. Aller, W. A. Feibelman
The Optical Spectral Line List of RR Telescopii
Astrophys. J., Suppl. Ser. 109, 225-239 (1997)

H	Energy Levels, Wavelengths	Exp
He^{0+-1+}	Energy Levels, Wavelengths	Exp
C^{+-4+}	Energy Levels, Wavelengths	Exp

N^{0+-4+}	Energy Levels, Wavelengths	Exp
O^{0+-5+}	Energy Levels, Wavelengths	Exp
Ne^{+-3+}	Energy Levels, Wavelengths	Exp
Na^{4+}	Energy Levels, Wavelengths	Exp
Mg^{0+-1+}	Energy Levels, Wavelengths	Exp
Si^{0+-3+}	Energy Levels, Wavelengths	Exp
S^{+-2+}	Energy Levels, Wavelengths	Exp
Ar^{2+-4+}	Energy Levels, Wavelengths	Exp
K^{3+-4+}	Energy Levels, Wavelengths	Exp
Ca^{+}	Energy Levels, Wavelengths	Exp
Ca^{4+-6+}	Energy Levels, Wavelengths	Exp
Sc^{+}	Energy Levels, Wavelengths	Exp
Ti^{+}	Energy Levels, Wavelengths	Exp
V^{+}	Energy Levels, Wavelengths	Exp
Cr^{+}	Energy Levels, Wavelengths	Exp
Cr^{3+-4+}	Energy Levels, Wavelengths	Exp
Mn^{3+}	Energy Levels, Wavelengths	Exp
Fe^{+-6+}	Energy Levels, Wavelengths	Exp
Co^{+}	Energy Levels, Wavelengths	Exp
Co^{5+-6+}	Energy Levels, Wavelengths	Exp
Ni^{0+-5+}	Energy Levels, Wavelengths	Exp
Ni^{7+}	Energy Levels, Wavelengths	Exp
Cu^{+}	Energy Levels, Wavelengths	Exp
Zr^{+}	Energy Levels, Wavelengths	Exp

480. H. Hegazy, S. Büscher, H.-J. Kunze, Th. Wrubel
Profiles of Transitions in Ar VIII
J. Quant. Spectrosc. Radiat. Transfer 58, 627-635 (1997)

Ar^{7+}	Energy Levels, Wavelengths	Exp

481. C. Laulhé, E. Jacquet, G. Cremer, J. Pascale, Ph. Boduch, G. Rieger, M. Chantepie, D. Lecler
Projectile Velocity Dependence of Emission Line Polarization Degrees Following Slow Ar^{8+}-Li(2s) State-Selective Electron-Capture Collisions
Phys. Rev. A 55, 1088-1098 (1997)

Ar^{7+}	Energy Levels, Wavelengths	Exp

482. A. Hildebrand, A. Ruhrmann, S. Maurmann, H.-J. Kunze
Amplified Spontaneous Emission on the J = 2 → 1, 3p-3s Transition of Neonlike Argon in a Capillary Discharge
Phys. Lett. A 221, 335-338 (1996)

O^{2+}	Energy Levels, Wavelengths	Exp
Ar^{3+-8+}	Energy Levels, Wavelengths	Exp

483. L. Wallace, K. Hinkle
High-Resolution Spectra of Ordinary Cool Stars in the K Band
Astrophys. J., Suppl. Ser. 107, 312-390 (1996)

H	Energy Levels, Wavelengths	Exp
C	Energy Levels, Wavelengths	Exp
Na	Energy Levels, Wavelengths	Exp
Mg	Energy Levels, Wavelengths	Exp
Al	Energy Levels, Wavelengths	Exp
Si	Energy Levels, Wavelengths	Exp
S	Energy Levels, Wavelengths	Exp
Ca^{0+-1+}	Energy Levels, Wavelengths	Exp
Sc	Energy Levels, Wavelengths	Exp
Ti	Energy Levels, Wavelengths	Exp

V	Energy Levels, Wavelengths	Exp
Fe	Energy Levels, Wavelengths	Exp
Ni	Energy Levels, Wavelengths	Exp

484. T. Bastin
Contribution à l'étude des ions N II, Ne IV et Ne V par les méthodes faisceau-lame et faisceau-lame-laser
Thesis, Univ. Li'ege, Belgium , (1996)

Ne^{0+-7+}	Energy Levels, Wavelengths	Exp
Ne^{3+}	Energy Levels, Wavelengths	Exp
Ne^{4+}	Energy Levels, Wavelengths	Exp

485. W. L. Wiese, J. R. Fuhr, T. M. Deters
Atomic Transition Probabilities of Carbon, Nitrogen, and Oxygen – A Critical Data Compilation, J. Phys. Chem. Ref. Data, Monograph No. 7
, Melville, NY ¡br¿AIP Press, (1996)

N^{6+}	Energy Levels, Wavelengths	Th

486. M. Keim, E. Arnold, W. Borchers, U. Georg, A. Klein, R. Neugart, L. Vermeeren, R. E. Silverans, P. Lievens
Laser-Spectroscopy Measurements of $^{72-96}$Kr Spins, Moments and Charge Radii
Nucl. Phys. A586, 219-239 (1995)

Kr	Energy Levels, Wavelengths	Exp

487. E. Jacquet, J. Pascale, P. Boduch, M. Chantepie, D. Lecler
Velocity Effect in the ℓ-Distribution of the Electron Capture in Collisions of Highly Charged Ar^{8+} Ions with a Li(2s) Target
Nucl. Instrum. Methods Phys. Res. B 98, 218-222 (1995)

Ar^{7+}	Energy Levels, Wavelengths	Exp

488. C. Laulhé, E. Jacquet, G. Cremer, J. Pascale, P. Boduch, G. Rieger, D. Lecler, M. Chantepie, J. L. Cojan
Polarization of Lines Emitted After Electron Capture into Ar^{7+}(nℓm$_\ell$) Sublevels During 80-keV Ar^{8+}-Li Collisions
Phys. Rev. A 52, 3803-3808 (1995)

Ar^{7+}	Energy Levels, Wavelengths	Exp

489. E. Schmieder, H.-J. Kunze
Relative Intensities of Δn=0 Transitions within the n=2 and n=3 Levels in Nitrogenlike Ar XII from a θ-Pinch Plasma
Phys. Rev. E 51, 5143-5146 (1995)

Ar^{6+-12+}	Energy Levels, Wavelengths	Exp

490. E. Jacquet, J. Pascale, P. Boduch, M. Chantepie, D. Lecler
Velocity and Core-Electron Effects in State-Selective Electron Capture Following Ar^{8+}-Li Collisions
J. Phys. B 28, 2221-2231 (1995)

Ar^{7+}	Energy Levels, Wavelengths	Exp

491. A. M. James, P. Kowalczyk, E. Langlois, M. D. Campbell, A. Ogawa, B. Simard
Resonant Two Photon Ionization Spectroscopy of the Molecules V_2, VNb, and Nb_2
J. Chem. Phys. 101, 4485-4495 (1994)

V	Energy Levels, Wavelengths	Exp

492. J. J. Rocca, V. Shlyaptsev, F. G. Tomasel, O. D. Cortázar, D. Hartshorn, J. L. A. Chilla
Demonstration of a Discharge Pumped Table-Top Soft-X-Ray Laser
Phys. Rev. Lett. 75, 1236 (1994)

Ar^{5+-8+}	Energy Levels, Wavelengths	Exp

493. A. Denis, S. Martin, L. Chen, J. Désesquelles
Velocity Dependence of Captured-Electron ℓ Distributions in Low-Energy Collisions of Ar^{8+} with Atomic Cs
Phys. Rev. A 50, 2263-2268 (1994)

Ar^{7+}	Energy Levels, Wavelengths	Exp

494. M.-K. Chen, K. T. Chung
Absolute Term Energy of Core-Excited Doublet States of Lithium
Phys. Rev. A 49, 1675-1685 (1994)

Li	Energy Levels, Wavelengths	Th

495. K. L. Bell, A. E. Kingston
Photoionisation of Atomic Oxygen and Atomic Nitrogen
Adv. At. Mol. Opt. Phys. 32, 1-18 (1994)

N	Energy Levels, Wavelengths	Th
O	Energy Levels, Wavelengths	Th

496. J. Nilsen, J. A. Koch, J. H. Scofield, B. J. MacGowan, J. C. Moreno, L. B. Da Silva
Observation of Hyperfine Splitting on an X-ray Laser Transition
Phys. Rev. Lett. 70, 3713-3716 (1993)

Nb^{31+}	Energy Levels, Wavelengths	Exp

497. N. Preissing, D. O. Campos, H.-J. Kunze, A. L. Osterheld, R. S. Walling
Relative Intensities of 3p-3s Transitions in Neonlike Ar IX
Phys. Rev. E 48, 3867-3870 (1993)

Ar^{8+}	Energy Levels, Wavelengths	Exp

498. J. J. Rocca, O. D. Cortázar, B. Szapiro, K. Floyd, F. G. Tomasel
Fast-Discharge Excitation of Hot Capillary Plasmas for Soft-X-ray Amplifiers
Phys. Rev. E 47, 1299-1304 (1993)

O^{5+}	Energy Levels, Wavelengths	Exp
Ar^{9+-13+}	Energy Levels, Wavelengths	Exp

499. P. Boduch, M. Chantepie, D. Hennecart, X. Husson, H. Kucal, D. Lecler, N. Stolterfoht, B. C. Fawcett
Single and Double Electron Capture in 105 keV Ar^{7+}–He (H_2) Collisions
Z. Phys. D 21, S289-S290 (1991)

Ar^{5+-6+}	Energy Levels, Wavelengths	Exp

500. G. A. Doschek, A. K. Bhatia
Solar Coronal Ar/Fe and Ne/Mg Abundance Ratios Derived from Ultraviolet Forbidden Line Spectra
Astrophys. J. 358, 338-343 (1990)

Ne^{4+}	Energy Levels, Wavelengths	Exp
Mg^{4+}	Energy Levels, Wavelengths	Exp
Ar^{10+}	Energy Levels, Wavelengths	Exp
Ca^{14+}	Energy Levels, Wavelengths	Exp
Fe^{11+}	Energy Levels, Wavelengths	Exp

501. A. Ioannidou-Phili, A. A. Christodoulides
Silicon Transitions, $3p^2 \rightarrow\rightarrow 3pnf$ (n=4, 5) and $3p^2 \rightarrow\rightarrow 3p6p$, Detected in the Multiphoton Dissociation of Phenylsilane
Z. Phys. D 16, 271-274 (1990)

Si	Energy Levels, Wavelengths	Exp

502. E. Träbert, S. Mannervik
Satellite Lines from Core-Excited States in Neutral Lithium
Phys. Rev. A 40, 1667-1669 (1989)

Li	Energy Levels, Wavelengths	Exp

503. P. Boduch, M. Chantepie, D. Hennecart, X. Husson, H. Kucal, D. Lecler, I. Lesteven-Vaïsse
Photon Emission Spectroscopy of Single and Double Electron Capture in Ar^{8+}-He or H_2 Collisions
J. Phys. B 22, L377-L380 (1989)

Ar^{7+}	Energy Levels, Wavelengths	Exp

504. H. Bergström, W. X. Peng, A. Persson
Two Different Types of Hollow-Cathode Discharges Used for High Resolution Laser Spectroscopy on Copper
Z. Phys. D 13, 203-206 (1989)

Cu	Energy Levels, Wavelengths	Exp

505. D. S. Gough, P. Hannaford
High Quality Saturated Absorption Spectroscopy in a Sputtered Vapour: Application to Hyperfine Structure in Zr I
Opt. Commun. 67, 209-213 (1988)

Zr	Energy Levels, Wavelengths	Exp

506. S. Bliman, J. P. Desclaux, D. Hitz, P. Indelicato, P. Marseille
Collision Aspects and Spectroscopy of Higher Excited States in Magnesium-like Argon
Nucl. Instrum. Methods Phys. Res. B 31, 330-335 (1988)

Ar^{6+}	Energy Levels, Wavelengths	Exp

507. N. Stolterfoht
High Resolution Auger Spectroscopy in Energetic Ion Atom Collisions
Phys. Rep. 146, 315-424 (1987)

Li	Energy Levels, Wavelengths	E/T
Li^+	Energy Levels, Wavelengths	E/T
Be^{0+-2+}	Energy Levels, Wavelengths	E/T
B^{+-3+}	Energy Levels, Wavelengths	E/T
C^{2+-4+}	Energy Levels, Wavelengths	E/T
O^{4+-6+}	Energy Levels, Wavelengths	E/T
F^{7+}	Energy Levels, Wavelengths	E/T
Ne^{6+-8+}	Energy Levels, Wavelengths	E/T

508. O. L. Bourne, M. R. Humphries, S. A. Mitchell, P. A. Hackett
A High Resolution Laser Induced Fluorescence Study of a Supersonic Zirconium Atom Beam
Opt. Commun. 56, 403-408 (1986)

Zr	Energy Levels, Wavelengths	Exp

509. H. C. Meng, P. Greve, H.-J. Kunze, T. Schmidt
Experimental Rate Coefficients for Dielectronic Recombination and Ionization of Ar VIII to Ar XII
Phys. Rev. A 31, 3276-3281 (1985)

Ar^{6+-11+}	Energy Levels, Wavelengths	Exp

510. Ş. Ateş, G. Çelik, G. Tekeli, M. Taşer
Oscillator strengths of allowed transitions for O III
At. Data Nucl. Data Tables 98, 1-18 (2012)

O^{2+}	Trans. prob., Oscill. Strengths	Th

511. K. Yüce, F. Castelli, S. Hubrig
Wavelengths and oscillator strengths of Xe II from the UVES spectra of four HgMn stars
Astron. Astrophys. 528, A37 (2011)

Xe^{+}	Trans. prob., Oscill. Strengths	Exp

512. G. Y. Liang, N. R. Badnell
R-matrix electron-impact excitation data for the Li-like iso-electronic sequence including Auger and radiation damping
Astron. Astrophys. 528, A69 (2011)

Li Z= 4-36	Trans. prob., Oscill. Strengths	Th

513. R. Blackwell-Whitehead, Y. V. Pavlenko, G. Nave, J. C. Pickering, H. R. A. Jones, Y. Lyubchik, H. Nilsson
Infrared Mn I laboratory oscillator strengths for the study of late type stars and ultracool dwarfs
Astron. Astrophys. 525, A44 (2011)

Mn	Trans. prob., Oscill. Strengths	Exp

514. P. Palmeri, P. Quinet, C. Mendoza, M. A. Bautista, J. García, M. C. Witthoeft, T. R. Kallman
Atomic decay data for modeling the Al K lines
Astron. Astrophys. 525, A59 (2011)

Al^{4+-11+}	Trans. prob., Oscill. Strengths	Th

515. H. Elabidi, S. Sahal-Bréchot, M. S. Dimitrijević, N. Ben Nessib
Quantum Stark broadening data for the C IV, N V, O VI, F VII and Ne VIII resonance doublets
Mon. Not. R. Astron. Soc. 417, 2624-2630 (2011)

Li Z= 6-10	Trans. prob., Oscill. Strengths	Th

516. G. Malcheva, H. Nilsson, L. Engström, H. Lundberg, É. Biémont, P. Palmeri, P. Quinet, K. Blagoev
Radiative parameters of Nb I excited states
Mon. Not. R. Astron. Soc. 412, 1823-1827 (2011)

Nb	Trans. prob., Oscill. Strengths	E/T

517. J.-G. Li, C.-Z. Dong, P. Jönsson, G. Gaigalas
M_F-dependent hyperfine induced transition rates in an external magnetic field for Be-like ^{47}Ti^{18+}
Phys. Lett. A 375, 914-917 (2011)

Ti^{18+}	Trans. prob., Oscill. Strengths	Th

518. F. Hu, J.-M. Yang, G. Jiang, C.-K. Wang, X.-F. Zhao
Wavelengths, oscillator strengths and radiative transition rates for Kα lines in titanium x-ray spectra
Phys. Scr. T144, 014006 (2011)

Ti$^{13+-20+}$	Trans. prob., Oscill. Strengths	Th

519. F. Hu, G. Jiang, J. M. Yang, J. Y. Zhang, X. F. Zhao
Energy levels and oscillator strength of Ni XXIII
Acta Phys. Pol. A 120-3, 429-437 (2011)

Ni^{22+}	Trans. prob., Oscill. Strengths	Th

520. G. Çelik, Ş. Ateş, S. Özarslan, M. Taşer
Transition probabilities, oscillator strengths and lifetimes for singly ionized magnesium
J. Quant. Spectrosc. Radiat. Transfer 112, 2330-2334 (2011)

Mg^{+}	Trans. prob., Oscill. Strengths	Th

521. B. B. Jensen, H. Ming, P. G. Westergaard, K. Gunnarsson, M. H. Madsen, A. Brusch, J. Hald, J. W. Thomsen
Experimental Determination of the ^{24}Mg I (3s3p)^{3}P$_2$ Lifetime
Phys. Rev. Lett. 107, 199901 (2011)

Mg	Trans. prob., Oscill. Strengths	Exp

522. E. Landi
Atomic data and spectral line intensities for Fe XV
At. Data Nucl. Data Tables 97, 587-647 (2011)

Fe^{14+}	Trans. prob., Oscill. Strengths	Th

523. S. S. Tayal
Transition probabilities and oscillator strengths of E1 transitions in Fe XII and Fe XIV
At. Data Nucl. Data Tables 97, 481-566 (2011)

Fe^{11+}	Trans. prob., Oscill. Strengths	Th
Fe^{13+}	Trans. prob., Oscill. Strengths	Th

524. S. N. Nahar
Oscillator strengths and transition probabilities for allowed and forbidden transitions in Fe XIX
At. Data Nucl. Data Tables 97, 403-425 (2011)

Fe^{18+}	Trans. prob., Oscill. Strengths	Th

525. A. K. Bhatia, E. Landi
Atomic data and spectral line intensities for Ni XVII
At. Data Nucl. Data Tables 97, 189-224 (2011)

Ni^{16+}	Trans. prob., Oscill. Strengths	Th

526. A. K. Bhatia, E. Landi
Atomic data and spectral line intensities for Ni XI
At. Data Nucl. Data Tables 97, 50-108 (2011)

Ni^{10+}	Trans. prob., Oscill. Strengths	Th

527. E. P. Ivanova
Transition probabilities for 5s-5p, 5p-5d, 4f-5d, and 5d-5f transitions in Ag-like ions with Z=50–86
At. Data Nucl. Data Tables 97, 1-22 (2011)

Ag Z= 50-86	Trans. prob., Oscill. Strengths	Th

528. L. Zhuo, B.-C. Gou, F. Wang
Energies and Auger widths of the high-lying double-excited states for Be-like neon
Can. J. Phys. 89, 697-702 (2011)

Ne^{6+}	Trans. prob., Oscill. Strengths	Th

529. M. H. Chen, K. T. Cheng
Hyperfine quenching of the metastable 4s4p ^{3}P$_0$ and ^{3}P$_2$ states of Zn-like ions
Can. J. Phys. 89, 473-482 (2011)

Zn Z= 30-66	Trans. prob., Oscill. Strengths	Th
Zn	Trans. prob., Oscill. Strengths	Th
Ga^{+}	Trans. prob., Oscill. Strengths	Th
Ge^{2+}	Trans. prob., Oscill. Strengths	Th
As^{3+}	Trans. prob., Oscill. Strengths	Th
Se^{4+}	Trans. prob., Oscill. Strengths	Th
Br^{5+}	Trans. prob., Oscill. Strengths	Th
Kr^{6+}	Trans. prob., Oscill. Strengths	Th
Rb^{7+}	Trans. prob., Oscill. Strengths	Th
Sr^{8+}	Trans. prob., Oscill. Strengths	Th
Y^{9+}	Trans. prob., Oscill. Strengths	Th
Zr^{10+}	Trans. prob., Oscill. Strengths	Th
Nb^{11+}	Trans. prob., Oscill. Strengths	Th
Mo^{12+}	Trans. prob., Oscill. Strengths	Th
In^{19+}	Trans. prob., Oscill. Strengths	Th
Xe^{24+}	Trans. prob., Oscill. Strengths	Th
Dy^{36+}	Trans. prob., Oscill. Strengths	Th

530. S. N. Nahar
High accuracy radiative data for plasma opacities
Can. J. Phys. 89, 439-449 (2011)

Fe^{18+}	Trans. prob., Oscill. Strengths	Th

531. W. R. Johnson
Hyperfine quenching: Review of experiment and theory
Can. J. Phys. 89, 429-437 (2011)

N^{3+}	Trans. prob., Oscill. Strengths	E/T
F^{7+}	Trans. prob., Oscill. Strengths	E/T
Mg	Trans. prob., Oscill. Strengths	E/T
Al^{+}	Trans. prob., Oscill. Strengths	E/T
Al^{11+}	Trans. prob., Oscill. Strengths	E/T
P^{13+}	Trans. prob., Oscill. Strengths	E/T
Ca	Trans. prob., Oscill. Strengths	E/T
Sc^{19+}	Trans. prob., Oscill. Strengths	E/T
Ti^{18+}	Trans. prob., Oscill. Strengths	E/T
V^{21+}	Trans. prob., Oscill. Strengths	E/T
Mn^{23+}	Trans. prob., Oscill. Strengths	E/T
Co^{25+}	Trans. prob., Oscill. Strengths	E/T
Ni^{26+}	Trans. prob., Oscill. Strengths	E/T
Cu^{27+}	Trans. prob., Oscill. Strengths	E/T
Ga^{29+}	Trans. prob., Oscill. Strengths	E/T
Br^{33+}	Trans. prob., Oscill. Strengths	E/T
Rb^{35+}	Trans. prob., Oscill. Strengths	E/T
Sr	Trans. prob., Oscill. Strengths	E/T
Nb^{39+}	Trans. prob., Oscill. Strengths	E/T
Tc^{41+}	Trans. prob., Oscill. Strengths	E/T

Ag^{45+}	Trans. prob., Oscill. Strengths	E/T
Gd^{62+}	Trans. prob., Oscill. Strengths	E/T
Yb	Trans. prob., Oscill. Strengths	E/T
Au^{77+}	Trans. prob., Oscill. Strengths	E/T

532. J.-J. Wan, C.-Z. Dong
The effects of quantum interference between direct and resonant photorecombination of H-like Ar^{17+} ions
Phys. Scr. 84, 045301 (2011)

Ar^{16+}	Trans. prob., Oscill. Strengths	Th

533. F. Hu, C.-K. Wang, J.-M. Yang, G. Jiang, L.-H. Hao
Multiconfiguration Dirac-Fock calculations of transition probabilities of some tungsten ions
Phys. Scr. 84, 015302 (2011)

W^{61+}	Trans. prob., Oscill. Strengths	Th
W^{62+}	Trans. prob., Oscill. Strengths	Th

534. U. I. Safronova, A. S. Safronova
Correlation and relativistic effects for the 4f-nl and 5p-nl multipole transitions in Er-like tungsten
Phys. Rev. A 84, 012511 (2011)

W^{6+}	Trans. prob., Oscill. Strengths	Th

535. L. Sharma, A. Surzhykov, R. Srivastava, S. Fritzsche
Electron-impact excitation of singly charged metal ions
Phys. Rev. A 83, 062701 (2011)

Mg^+	Trans. prob., Oscill. Strengths	Th
Ca^+	Trans. prob., Oscill. Strengths	Th
Zn^+	Trans. prob., Oscill. Strengths	Th
Cd^+	Trans. prob., Oscill. Strengths	Th
Ba^+	Trans. prob., Oscill. Strengths	Th

536. A. V. Volotka, A. Surzhykov, V. M. Shabaev, G. Plunien
Interelectronic-interaction effects on the two-photon decay rates of heavy He-like ions
Phys. Rev. A 83, 062508 (2011)

He Z= 28-92	Trans. prob., Oscill. Strengths	Th

537. T. Carette, M. R. Godefroid
Theoretical study of the C^- $^4S^\circ_{3/2}$ and $^2D^\circ_{3/2,5/2}$ bound states and C ground configuration: Fine and hyperfine structures, isotope shifts, and transition probabilities
Phys. Rev. A 83, 062505 (2011)

C^-	Trans. prob., Oscill. Strengths	Th
C	Trans. prob., Oscill. Strengths	Th

538. G. P. Gupta, A. Z. Msezane
Fine-structure energy levels, oscillator strengths and lifetimes in Cu XVI
Phys. Scr. 83, 055301 (2011)

Cu^{15+}	Trans. prob., Oscill. Strengths	Th

539. D. C. Morton, G. W. F. Drake
Spin-forbidden radiative decay rates from the 3 $^3P_{1,2}$ and 3 $^1P_1$ states of helium
Phys. Rev. A 83, 042503 (2011)

He	Trans. prob., Oscill. Strengths	Th

540. Yu. Ralchenko, I. N. Draganić, D. Osin, J. D. Gillaspy, J. Reader
Spectroscopy of diagnostically important magnetic-dipole lines in highly charged $3d^n$ ions of tungsten
Phys. Rev. A 83, 032517 (2011)

$W^{47+-55+}$	Trans. prob., Oscill. Strengths	Th

541. G. Gaigalas, Z. Rudzikas, P. Rynkun, A. Alkauskas
Dependence of the probabilities of the electric-multipole electron transitions in W^{24+} on multipolarity
Phys. Rev. A 83, 032509 (2011)

W^{24+}	Trans. prob., Oscill. Strengths	Th

542. L. Zhang, G. Jiang, L.-H. Hao, B.-L. Deng
Relativistic configuration interaction calculations on Kα x-ray satellites of krypton
Phys. Scr. 83, 025302 (2011)

$Kr^{26+-34+}$	Trans. prob., Oscill. Strengths	Th

543. K. M. Aggarwal, T. Kato, F. P. Keenan, I. Murakami
Energy levels, radiative rates and electron impact excitation rates for transitions in He-like Li II, Be III, B IV and C V
Phys. Scr. 83, 015302 (2011)

He Z= 3-6	Trans. prob., Oscill. Strengths	Th

544. S. S. Tayal
Accurate transition rates for intercombination lines of singly ionized nitrogen
Phys. Rev. A 83, 012515 (2011)

N^+	Trans. prob., Oscill. Strengths	Th

545. P. Beiersdorfer, M. Obst, U. I. Safronova
Radiative decay probabilities of the $(2s^2 2p^5_{1/2} 3s_{1/2})_{J=0}$ level in neonlike ions
Phys. Rev. A 83, 012514 (2011)

Ne Z= 13-109	Trans. prob., Oscill. Strengths	Th
Ne Z= 35-109	Trans. prob., Oscill. Strengths	Th

546. L.-H. Hao, G. Jiang
Energy levels, transition rates, and line strengths of B-like ions
Phys. Rev. A 83, 012511 (2011)

Al^{8+}	Trans. prob., Oscill. Strengths	Th
Mn^{20+}	Trans. prob., Oscill. Strengths	Th
Fe^{21+}	Trans. prob., Oscill. Strengths	Th
Co^{22+}	Trans. prob., Oscill. Strengths	Th
Ni^{23+}	Trans. prob., Oscill. Strengths	Th
Cu^{24+}	Trans. prob., Oscill. Strengths	Th
Zn^{25+}	Trans. prob., Oscill. Strengths	Th
Mo^{37+}	Trans. prob., Oscill. Strengths	Th
Au^{74+}	Trans. prob., Oscill. Strengths	Th

547. T. Nandi, A. P. Mishra, B. N. Jagatap
Observation of transitions involving core-excited states in Ar III and Ar IV and high-lying singly excited states in Ar I–Ar IV
J. Quant. Spectrosc. Radiat. Transfer 80, 2771-2778 (2011)

Ar^{2+}	Trans. prob., Oscill. Strengths	Exp

548. R. Kumar, S. N. Tiwary, R. P. K. Ray
Excitation energies and oscillator strengths for the $1s^2 2s^2 2p^6 3s^2 3p^6 3d\ ^2D^e \rightarrow 1s^2 2s^2 2p^6 3s^2 3p^5 3d^2\ ^2P^\circ$, $^2D^\circ$, $^2F^\circ$ transitions in V^{4+}
Pramana 76, 471-476 (2011)

V^{4+}	Trans. prob., Oscill. Strengths	Th

549. J. P. Santos, A. M. Costa, C. Madruga, F. Parente, P. Indelicato
Relativistic transition wavelengths and probabilities for spectral lines of Ne II
Eur. Phys. J. D 63, 89-96 (2011)

Ne^{+}	Trans. prob., Oscill. Strengths	Th

550. F. Hu, G. Jiang, J. M. Yang, C. K. Wang, X. F. Zhao, L. H. Hao
Effects of valence-valence, core-valence and core-core correlations on the fine-structure energy levels in Zn-like ions
Eur. Phys. J. D 61, 15-20 (2011)

Yb^{40+}	Trans. prob., Oscill. Strengths	Th
W^{44+}	Trans. prob., Oscill. Strengths	Th
Os^{46+}	Trans. prob., Oscill. Strengths	Th
Au^{49+}	Trans. prob., Oscill. Strengths	Th
Pb^{52+}	Trans. prob., Oscill. Strengths	Th
Bi^{53+}	Trans. prob., Oscill. Strengths	Th
Th^{60+}	Trans. prob., Oscill. Strengths	Th
U^{62+}	Trans. prob., Oscill. Strengths	Th

551. P. Amaro, A. Surzhykov, F. Parente, P. Indelicato, J. P. Santos
Calculation of two-photon decay rates of hydrogen-like ions by using B-polynomials
J. Phys. A 44, 245302 (2011)

H	Trans. prob., Oscill. Strengths	Th
Zr^{39+}	Trans. prob., Oscill. Strengths	Th
U^{91+}	Trans. prob., Oscill. Strengths	Th

552. U. I. Safronova, P. G. Wilcox, A. S. Safronova
Relativistic calculations of dielectronic recombination and satellite lines of an Ar-like Ni ion
J. Phys. B 44, 225002 (2011)

Ni^{9+}	Trans. prob., Oscill. Strengths	Th

553. P. Quinet
Dirac-Fock calculations of forbidden transitions within the $3p^k$ and $3d^k$ ground configurations of highly charged tungsten ions (W^{47+}–W^{61+})
J. Phys. B 44, 195007 (2011)

$W^{47+-61+}$	Trans. prob., Oscill. Strengths	Th

554. P. Quinet, P. Palmeri, É. Biémont
Spectroscopic data for atomic tungsten transitions of interest in fusion plasma research
J. Phys. B 44, 145005 (2011)

W	Trans. prob., Oscill. Strengths	Th

555. X.-B. Ding, F. Koike, I. Murakami, D. Kato, H. A. Sakaue, C.-Z. Dong, N. Nakamura, A. Komatsu, J. Sakoda
Ab initio multi-configuration Dirac-Fock calculation of M1 visible transitions among the ground state multiplets of the W^{26+} ion
J. Phys. B 44, 145004 (2011)

W^{26+}	Trans. prob., Oscill. Strengths	Th

556. C. Froese Fischer
Correlation effects on transition probabilities in Mo VI
J. Phys. B 44, 125001 (2011)

Mo^{5+}	Trans. prob., Oscill. Strengths	Th

557. M. Gallardo, M. Raineri, J. Reyna Almandos, É. Biémont
New energy levels, calculated lifetimes and transition probabilities in Xe IX
J. Phys. B 44, 045001 (2011)

Xe^{8+}	Trans. prob., Oscill. Strengths	Th

558. U. I. Safronova, A. S. Safronova, P. Beiersdorfer, W. R. Johnson
Excitation energies, radiative and autoionization rates, dielectronic satellite lines and dielectronic recombination rates for excited states of Ag-like W from Pd-like W
J. Phys. B 44, 035005 (2011)

W^{27+}	Trans. prob., Oscill. Strengths	Th

559. I. I. Guseinov, B. A. Mamedov
Calculation of electric multipole transition radial matrix elements, oscillator strengths and Einstein coefficients over nonrelativistic radial wave function using Slater type orbitals
Astroparticle Phys. 35, 649-651 (2011)

H Z= 1-10	Trans. prob., Oscill. Strengths	Th

560. F. Hu, G. Jiang, J.-M. Yang, C.-K. Wang, X.-F. Zhao, H.-P. Zang
Multi-configuration Dirac-Hartree-Fock (MCDHF) calculations for Zn-like sequence from Z = 48 to 54
Chin. Phys. B 20, 063103 (2011)

Zn Z= 48-54	Trans. prob., Oscill. Strengths	Th

561. C. Cheng, X. Gao, B. Qing, X.-L. Zhang, J.-M. Li
Relativistic calculations of $3s^2\ {}^1S_0$-$3s3p\ {}^1P_1$ and $3s^2\ {}^1S_0$-$3s3p\ {}^3P_{1,2}$ transition probabilities in the Mg isoelectronic sequence
Chin. Phys. B 20, 033103 (2011)

Mg Z= 12-16	Trans. prob., Oscill. Strengths	Th

562. K. Bartschat, O. Zatsarinny
Benchmark calculations of atomic data for plasma and lighting applications
Plasma Sources Sci. Technol. 20, 024012 (2011)

Xe	Trans. prob., Oscill. Strengths	Th

563. E. Träbert, M. Grieser, J. Hoffmann, C. Krantz, S. Reinhardt, R. Repnow, A. Wolf, P. Indelicato
M1, M2 and hyperfine-induced decay rates in Mg-like ions of Co, Ni and Cu measured at a heavy-ion storage ring
New J. Phys. 13, 023017 (2011)

Mg Z= 27-29	Trans. prob., Oscill. Strengths	E/T
Co^{15+}	Trans. prob., Oscill. Strengths	E/T
Ni^{16+}	Trans. prob., Oscill. Strengths	E/T
Cu^{17+}	Trans. prob., Oscill. Strengths	E/T

564. F. Hu, J.-M. Yang, C.-K. Wang, G. Jiang, X.-F. Zhao, H.-P. Zang
Multiconfiguration Dirac-Fock results for forbidden transitions in the $2p^4$ configuration
Cent. Eur. J. Phys. 9, 1228-1236 (2011)

O Z= 20-30	Trans. prob., Oscill. Strengths	Th
O	Trans. prob., Oscill. Strengths	Th

565. E. Louzon, A. Feigel, Y. Frank, E. Raicher, M. Klapisch, P. Mandelbaum, I. Levy, G. Hurvitz, Y. Ehrlich, M. Frankel, S. Maman, Z. Henis
X-ray spectral measurements and collisional radiative modeling of laser produced iron plasma
High En. Dens. Phys. 7, 124-129 (2011)

Fe^{23+}	Trans. prob., Oscill. Strengths	Th

566. H. G. Wei, J. R. Shi, G. Zhao, Z. T. Liang
K-Shell energy levels and radiative rates for transitions in Si XI
Astron. Astrophys. 522, A103 (2010)

Si^{10+}	Trans. prob., Oscill. Strengths	Th

567. F. Castelli, R. L. Kurucz
New Fe II energy levels from stellar spectra
Astron. Astrophys. 520, A57 (2010)

Fe^{+}	Trans. prob., Oscill. Strengths	Th

568. G. Y. Liang, N. R. Badnell
R-matrix electron-impact excitation data for the Ne-like iso-electronic sequence
Astron. Astrophys. 518, A64 (2010)

Ne Z= 11-36	Trans. prob., Oscill. Strengths	Th

569. Z.-W. Chang, J.-G. Li, C.-Z. Dong
Ionization potentials, electron affinities, resonance excitation energies, oscillator strengths, and ionic radii of element Uus (Z = 117) and astatine
J. Phys. Chem. A 114, 13388-13394 (2010)

Cl	Trans. prob., Oscill. Strengths	Th
Br	Trans. prob., Oscill. Strengths	Th
I	Trans. prob., Oscill. Strengths	Th
At	Trans. prob., Oscill. Strengths	Th
Uus	Trans. prob., Oscill. Strengths	Th

570. S. G. Nakhate, S. Mukund, S. Bhattacharyya
Radiative lifetime measurements in neutral zirconium using time-resolved laser induced fluorescence in supersonic free-jet
J. Quant. Spectrosc. Radiat. Transfer 111, 394-398 (2010)

Zr	Trans. prob., Oscill. Strengths	Exp

571. K. M. Aggarwal, F. P. Keenan
Energy levels, radiative rates and electron impact excitation rates for transitions in Si XII, Si XIII and Si XIV
Phys. Scr. 82, 065302 (2010)

$Si^{11+-13+}$	Trans. prob., Oscill. Strengths	Th

572. L. Natarajan, A. Natarajan, R. Kadrekar
Relativistic fine-structure oscillator strengths for Li-like ions
Phys. Rev. A 82, 062514 (2010)

Li Z= 14-54	Trans. prob., Oscill. Strengths	Th

573. K. M. Aggarwal, F. P. Keenan, R. F. Heeter
Energy levels, radiative rates and electron impact excitation rates for transitions in H-like N VII, O VIII, F IX, Ne X and Na XI
Phys. Scr. 82, 015006 (2010)

N^{6+}	Trans. prob., Oscill. Strengths	Th
O^{7+}	Trans. prob., Oscill. Strengths	Th
F^{8+}	Trans. prob., Oscill. Strengths	Th
Ne^{9+}	Trans. prob., Oscill. Strengths	Th
Na^{10+}	Trans. prob., Oscill. Strengths	Th

574. I. Ahmad, M. A. Baig, A. Rashid
Measurements of the relative oscillator strengths of the principal series of copper
Int. J. Mod. Phys. B 24, 2189-2197 (2010)

Cu	Trans. prob., Oscill. Strengths	Exp

575. B.-W. Li, C.-Z. Dong, J. Jiang, J.-G. Wang
Atomic structures and radiative properties of He-like ions in Debye plasmas
Plasma Sci. Technol. 12, 372-377 (2010)

C^{4+}	Trans. prob., Oscill. Strengths	Th
Mg^{10+}	Trans. prob., Oscill. Strengths	Th
Si^{12+}	Trans. prob., Oscill. Strengths	Th

576. M. Herrmann, V. Batteiger, S. Knünz, G. Saathoff, Th. Udem, T. W. Hänsch
Frequency metrology on single trapped ions in the weak binding limit: The $3s_{1/2}$-$3p_{3/2}$ transition in $^{24}Mg^{+}$
Phys. Rev. Lett. 102, 013006 (2009)

Mg^{+}	Trans. prob., Oscill. Strengths	Exp

577. A. Surzhykov, J. P. Santos, P. Amaro, P. Indelicato
Negative-continuum effects on the two-photon decay rates of hydrogenlike ions
Phys. Rev. A 80, 052511 (2009)

H	Trans. prob., Oscill. Strengths	Th
Xe^{53+}	Trans. prob., Oscill. Strengths	Th
U^{91+}	Trans. prob., Oscill. Strengths	Th

578. V. A. Dzuba, V. V. Flambaum, S. G. Porsev
Calculation of (P,T)-odd electric dipole moments for the diamagnetic atoms ^{129}Xe, ^{171}Yb, ^{199}Hg, ^{211}Rn, and ^{225}Ra
Phys. Rev. A 80, 032120 (2009)

Xe	Trans. prob., Oscill. Strengths	Th
Yb	Trans. prob., Oscill. Strengths	Th
Hg	Trans. prob., Oscill. Strengths	Th
Rn	Trans. prob., Oscill. Strengths	Th
Ra	Trans. prob., Oscill. Strengths	Th

579. P. Amaro, J. P. Santos, F. Parente, A. Surzhykov, P. Indelicato
Resonance effects on the two-photon emission from hydrogenic ions
Phys. Rev. A 79, 062504 (2009)

H	Trans. prob., Oscill. Strengths	Th
Zr^{39+}	Trans. prob., Oscill. Strengths	Th
U^{91+}	Trans. prob., Oscill. Strengths	Th

580. T. Bastin
Contribution à l'étude des ions N II, Ne IV et Ne V par les méthodes faisceau-lame et faisceau-lame-laser
Thesis, Univ. Li'ege, Belgium , (1996)

N^{+}	Trans. prob., Oscill. Strengths	Exp

581. W. Kaminski, J. Kesik, P. Warda
Influence of Noble Gas Additions on the Output Power of Krypton Ion Laser
Proc. SPIE 8433, 84331L (2012)

Kr^{+}	Energy Levels, Wavelengths	Exp

582. C. Suzuki, C. S. Harte, D. Kilbane, T. Kato, H. A. Sakaue, I. Murakami, D. Kato, K. Sato, N. Tamura, S. Sudo, M. Goto, R. D'Arcy, E. Sokell, G. O'Sullivan
Interpretation of EUV Spectra in the 20 nm Region from Tungsten Ions Observed in the LHD
AIP Conf. Proc. 1438, 197-200 (2012)

W^{7+-27+}	Energy Levels, Wavelengths	E/T

583. J. K. Lepson, P. Beiersdorfer, M. F. Gu, P. Desai, M. Bitter, L. Roquemore, M. L. Reinke
Laboratory Calibration of Density-Dependent Lines in the Extreme Ultraviolet Spectral Region
AIP Conf. Proc. 1438, 136-141 (2012)

Fe^{21+}	Energy Levels, Wavelengths	Exp

584. H. A. Sakaue, D. Kato, X.-B. Ding, I. Murakami, F. Koike, T. Nakano, N. Yamamoto, H. Ohashi, J. Yatsurugi, N. Nakamura
Spectroscopy of Highly Charged Tungsten Ions with Electron Beam Ion Traps
AIP Conf. Proc. 1438, 91-96 (2012)

$W^{19+-33+}$	Energy Levels, Wavelengths	Exp
$W^{23+-30+}$	Energy Levels, Wavelengths	Exp
W^{26+}	Energy Levels, Wavelengths	Exp
$W^{41+-45+}$	Energy Levels, Wavelengths	Exp

585. J. Reader, J. D. Gillaspy, D. Osin, Yu. Ralchenko
Magnetic-Dipole Transitions in Tungsten and Other Heavy Elements Observed with the NIST EBIT
AIP Conf. Proc. 1438, 86-90 (2012)

K Z= 72-74	Energy Levels, Wavelengths	E/T
Co Z= 72-74	Energy Levels, Wavelengths	E/T
Au^{52+}	Energy Levels, Wavelengths	E/T
Au^{60+}	Energy Levels, Wavelengths	E/T

586. S. B. Zhang, D. L. Yeager
A Complex Scaled Multi-Reference Configuration Interaction Method to Study Li and Li-like Cations (Be, B, C, N, O) Auger Resonances $1s2s^2\ ^2S$ and $1s(2s2p\ ^3P^\circ)\ ^2P^\circ$
J. Mol. Struct. 1023, 96-100 (2012)

Li Z= 3-8	Energy Levels, Wavelengths	Th

587. M. Lestinsky, N. R. Badnell, D. Bernhardt, D. Bing, M. Grieser, M. Hahn, J. Hoffmann, B. Jordon-Thaden, C. Krantz, O. Novotný, D. A. Orlov, R. Repnow, A. Shornikov, A. Müller, S. Schippers, A. Wolf, D. W. Savin
Electron-Ion Recombination of Mg^{6+} Forming Mg^{5+} and of Mg^{7+} Forming Mg^{6+}: Laboratory Measurements and Theoretical Calculations
Astrophys. J. 758, 40 (2012)

Mg^{6+-7+}	Energy Levels, Wavelengths	Exp

588. P. R. Young
O VI Recombination Lines in Ultraviolet and Visible Spectra of RR Telescopii
Astrophys. J. 749, 1 (2012)

O^{5+}	Energy Levels, Wavelengths	Exp

589. X.-Y. Shi, H. Huang, B. Jacobson, Y.-C. Chang, Q.-Z. Yin, C. Y. Ng
A High-Resolution Photoionization and Photoelectron Study of ^{58}Ni Using A Vacuum Ultraviolet Laser
Astrophys. J. 747, 20 (2012)

Ni	Energy Levels, Wavelengths	Exp

590. P. Beiersdorfer, F. Diaz, Y. Ishikawa
Theoretical Wavelengths of Fe XVI L-Shell Transitions and Comparison with Laboratory Measurements and Chandra Observations of Capella
Astrophys. J. 745, 167 (2012)

Fe^{15+}	Energy Levels, Wavelengths	E/T

591. G. Del Zanna, P. J. Storey, N. R. Badnell, H. E. Mason
Atomic Data for Astrophysics: Fe XII Soft X-ray Lines
Astron. Astrophys. 543, A139 (2012)

Fe^{11+}	Energy Levels, Wavelengths	Th

592. G. Del Zanna, P. J. Storey
Atomic Data for Astrophysics: Fe XIII Soft X-ray Lines
Astron. Astrophys. 543, A144 (2012)

Fe^{12+}	Energy Levels, Wavelengths	Th

593. S. S. Tayal
Breit-Pauli Oscillator Strengths and Electron Excitation Collision Strengths for Si VIII
Astron. Astrophys. 541, A61 (2012)

Si^{7+}	Energy Levels, Wavelengths	Th

594. G. Del Zanna, P. J. Storey, N. R. Badnell, H. E. Mason
Atomic Data for Astrophysics: Fe X Soft X-ray Lines
Astron. Astrophys. 541, A90 (2012)

Fe^{9+}	Energy Levels, Wavelengths	E/T

595. G. Del Zanna
Benchmarking Atomic Data for the CHIANTI Atomic Database: Coronal Lines Observed by Hinode EIS
Astron. Astrophys. 537, A38 (2012)

O^{4+-5+}	Energy Levels, Wavelengths	Exp
Na^{9+}	Energy Levels, Wavelengths	Exp
Mg^{5+-6+}	Energy Levels, Wavelengths	Exp
Mg^{9+}	Energy Levels, Wavelengths	Exp
Al^{8+}	Energy Levels, Wavelengths	Exp
Si^{6+-9+}	Energy Levels, Wavelengths	Exp
S^{9+-12+}	Energy Levels, Wavelengths	Exp
Ar^{10+}	Energy Levels, Wavelengths	Exp
Ar^{13+}	Energy Levels, Wavelengths	Exp
Ca$^{13+-14+}$	Energy Levels, Wavelengths	Exp

Cr^{7+}	Energy Levels, Wavelengths	Exp
Mn^{7+-8+}	Energy Levels, Wavelengths	Exp
Mn^{14+}	Energy Levels, Wavelengths	Exp
Fe^{6+-15+}	Energy Levels, Wavelengths	Exp
Ni^{9+-10+}	Energy Levels, Wavelengths	Exp
Ni^{12+}	Energy Levels, Wavelengths	Exp
Ni$^{14+-16+}$	Energy Levels, Wavelengths	Exp

596. B. O'Dwyer, G. Del Zanna, N. R. Badnell, H. E. Mason, P. J. Storey
Atomic Data for the X-ray Lines of Fe VIII and Fe IX
Astron. Astrophys. 537, A22 (2012)

Fe^{7+-8+}	Energy Levels, Wavelengths	E/T

597. C. E. Hudson, P. H. Norrington, C. A. Ramsbottom, M. P. Scott
Dirac R-Matrix Collision Strengths and Effective Collision Strengths for Transitions of Ni XVII
Astron. Astrophys. 537, A12 (2012)

Ni^{16+}	Energy Levels, Wavelengths	Th

598. A. Cingöz, D. C. Yost, T. K. Allison, A. Ruehl, M. E. Fermann, I. Hartl, J. Ye
Direct Frequency Comb Spectroscopy in the Extreme Ultraviolet
Nature 482, 68-71 (2012)

Ar	Energy Levels, Wavelengths	Exp

599. G. Nave
Wavelengths of Fe II Lines for Studies of Time Variation of the Fine-Structure Constant
Mon. Not. R. Astron. Soc. 420, 1570-1574 (2012)

Mg^{0+-1+}	Energy Levels, Wavelengths	Exp
Ti^{+}	Energy Levels, Wavelengths	Exp
Cr^{+}	Energy Levels, Wavelengths	Exp
Mn^{+}	Energy Levels, Wavelengths	Exp
Fe^{+}	Energy Levels, Wavelengths	Exp
Ni^{+}	Energy Levels, Wavelengths	Exp
Zn^{+}	Energy Levels, Wavelengths	Exp

600. Y. Zhang, P. Jiang, Y. Wang, Y. Zhou
Resonances in the Scattering of Low Energy Electrons from Magnesium
Phys. Lett. A 376, 963-966 (2012)

Mg^{-}	Energy Levels, Wavelengths	Th

601. C. J. Sansonetti, G. Nave, J. Reader, F. Kerber
Comprehensive Observations of the Ultraviolet Spectrum and Improved Energy Levels for Singly Ionized Chromium (Cr II)
Astrophys. J., Suppl. Ser. 202, 15 (2012)

Cr^{+}	Energy Levels, Wavelengths	Exp

602. A. M. Sossah, S. S. Tayal
Transition Probabilities and Collision Strengths for Electron-Impact Excitation of Cl III
Astrophys. J., Suppl. Ser. 202, 12 (2012)

Cl^{2+}	Energy Levels, Wavelengths	Th

603. P. Beiersdorfer, J. K. Lepson
Measurement of the Fe VIII–Fe XVI 3–3 Emission in the Extreme Ultraviolet and Comparison with CHIANTI
Astrophys. J., Suppl. Ser. 201, 28 (2012)

Fe^{7+-15+}	Energy Levels, Wavelengths	Exp

604. S. L. Redman, G. S. Ycas, R. Terrien, S. Mahadevan, L. W. Ramsey, C. F. Bender, S. N. Osterman, S. A. Diddams, F. Quinlan, J. E. Lawler, G. Nave
A High-Resolution Atlas of Uranium-Neon in the H Band
Astrophys. J., Suppl. Ser. 199, 2 (2012)

Ne	Energy Levels, Wavelengths	Exp
U^{0+-1+}	Energy Levels, Wavelengths	Exp

605. S. Bubin, L. Adamowicz
Explicitly Correlated Gaussian Calculations of the $^2P^\circ$ Rydberg Spectrum of the Lithium Atom
J. Chem. Phys. 136, 134305 (2012)

Li	Energy Levels, Wavelengths	Th

606. A. Krzykowski, P. Głowacki, A. Jarosz
Precise Measurements of the Hyperfine Structure of the Levels Belonging to the Terms $3d^5 4s\ ^5G$ and ^5P in Cr(I)
Acta Phys. Pol. A 122, 78-81 (2012)

Cr	Energy Levels, Wavelengths	Exp

607. S. B. Doma, F. N. El-Gammal
Atomic Properties of the Two-Electron System using Variational Monte Carlo Technique
Acta Phys. Pol. A 122, 42-48 (2012)

He Z= 1-10	Energy Levels, Wavelengths	Th

608. U. Hohm, A. J. Thakkar
New Relationships Connecting the Dipole Polarizability, Radius, and Second Ionization Potential for Atoms
J. Phys. Chem. A 116, 697-703 (2012)

He-No	Energy Levels, Wavelengths	E/T

609. L. Liang, W.-J. Gao, C. Zhou
Photoionization Cross Section of Ne-like Cu XX with J=1
J. Quant. Spectrosc. Radiat. Transfer 113, 2018-2022 (2012)

Cu^{19+}	Energy Levels, Wavelengths	Th

610. C.-C. Sang, L. Zhuo, B.-C. Gou, F. Wang
Theoretical Study on Decay Processes of the Core-Excited States in B II
J. Quant. Spectrosc. Radiat. Transfer 113, 1656-1661 (2012)

B^+	Energy Levels, Wavelengths	Th

611. M. Raineri, M. Gallardo, C. J. B. Pagan, A. G. Trigueiros, J. Reyna Almandos
Lifetimes and Transition Probabilities in Kr V
J. Quant. Spectrosc. Radiat. Transfer 113, 1612-1627 (2012)

Kr^{4+}	Energy Levels, Wavelengths	E/T

612. A. N. Ryabtsev, E. Ya. Kononov, R. R. Kildiyarova, W.-Ü. L. Tchang-Brillet, J.-F. Wyart
$4f^{13}5s^25p^6$-$4f^{13}5s^25p^56s$ Transitions in the W VIII Spectrum and Spectra of Isoelectronic Hafnium, Tantalum, and Rhenium Ions
Opt. Spectrosc. 113, 109-114 (2012)

Ho Z= 72-75	Energy Levels, Wavelengths	E/T

613. Yu. M. Smirnov
Electron-Impact Excitation of the $^3P^\circ$ and $^3D^\circ$ Levels of a Nickel Atom
Opt. Spectrosc. 112, 836-843 (2012)

Ni	Energy Levels, Wavelengths	Exp

614. A. Derevianko, V. A. Dzuba, V. V. Flambaum
Highly Charged Ions as a Basis of Optical Atomic Clockwork of Exceptional Accuracy
Phys. Rev. Lett. 109, 180801 (2012)

Os^{18+}	Energy Levels, Wavelengths	Th
Au^{21+}	Energy Levels, Wavelengths	Th
Bi^{25+}	Energy Levels, Wavelengths	Th
Ra^{31+}	Energy Levels, Wavelengths	Th
U^{34+}	Energy Levels, Wavelengths	Th

615. C. T. Chantler, M. N. Kinnane, J. D. Gillaspy, L. T. Hudson, A. T. Payne, L. F. Smale, A. Henins, J. M. Pomeroy, J. N. Tan, J. A. Kimpton, E. Takacs, K. Makonyi
Testing Three-Body Quantum Electrodynamics with Trapped Ti^{20+} Ions: Evidence for a Z-dependent Divergence Between Experiment and Calculation
Phys. Rev. Lett. 109, 153001 (2012)

Ti^{20+}	Energy Levels, Wavelengths	Exp

616. P. Amaro, S. Schlesser, M. Guerra, E.-O. Le Bigot, J.-M. Isac, P. Travers, J. P. Santos, C. I. Szabo, A. Gumberidze, P. Indelicato
Absolute Measurement of the Relativistic Magnetic Dipole Transition Energy in Heliumlike Argon
Phys. Rev. Lett. 109, 043005 (2012)

Ar^{16+}	Energy Levels, Wavelengths	Exp

617. J. Zatorski, N. S. Oreshkina, C. H. Keitel, Z. Harman
Nuclear Shape Effect on the g Factor of Hydrogenlike Ions
Phys. Rev. Lett. 108, 063005 (2012)

C^{5+}	Energy Levels, Wavelengths	Th
Si^{13+}	Energy Levels, Wavelengths	Th
Sr^{37+}	Energy Levels, Wavelengths	Th
Nd^{59+}	Energy Levels, Wavelengths	Th
Sm^{61+}	Energy Levels, Wavelengths	Th
U^{91+}	Energy Levels, Wavelengths	Th

618. Z. R. Zhang, X. L. Cheng, H. F. Li, Z. J. Liu, X. W. Sun
Calculation and Evaluation of Energy Levels and Radiative Rates for $2s^22p^6$-$2s2p^6np$ and $2s^22p^6$-$2s^22p^5nd$ ($4 \leq n \leq 20$) Transitions in Cu XX
At. Data Nucl. Data Tables 98, 894-909 (2012)

Cu^{19+}	Energy Levels, Wavelengths	Th

619. E. Landi, A. K. Bhatia
Atomic Data and Spectral Line Intensities for Ni XV
At. Data Nucl. Data Tables 98, 862-893 (2012)

Ni^{14+}	Energy Levels, Wavelengths	Th

620. K. Wang, J. Yan, M. Huang, C. Y. Li, J. L. Zeng, C. Y. Chen, Y. S. Wang, Y. M. Zou
Electron Impact Excitation Rate Coefficients for P-like Ni XIV
At. Data Nucl. Data Tables 98, 779-797 (2012)

Ni^{13+}	Energy Levels, Wavelengths	Th

621. A. Abou El-Maaref, M. A. M. Uosif, S. H. Allam, Th. M. El-Sherbini
Energy Levels, Oscillator Strengths and Transition Probabilities for Si-like P II, S III, Cl IV, Ar V and K VI
At. Data Nucl. Data Tables 98, 589-615 (2012)

Si Z= 15-19	Energy Levels, Wavelengths	Th

622. P. Bogdanovich, R. Kisielius
Theoretical Energy Level Spectra and Transition Data for $4p^6 4d$, $4p^6 4f$ and $4p^5 4d^2$ Configurations of W^{37+} Ion
At. Data Nucl. Data Tables 98, 557-565 (2012)

W^{37+}	Energy Levels, Wavelengths	Th

623. P. Rynkun, P. Jönsson, G. Gaigalas, C. Froese Fischer
Energies and E1, M1, E2, M2 Transition Rates for States of the $2s^2 2p$, $2s2p^2$, and $2p^3$ Configurations in Boron-like Ions Between N III and Zn XXVI
At. Data Nucl. Data Tables 98, 481-556 (2012)

B Z= 7-30	Energy Levels, Wavelengths	Th

624. G. Gaigalas, P. Rynkun, A. Alkauskas, Z. R. Rudzikas
The Energy Levels and Radiative Transition Probabilities for Electric Quadrupole and Magnetic Dipole Transitions Among the Levels of the Ground Configuration, $[Kr]4d^{10}4f^4$, of W^{24+}
At. Data Nucl. Data Tables 98, 391-436 (2012)

W^{24+}	Energy Levels, Wavelengths	Th

625. O. Nagy, F. El Sayed
Energies, Wavelengths, and Transition Probabilities for Ge-like Kr, Mo, Sn, and Xe Ions
At. Data Nucl. Data Tables 98, 373-390 (2012)

Kr^{4+}	Energy Levels, Wavelengths	Th
Mo^{10+}	Energy Levels, Wavelengths	Th
Sn^{18+}	Energy Levels, Wavelengths	Th
Xe^{22+}	Energy Levels, Wavelengths	Th

626. V. Jonauskas, G. Gaigalas, S. Kučas
Relativistic Calculations for M1-Type Transitions in $4d^N$ Configurations of W^{29+}–W^{37+} Ions
At. Data Nucl. Data Tables 98, 19-42 (2012)

$W^{29+-37+}$	Energy Levels, Wavelengths	Th

627. J. Singh, S. Aggarwal, A. K. Singh, M. Mohan
Breit-Pauli Atomic Structure Calculations for Sulphur-like Titanium
Can. J. Phys. 90, 833-847 (2012)

Ti^{6+}	Energy Levels, Wavelengths	Th

628. H. Watanabe, N. Nakamura, D. Kato, H. A. Sakaue, S. Ohtani
Lines from Highly Charged Tungsten Ions Observed in the Visible Region Between 340 and 400 nm
Can. J. Phys. 90, 497-501 (2012)

W^{26+}	Energy Levels, Wavelengths	Exp
$W^{26+-33+}$	Energy Levels, Wavelengths	Exp

629. Z. Fei, R. Zhao, Z. Shi, J. Xiao, M. Qiu, J. Grumer, M. Andersson, T. Brage, R. Hutton, Y. Zou
Experimental and Theoretical Study of the Ground-State M1 Transition in Ag-like Tungsten
Phys. Rev. A 86, 062501 (2012)

W^{27+}	Energy Levels, Wavelengths	E/T

630. K. M. Aggarwal, F. P. Keenan
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in Be-like Ti XIX
Phys. Scr. 86, 055301 (2012)

Ti^{18+}	Energy Levels, Wavelengths	Th

631. V. A. Dzuba, A. Derevianko, V. V. Flambaum
High-Precision Atomic Clocks with Highly Charged Ions: Nuclear-Spin-Zero f^{12}-Shell Ions
Phys. Rev. A 86, 054501 (2012)

Hf^{12+}	Energy Levels, Wavelengths	Th
W^{14+}	Energy Levels, Wavelengths	Th
Os^{18+}	Energy Levels, Wavelengths	Th
Pt^{20+}	Energy Levels, Wavelengths	Th
Hg^{22+}	Energy Levels, Wavelengths	Th
Pb^{24+}	Energy Levels, Wavelengths	Th
Po^{26+}	Energy Levels, Wavelengths	Th
Ra^{30+}	Energy Levels, Wavelengths	Th
Th^{32+}	Energy Levels, Wavelengths	Th
U^{34+}	Energy Levels, Wavelengths	Th

632. J. P. Marques, F. Parente, A. M. Costa, M. C. Martins, P. Indelicato, J. P. Santos
Decay of the $1s^2 2s3p\ ^3P_0$ Level in Be-like Ions
Phys. Rev. A 86, 052521 (2012)

Be Z= 5-12	Energy Levels, Wavelengths	Th
Be Z= 14-34 step 2	Energy Levels, Wavelengths	Th
Be Z= 46-56 step 2	Energy Levels, Wavelengths	Th
Be Z= 70-90 step 4	Energy Levels, Wavelengths	Th
Mo^{38+}	Energy Levels, Wavelengths	Th
Sm^{58+}	Energy Levels, Wavelengths	Th
U^{88+}	Energy Levels, Wavelengths	Th

633. V. A. Yerokhin, A. Surzhykov
Relativistic Configuration-Interaction Calculation of Energy Levels of Core-Excited States in Lithiumlike Ions: Argon through Krypton
Phys. Rev. A 86, 042507 (2012)

Li Z= 18-36	Energy Levels, Wavelengths	Th

634. K. M. Aggarwal, F. P. Keenan
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in He-like Kr XXXV
Phys. Scr. 86, 035302 (2012)

Kr^{34+}	Energy Levels, Wavelengths	Th

635. J.-G. Li, C. Nazé, M. Godefroid, St. Fritzsche, G. Gaigalas, P. Indelicato, P. Jönsson
Mass- and Field-Shift Isotope Parameters for the 2s-2p Resonance Doublet of Lithiumlike Ions
Phys. Rev. A 86, 022518 (2012)

Li Z= 4-55	Energy Levels, Wavelengths	Th
Nd^{57+}	Energy Levels, Wavelengths	Th
Yb^{67+}	Energy Levels, Wavelengths	Th
Hg^{77+}	Energy Levels, Wavelengths	Th
Bi^{80+}	Energy Levels, Wavelengths	Th
Fr^{84+}	Energy Levels, Wavelengths	Th
Th^{87+}	Energy Levels, Wavelengths	Th

636. J. C. Berengut, V. A. Dzuba, V. V. Flambaum, A. Ong
Highly Charged Ions with E1, M1, and E2 Transitions within Laser Range
Phys. Rev. A 86, 022517 (2012)

Ag Z= 60-61	Energy Levels, Wavelengths	Th
In Z= 57-90	Energy Levels, Wavelengths	Th
Sn Z= 58-60	Energy Levels, Wavelengths	Th
Sn Z= 60-63	Energy Levels, Wavelengths	Th
Sb Z= 59-61	Energy Levels, Wavelengths	Th
Sb Z= 61-64	Energy Levels, Wavelengths	Th
Xe Z= 62-65	Energy Levels, Wavelengths	Th
Tl Z= 90-100	Energy Levels, Wavelengths	Th
Pb Z= 95-100	Energy Levels, Wavelengths	Th
Bi Z= 96-99	Energy Levels, Wavelengths	Th
Bi Z= 96-100	Energy Levels, Wavelengths	Th
Po Z= 96-99	Energy Levels, Wavelengths	Th
At Z= 96-100	Energy Levels, Wavelengths	Th
Rn Z= 97-100	Energy Levels, Wavelengths	Th
Fr Z= 97-101	Energy Levels, Wavelengths	Th
Cs Z= 62-65	Energy Levels, Wavelengths	Th
I Z= 61-64	Energy Levels, Wavelengths	Th
Te Z= 61-64	Energy Levels, Wavelengths	Th
Cd Z= 60-61	Energy Levels, Wavelengths	Th
$Eu^{14+-15+}$	Energy Levels, Wavelengths	Th
W^{5+}	Energy Levels, Wavelengths	Th
W^{11+}	Energy Levels, Wavelengths	Th
W^{13+}	Energy Levels, Wavelengths	Th
W^{27+}	Energy Levels, Wavelengths	Th
W^{45+}	Energy Levels, Wavelengths	Th
W^{65+}	Energy Levels, Wavelengths	Th
W^{73+}	Energy Levels, Wavelengths	Th
U^{9+}	Energy Levels, Wavelengths	Th

637. G. P. Gupta, A. Z. Msezane
Fine-Structure Energy Levels, Radiative Rates and Lifetimes in Si-like Nickel
Phys. Scr. 86, 015303 (2012)

Ni^{14+}	Energy Levels, Wavelengths	Th

638. S. Bouazza
Full Hyperfine Structure Study of Singly Ionized Tantalum
Phys. Scr. 86, 015302 (2012)

Ta^{+}	Energy Levels, Wavelengths	E/T

639. P. Beiersdorfer, J. K. Lepson, M. B. Schneider, M. P. Bode
L-Shell X-ray Emission from Neonlike W^{64+}
Phys. Rev. A 86, 012509 (2012)

$W^{62+-66+}$	Energy Levels, Wavelengths	E/T

640. Z. Jiang, S. Kar, Y. K. Ho
Doubly Excited Non-Autoionizing $^{1,3}P^e$ and $^{1,3}D^o$ States of Two-Electron Highly Stripped Atoms
Phys. Scr. 85, 065304 (2012)

He Z= 7-12	Energy Levels, Wavelengths	Th

641. K. M. Aggarwal, F. P. Keenan
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in He-like Ti XXI, V XXII, Cr XXIII and Mn XXIV
Phys. Scr. 85, 065301 (2012)

Ti^{20+}	Energy Levels, Wavelengths	Th
V^{21+}	Energy Levels, Wavelengths	Th
Cr^{22+}	Energy Levels, Wavelengths	Th
Mn^{23+}	Energy Levels, Wavelengths	Th

642. S. G. Porsev, M. S. Safronova, M. G. Kozlov
Calculation of Quadrupole Polarizabilities with Combined Configuration Interaction and Coupled-Cluster Method
Phys. Rev. A 85, 062517 (2012)

Mg	Energy Levels, Wavelengths	Th
Si^{2+}	Energy Levels, Wavelengths	Th

643. R. D'Arcy, O. Morris, B. Li, H. Ohashi, S. Suda, H. Tanuma, S. Fujioka, H. Nishimura, K. Nishihara, C. Suzuki, T. Kato, F. Koike, G. O'Sullivan
EUV Spectra of Xe XVII–Xe XXI Produced in Charge-Exchange Collisions
Phys. Rev. A 85, 062513 (2012)

$Xe^{16+-17+}$	Energy Levels, Wavelengths	E/T
$Xe^{16+-20+}$	Energy Levels, Wavelengths	E/T
$Xe^{18+-20+}$	Energy Levels, Wavelengths	E/T

644. M. S. Safronova, S. G. Porsev, M. G. Kozlov, C. W. Clark
Polarizabilities of Si^{2+}: A Benchmark Test of Theory and Experiment
Phys. Rev. A 85, 052506 (2012)

Si^{2+}	Energy Levels, Wavelengths	Th

645. J. Preclíková, A. Waheed, D. Fregenal, Ø. Frette, B. Hamre, B. T. Hjertaker, E. Horsdal, I. Pilskog, M. Førre
Unidentified Transitions in One-Photon Intrashell Dynamics in Rydberg Atoms
Phys. Rev. A 85, 043416 (2012)

Li	Energy Levels, Wavelengths	Exp

646. C. Froese Fischer, G. Gaigalas
Multiconfiguration Dirac-Hartree-Fock Energy Levels and Transition Probabilities for W XXXVIII
Phys. Rev. A 85, 042501 (2012)

W^{37+}	Energy Levels, Wavelengths	Th

647. J.-C. Pain, F. Gilleron
Characterization of Anomalous Zeeman Patterns in Complex Atomic Spectra
Phys. Rev. A 85, 033409 (2012)

C^{4+}	Energy Levels, Wavelengths	Th
Fe^{6+}	Energy Levels, Wavelengths	Th

648. S. B. Zhang, D. L. Yeager
Complex-Scaled Multireference Configuration-Interaction Method to Study Be and Be-like cations' (B, C, N, O, Mg) Auger Resonances $1s2s^2 2p\ ^{1,3}P^\circ$
Phys. Rev. A 85, 032515 (2012)

Be Z= 4-8	Energy Levels, Wavelengths	Th
Mg^{8+}	Energy Levels, Wavelengths	Th

649. U. I. Safronova, A. S. Safronova
Dielectronic Recombination of Er-like Tungsten
Phys. Rev. A 85, 032507 (2012)

W^{5+}	Energy Levels, Wavelengths	Th

650. E. Andersson, P. Linusson, S. Fritzsche, L. Hedin, J. H. D. Eland, L. Karlsson, J.-E. Rubensson, R. Feifel
Formation of Kr^{3+} via Core-Valence Doubly Ionized Intermediate States
Phys. Rev. A 85, 032502 (2012)

Kr^{2+-3+}	Energy Levels, Wavelengths	Exp

651. K. M. Aggarwal, F. P. Keenan
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in He-like Cl XVI, K XVIII, Ca XIX and Sc XX
Phys. Scr. 85, 025306 (2012)

Cl^{15+}	Energy Levels, Wavelengths	Th
K^{17+}	Energy Levels, Wavelengths	Th
Ca^{18+}	Energy Levels, Wavelengths	Th
Sc^{19+}	Energy Levels, Wavelengths	Th

652. K. M. Aggarwal, F. P. Keenan
Energy Levels, Radiative Rates and Electron Impact Excitation Rates for Transitions in He-like Mg XI, Al XII, P XIV and S XV
Phys. Scr. 85, 025305 (2012)

Mg^{10+}	Energy Levels, Wavelengths	Th
Al^{11+}	Energy Levels, Wavelengths	Th
P^{13+}	Energy Levels, Wavelengths	Th
S^{14+}	Energy Levels, Wavelengths	Th

653. A. Kramida, C. M. Brown, U. Feldman, J. Reader
Extension and New Level Optimization of the Ne IV Spectrum
Phys. Scr. 85, 025303 (2012)

Ne^{2+-4+}	Energy Levels, Wavelengths	E/T
Ne^{3+}	Energy Levels, Wavelengths	E/T

654. V. Gedeon, S. Gedeon, V. Lazur, E. Nagy, O. Zatsarinny, K. Bartschat
Electron Scattering from Silicon
Phys. Rev. A 85, 022711 (2012)

Si	Energy Levels, Wavelengths	Th

655. P. Beiersdorfer, G. V. Brown, A. T. Graf, M. Bitter, K. W. Hill, R. L. Kelley, C. A. Kilbourne, M. A. Leutenegger, F. S. Porter
Rest-Wavelength Fiducials for the ITER Core Imaging X-ray Spectrometer
Rev. Sci. Instrum. 83, 10E111 (2012)

W^{64+}	Energy Levels, Wavelengths	Exp

656. Yu. B. Malykhanov, S. V. Evseev, M. V. Gorshunov
Calculation of Open p-Shell Atoms in the Algebraic Approach of the Hartree-Fock Method
J. Appl. Spectrosc. 79, 1-10 (2012)

B-F	Energy Levels, Wavelengths	Th
Al-Cl	Energy Levels, Wavelengths	Th
Ga-Br	Energy Levels, Wavelengths	Th
In-I	Energy Levels, Wavelengths	Th
Tl-At	Energy Levels, Wavelengths	Th

657. B. L. Deng, G. Jiang, L. Zhang, X. Wang, X. Z. Hua
Relativistic Configuration Interaction Calculations on Kα X-ray Satellites of Magnesium Ions
Eur. Phys. J. D 66, 146 (2012)

Mg^{2+-10+}	Energy Levels, Wavelengths	Th

658. V. Stancalie, V. F. Pais, A. Mihailescu, Contributors to the EFDA-TF-ITM
Fine-Structure Splitting Calculation in the Ar III Ion: Comparison of Perturbative (Breit-Pauli) and Non-Perturbative (MCDF-EAL) Predictions
Eur. Phys. J. D 66, 84 (2012)

Ar^{2+}	Energy Levels, Wavelengths	Th

659. B. Schabinger, S. Sturm, A. Wagner, J. Alonso, W. Quint, G. Werth, K. Blaum
Experimental g Factor of Hydrogenlike Silicon-28
Eur. Phys. J. D 66, 71 (2012)

Si^{13+}	Energy Levels, Wavelengths	Exp

660. J. K. Saha, T. K. Mukherjee, P. K. Mukherjee, B. Fricke
Effect of Strongly Coupled Plasma on the Doubly Excited States of Heliumlike Ions
Eur. Phys. J. D 66, 43 (2012)

C^{4+}	Energy Levels, Wavelengths	Th
Al^{11+}	Energy Levels, Wavelengths	Th
Si^{12+}	Energy Levels, Wavelengths	Th
P^{13+}	Energy Levels, Wavelengths	Th
S^{14+}	Energy Levels, Wavelengths	Th
Cl^{15+}	Energy Levels, Wavelengths	Th

661. K. E. Thylwe
On Relativistic Shifts of Negative-Ion Resonances
Eur. Phys. J. D 66, 7 (2012)

Xe^{-}	Energy Levels, Wavelengths	Th
Ce^{-}	Energy Levels, Wavelengths	Th

662. S.-Z. Liu, L.-Y. Xie, X.-B. Ding, C.-Z. Dong
The Effect of Relativity on the Structures and Transition Properties of Li-like Ions
Acta Phys. Sin. 61, 093106 (2012)

Li	Energy Levels, Wavelengths	Th
Be^{+}	Energy Levels, Wavelengths	Th
C^{3+}	Energy Levels, Wavelengths	Th
O^{5+}	Energy Levels, Wavelengths	Th
Ne^{7+}	Energy Levels, Wavelengths	Th
Ar^{15+}	Energy Levels, Wavelengths	Th
Fe^{23+}	Energy Levels, Wavelengths	Th
Mo^{39+}	Energy Levels, Wavelengths	Th
W^{71+}	Energy Levels, Wavelengths	Th
U^{89+}	Energy Levels, Wavelengths	Th

663. X.-M. Li, Y.-P. Ruan, Z.-P. Zhong
Theoretical Study of the Rydberg Series Energy Levels of $ns^2S_{1/2}$, $np^2P_{1/2,3/2}$, $nd^2D_{3/2,5/2}$ and $nf^2F_{5/2,7/2}$ for Alkali-Metal Li, Na, K, Rb, Cs and Fr
Acta Phys. Sin. 61-2, 023104 (2012)

Li	Energy Levels, Wavelengths	Th
Na	Energy Levels, Wavelengths	Th
K	Energy Levels, Wavelengths	Th
Rb	Energy Levels, Wavelengths	Th
Cs	Energy Levels, Wavelengths	Th
Fr	Energy Levels, Wavelengths	Th

664. Q. Gao, Z.-Q. Wu, C.-F. Zhang, Z.-H. Li, R.-K. Xu, X.-T. Zu
The Nonlocal Thermal Equilibrium Simulation of Z-Pinch Al Plasma Radiation
Acta Phys. Sin. 61-1, 015201 (2012)

$Al^{10+-12+}$	Energy Levels, Wavelengths	Th

665. E. V. Koryukina, V. I. Koryukin
A Theoretical Study of the Dynamic Stark Effect for a Ne^{+} Ion Under Laser Excitation
Russ. Phys. J. 55, 229-235 (2012)

Ne^{+}	Energy Levels, Wavelengths	Th

666. D. Osin, J. Reader, J. D. Gillaspy, Yu. Ralchenko
Extreme Ultraviolet Spectra of Highly Charged Xenon Observed with an Electron Beam Ion Trap
J. Phys. B 45, 245001 (2012)

Xe^{26+}	Energy Levels, Wavelengths	Exp
$Xe^{26+-43+}$	Energy Levels, Wavelengths	Exp
$Xe^{30+-41+}$	Energy Levels, Wavelengths	Exp
Xe^{43+}	Energy Levels, Wavelengths	Exp

667. T. Osawa, K. Kawajiri, N. Suzuki, T. Nagata, Y. Azuma, F. Koike
Photoion-Yield Study of the 3p-3d Giant Resonance Excitation Region of Isolated Cr, Mn and Fe Atoms
J. Phys. B 45, 225204 (2012)

Cr	Energy Levels, Wavelengths	Exp
Mn	Energy Levels, Wavelengths	Exp
Fe	Energy Levels, Wavelengths	Exp

668. D.-S. Kim, D.-H. Kwon
Photoionization of Be-like N^{3+} and Ne^{6+} Ions: Features of Be Isoelectronic Sequences of $Z \leq 10$
J. Phys. B 45, 185201 (2012)

N^{3+}	Energy Levels, Wavelengths	Th
Ne^{6+}	Energy Levels, Wavelengths	Th

669. U. I. Safronova, A. S. Safronova
Correlation and Relativistic Effects within the Trivalent Lu-like Sequence
J. Phys. B 45, 185002 (2012)

Lu Z= 74-100	Energy Levels, Wavelengths	Th

670. J.-Q. Li, Z. Zhao, M. Andersson, X.-M. Zhang, C.-Y. Chen
Theoretical Study for the Electron Affinities of Negative Ions with the MCDHF Method
J. Phys. B 45, 165004 (2012)

B^-	Energy Levels, Wavelengths	Th
C^-	Energy Levels, Wavelengths	Th
N^-	Energy Levels, Wavelengths	Th
O^-	Energy Levels, Wavelengths	Th
F^-	Energy Levels, Wavelengths	Th
Al^-	Energy Levels, Wavelengths	Th
Si^-	Energy Levels, Wavelengths	Th
P^-	Energy Levels, Wavelengths	Th
S^-	Energy Levels, Wavelengths	Th
Cl^-	Energy Levels, Wavelengths	Th
Ga^-	Energy Levels, Wavelengths	Th
Ge^-	Energy Levels, Wavelengths	Th
As^-	Energy Levels, Wavelengths	Th
Se^-	Energy Levels, Wavelengths	Th
Br^-	Energy Levels, Wavelengths	Th
In^-	Energy Levels, Wavelengths	Th
Sn^-	Energy Levels, Wavelengths	Th
Te^-	Energy Levels, Wavelengths	Th
I^-	Energy Levels, Wavelengths	Th
Tl^-	Energy Levels, Wavelengths	Th
Pb^-	Energy Levels, Wavelengths	Th
Po^-	Energy Levels, Wavelengths	Th
At^-	Energy Levels, Wavelengths	Th

671. M. Andersson, T. Lennartsson, H. Nilsson, C.-Y. Chen
The Anomalous Hyperfine Structure of Al II
J. Phys. B 45, 135001 (2012)

Al^+	Energy Levels, Wavelengths	E/T

672. D. Veza, C. J. Sansonetti, M. L. Salit, J. C. Travis
Wave Numbers and Pressure-Induced Shifts of Ar I Atomic Lines Measured by Fourier Transform Spectroscopy
J. Phys. B 45, 115001 (2012)

Ar	Energy Levels, Wavelengths	Exp

673. B. M. McLaughlin, C. P. Ballance
Photoionization Cross Section Calculations for the Halogen-like Ions Kr^+ and Xe^+
J. Phys. B 45, 085701 (2012)

Kr^+	Energy Levels, Wavelengths	Th
Xe^+	Energy Levels, Wavelengths	Th

674. U. I. Safronova, A. S. Safronova, P. Beiersdorfer
Excitation Energies, Radiative and Autoionization Rates, Dielectronic Satellite Lines, and Dielectronic Recombination Rates for Excited States of Yb-like W
J. Phys. B 45, 085001 (2012)

W^{4+}	Energy Levels, Wavelengths	Th
W^{4+-5+}	Energy Levels, Wavelengths	Th

675. J. D. Hey
On the Role of Atomic Metastability in the Production of Balmer Line Radiation from 'cold' Atomic Hydrogen, Deuterium and Hydrogenic Ion Impurities in Fusion Edge Plasmas
J. Phys. B 45, 065701 (2012)

H Z= 1-10	Energy Levels, Wavelengths	Th

676. S. Enzonga Yoca, P. Quinet, P. Palmeri, É. Biémont
Comparative Semi-Empirical and Ab Initio Atomic Structure Calculations in Yb-like Tungsten W^{4+}
J. Phys. B 45, 065001 (2012)

W^{4+}	Energy Levels, Wavelengths	Th

677. I. M. Savukov
CI-RMBPT Neon g-Factors
J. Phys. B 45, 045002 (2012)

Ne	Energy Levels, Wavelengths	Th
Na^{+}	Energy Levels, Wavelengths	Th

678. V. Fivet, M. A. Bautista, C. P. Ballance
Fine-Structure Photoionization Cross Sections of Fe II
J. Phys. B 45, 035201 (2012)

Fe^{+}	Energy Levels, Wavelengths	Th

679. X.-B. Ding, F. Koike, I. Murakami, D. Kato, H. A. Sakaue, C.-Z. Dong, N. Nakamura
M1 Transition Energies and Probabilities Between the Multiplets of the Ground State of Ag-like Ions with Z = 47–92
J. Phys. B 45, 035003 (2012)

Ag Z= 47-92	Energy Levels, Wavelengths	Th

680. P. Quinet
A Theoretical Survey of Atomic Structure and Forbidden Transitions in the $4p^k$ and $4d^k$ Ground Configurations of Tungsten Ions W^{29+} through W^{43+}
J. Phys. B 45, 025003 (2012)

$W^{29+-43+}$	Energy Levels, Wavelengths	Th

681. S. P. Zinchenko, I. G. Ivanov
Pulsed Hollow-Cathode Ion Lasers: Pumping and Lasing Parameters
Quantum Electron. 42, 518-523 (2012)

Cu^{+}	Energy Levels, Wavelengths	Exp
Zn^{+}	Energy Levels, Wavelengths	Exp
Ga^{+}	Energy Levels, Wavelengths	Exp
Kr^{+}	Energy Levels, Wavelengths	Exp
Cd^{+}	Energy Levels, Wavelengths	Exp
Hg^{+}	Energy Levels, Wavelengths	Exp
Tl^{+}	Energy Levels, Wavelengths	Exp

682. E. B. Saloman
Energy Levels and Observed Spectral Lines of Neutral and Singly Ionized Titanium, Ti I and Ti II
J. Phys. Chem. Ref. Data 41, 013101 (2012)

Ti^{0+-1+}	Energy Levels, Wavelengths	Exp

683. S. Aggarwal, J. Singh, A. K. S. Jha, M. Mohan
Photoionization Cross-Section of Chlorine-like Iron
J. Astrophys. Astron. 33, 291-301 (2012)

Fe^{9+}	Energy Levels, Wavelengths	Th

684. J.-Z. Fan, D.-H. Zhang, Z.-W. Chang, Y.-L. Shi, C.-Z. Dong
Energy-Crossing and Its Effect on Lifetime of the $4s^2 4p\ ^2P_{3/2}$ Level for Highly Charged Ga-like Ions
Chin. Phys. Lett. 29, 073102 (2012)

Ga Z= 68-79	Energy Levels, Wavelengths	Th
Ga Z= 81-95 step 2	Energy Levels, Wavelengths	Th

685. Z.-R. Yang, P. Yuan, Z.-Y. Song, Q.-M. Xu, Z.-H. Yang
Measurements of the Spectrum of Singly Ionized Argon Between 320 and 520 nm
Chin. Phys. Lett. 29, 013204 (2012)

Ar^{+}	Energy Levels, Wavelengths	Exp

686. D.-H. Zhang, Y.-L. Shi, J. Jiang, C.-Z. Dong, F. Koike
KLL Dielectronic Recombination Process of He-like to O-like Xenon Ions
Chin. Phys. B 21, 013402 (2012)

Xe$^{46+-52+}$	Energy Levels, Wavelengths	Th

687. Z.-R. Zhang, X.-L. Cheng, Z.-J. Liu, J.-H. Yang, H.-F. Li
Theoretical Study on $2s2p^6np$ Rydberg States of Cu^{19+} Ion
Chin. Phys. B 21, 013101 (2012)

Cu^{19+}	Energy Levels, Wavelengths	Th

688. Madhusmita Das
Transition Energies and Polarizabilities of Hydrogen like Ions in Plasma
Phys. Plasmas 19, 092707 (2012)

H	Energy Levels, Wavelengths	Th
C^{5+}	Energy Levels, Wavelengths	Th
Al^{12+}	Energy Levels, Wavelengths	Th
Ar^{17+}	Energy Levels, Wavelengths	Th

689. Z.-S. Jiang, S. Kar, Y. K. Ho
Energies and Transition Wavelengths for Li II, Be III, B IV, C V Embedded in Debye Plasmas
Phys. Plasmas 19, 033301 (2012)

He Z= 3-6	Energy Levels, Wavelengths	Th

690. A. S. Safronova, V. L. Kantsyrev, A. Y. Faenov, U. I. Safronova, P. Wiewior, N. Renard-Le Galloudec, A. A. Esaulov, M. E. Weller, A. Stafford, P. Wilcox, I. Shrestha, N. D. Ouart, V. Shlyaptseva, G. C. Osborne, O. Chalyy, Y. Paudel
Atomic Physics of Relativistic High Contrast Laser-Produced Plasmas in Experiments on Leopard Laser Facility at UNR
High En. Dens. Phys. 8, 190-195 (2012)

F^{6+-8+}	Energy Levels, Wavelengths	Exp
Mg^{9+-11+}	Energy Levels, Wavelengths	Exp
Fe$^{16+-23+}$	Energy Levels, Wavelengths	Exp
Cu$^{19+-22+}$	Energy Levels, Wavelengths	Exp

691. C. A. Iglesias, V. Sonnad
Partially Resolved Transition Array Model for Atomic Spectra
High En. Dens. Phys. 8, 154-160 (2012)

Ni^{4+-5+}	Energy Levels, Wavelengths	Th
Cd^{24+}	Energy Levels, Wavelengths	Th
Tm^{41+}	Energy Levels, Wavelengths	Th

692. Z.-w. Wang, Y. Guo
Theoretical Study on the $1s^2$2s-$1s^2$np Transitions for Ni^{25+} Ion
Frontiers Phys. 7, 252-255 (2012)

Ni^{25+}	Energy Levels, Wavelengths	Th

693. S. S. Tayal, O. Zatsarinny
Effective Collision Strengths for Electron-Impact Excitation of Fe VIII
Astrophys. J. 743, 206 (2011)

Fe^{7+}	Energy Levels, Wavelengths	Th

694. G. Del Zanna
Benchmarking Atomic Data for Astrophysics: Fe XVII X-ray Lines
Astron. Astrophys. 536, A59 (2011)

Fe^{16+}	Energy Levels, Wavelengths	Exp

695. G. Del Zanna, V. Andretta
The EUV Spectrum of the Sun: SOHO CDS NIS Irradiances from 1998 Until 2010
Astron. Astrophys. 528, A139 (2011)

He	Energy Levels, Wavelengths	Exp
C^{2+}	Energy Levels, Wavelengths	Exp
N^{2+}	Energy Levels, Wavelengths	Exp
O^{+-4+}	Energy Levels, Wavelengths	Exp
Ne^{3+-5+}	Energy Levels, Wavelengths	Exp
Mg^{6+}	Energy Levels, Wavelengths	Exp
Mg^{8+-9+}	Energy Levels, Wavelengths	Exp
Al^{9+-10+}	Energy Levels, Wavelengths	Exp
Si^{7+}	Energy Levels, Wavelengths	Exp
Si$^{10+-11+}$	Energy Levels, Wavelengths	Exp
Ar^{6+}	Energy Levels, Wavelengths	Exp
Ca^{9+}	Energy Levels, Wavelengths	Exp
Fe$^{10+-13+}$	Energy Levels, Wavelengths	Exp
Fe^{15+}	Energy Levels, Wavelengths	Exp

696. C. Jordan
The Emission Line Near 1319 Å in Solar and Stellar Spectra
Mon. Not. R. Astron. Soc. 414, 634-641 (2011)

Si^{+}	Energy Levels, Wavelengths	Exp
P^{+}	Energy Levels, Wavelengths	Exp
S	Energy Levels, Wavelengths	Exp

697. I. R. Wasson, C. A. Ramsbottom, M. P. Scott
Electron-Impact Excitation of Cr II: A Theoretical Calculation of Effective Collision Strengths for Optically Allowed Transitions
Astrophys. J., Suppl. Ser. 196, 24 (2011)

Cr^{+}	Energy Levels, Wavelengths	Th

698. M. Patanen, S. Aksela, S. Urpelainen, T. Kantia, S. Heinäsmäki, H. Aksela
Free Atom 4f Photoelectron Spectra of Au, Pb, and Bi
J. Electron Spectrosc. Relat. Phenom. 183, 59-63 (2011)

Au	Energy Levels, Wavelengths	Exp
Pb	Energy Levels, Wavelengths	Exp
Bi	Energy Levels, Wavelengths	Exp

699. Z. Geng, K. Yao, Y. Zou
Spectra Simulation of the Argon Plasma
Phys. Scr. T144, 014029 (2011)

Ar^{15+}	Energy Levels, Wavelengths	Exp
Ar^{16+}	Energy Levels, Wavelengths	Exp

700. R. D'Arcy, O. Morris, H. Ohashi, S. Suda, H. Tanuma, S. Fujioka, H. Nishimura, K. Nishihara, C. Suzuki, T. Kato, F. Koike, G. O'Sullivan
Configuration Interaction in Charge Exchange Spectra of Tin and Xenon
Phys. Scr. T144, 014026 (2011)

Sn$^{14+-17+}$	Energy Levels, Wavelengths	Exp
Xe$^{16+-20+}$	Energy Levels, Wavelengths	Exp

701. J. P. Santos, M. C. Martins, A. M. Costa, J. P. Marques, P. Indelicato, F. Parente
Production and Decay of Chlorine Ion Excited Species in an Electron Cyclotron Resonance Ion Source Plasma
Phys. Scr. T144, 014005 (2011)

Cl$^{10+-15+}$	Energy Levels, Wavelengths	E/T
Cl$^{13+-15+}$	Energy Levels, Wavelengths	E/T

702. S. Bubin, L. Adamowicz
Accurate Variational Calculations of the Ground ^{2}P$^\circ$($1s^2 2s^2 2p$) and Excited ^{2}S($1s^2 2s 2p^2$) and ^{2}P$^\circ$($1s^2 2s^2 3p$) States of Singly Ionized Carbon Atom
J. Chem. Phys. 135, 214104 (2011)

C$^+$	Energy Levels, Wavelengths	Th

703. K. R. Karim
Calculation of X-ray and Auger Transition Rates, Lifetimes, X-ray Wavelengths, and Fluorescence Yields of Variously Ionized Silicon Atoms
J. Quant. Spectrosc. Radiat. Transfer 112, 1026-1034 (2011)

Si^{5+-11+}	Energy Levels, Wavelengths	Th

704. V. Mäckel, R. Klawitter, G. Brenner, J. R. Crespo López Urrutia, J. Ullrich
Laser Spectroscopy on Forbidden Transitions in Trapped Highly Charged Ar^{13+} Ions
Phys. Rev. Lett. 108, 079902 (2011)

Ar^{13+}	Energy Levels, Wavelengths	Exp

705. P. Jönsson, P. Rynkun, G. Gaigalas
Energies, E1, M1, and E2 Transition Rates, Hyperfine Structures, and Landé g_J Factors for States of the $2s^2 2p^2$, $2s2p^3$, and $2p^4$ Configurations in Carbon-like Ions Between F IV and Ni XXIII
At. Data Nucl. Data Tables 97, 648-691 (2011)

C Z= 9-17	Energy Levels, Wavelengths	E/T
C Z= 9-28	Energy Levels, Wavelengths	E/T
C Z= 19-28	Energy Levels, Wavelengths	E/T

F^{3+}	Energy Levels, Wavelengths	E/T
Ne^{4+}	Energy Levels, Wavelengths	E/T
Na^{5+}	Energy Levels, Wavelengths	E/T
Mg^{6+}	Energy Levels, Wavelengths	E/T
Al^{7+}	Energy Levels, Wavelengths	E/T
Si^{8+}	Energy Levels, Wavelengths	E/T
P^{9+}	Energy Levels, Wavelengths	E/T
S^{10+}	Energy Levels, Wavelengths	E/T
Cl^{11+}	Energy Levels, Wavelengths	E/T
K^{13+}	Energy Levels, Wavelengths	E/T
Ca^{14+}	Energy Levels, Wavelengths	E/T
Sc^{15+}	Energy Levels, Wavelengths	E/T
Ti^{16+}	Energy Levels, Wavelengths	E/T
V^{7+}	Energy Levels, Wavelengths	E/T
Cr^{18+}	Energy Levels, Wavelengths	E/T
Mn^{19+}	Energy Levels, Wavelengths	E/T
Fe^{20+}	Energy Levels, Wavelengths	E/T
Co^{21+}	Energy Levels, Wavelengths	E/T
Ni^{22+}	Energy Levels, Wavelengths	E/T

706. S. N. Nahar
Oscillator Strengths and Transition Probabilities for Allowed and Forbidden Transitions in Fe XIX
At. Data Nucl. Data Tables 97, 403-425 (2011)

Fe^{18+}	Energy Levels, Wavelengths	Th

707. K. M. Aggarwal, F. P. Keenan, K. D. Lawson
Electron Impact Excitation of Kr XXVIII
At. Data Nucl. Data Tables 97, 225-344 (2011)

Kr^{27+}	Energy Levels, Wavelengths	Th

708. J. Singh, S. Aggarwal, A. K. S. Jha, A. K. Singh, A. Mohan
Photoionization of Al-like Si Using the R-Matrix Method
Can. J. Phys. 89, 1119-1126 (2011)

Si^{+-2+}	Energy Levels, Wavelengths	Th

709. A. Riyaz, K. Rahimullah, A. Tauheed
The Observed and Predicted Spectrum of Neutral Chromium: Cr I
Indian J. Phys. 85, 1781-1801 (2011)

Cr	Energy Levels, Wavelengths	E/T

710. R. Kadrekar, L. Natarajan
Radiative One- and Two-Electron Transitions into the Empty K Shell of He-like Ions
Phys. Rev. A 84, 062506 (2011)

He Z= 4-10	Energy Levels, Wavelengths	Th
He Z= 12-14	Energy Levels, Wavelengths	Th
He Z= 18-26 step 2	Energy Levels, Wavelengths	Th

711. N. M. R. Armstrong, S. D. Rosner, R. A. Holt
Measurements of Hyperfine Structure in ^{51}V II
Phys. Scr. 84, 055301 (2011)

V^{+}	Energy Levels, Wavelengths	Exp

712. J. C. Berengut, V. A. Dzuba, V. V. Flambaum
Transitions in Zr, Hf, Ta, W, Re, Hg, Ac, and U Ions with High Sensitivity to Variation of the Fine-Structure Constant
Phys. Rev. A 84, 054501 (2011)

Zr^{2+}	Energy Levels, Wavelengths	Th
Hf^{2+}	Energy Levels, Wavelengths	Th
Ta^{4+}	Energy Levels, Wavelengths	Th
W^{6+}	Energy Levels, Wavelengths	Th
Re^{6+}	Energy Levels, Wavelengths	Th
Hg^{2+-3+}	Energy Levels, Wavelengths	Th
Hg^{3+}	Energy Levels, Wavelengths	Th
Ac^{+-2+}	Energy Levels, Wavelengths	Th
U^{5+}	Energy Levels, Wavelengths	Th

713. V. Jonauskas, S. Kučas, R. Karazija
Auger Decay of 3p-Ionized Krypton
Phys. Rev. A 84, 053415 (2011)

Kr^{+-4+}	Energy Levels, Wavelengths	E/T

714. J. C. Berengut
Isotope Shifts and Relativistic Shifts of Cr II for the Study of α Variation in Quasar Absorption Spectra
Phys. Rev. A 84, 052520 (2011)

Cr^{+}	Energy Levels, Wavelengths	Th

715. M. Puchalski, D. Kędziera, K. Pachucki
Lithium Electric Dipole Polarizability
Phys. Rev. A 85, 019910 (2011)

Li	Energy Levels, Wavelengths	Th

716. M. Das, R. K. Chaudhuri, S. Chattopadhyay, U. S. Mahapatra
Fock-Space Multireference Coupled-Cluster Calculations of the Hyperfine Structure of Isoelectronic $^{33}S^{-}$ and $^{35,37}Cl$
Phys. Rev. A 84, 042512 (2011)

$^{33}S^{-}$	Energy Levels, Wavelengths	Th
S^{-}	Energy Levels, Wavelengths	Th
$^{35}Cl^{-}$	Energy Levels, Wavelengths	Th
Cl^{-}	Energy Levels, Wavelengths	Th
Cl	Energy Levels, Wavelengths	Th

717. F. Hu, J.-M. Yang, C.-K. Wang, L.-F. Jing, S.-B. Chen, G. Jiang, H. Liu, L.-H. Hao
Multiconfiguration Dirac-Fock Calculations on Multi-Valence-Electron Systems: Benchmarks on Ga-like Ions
Phys. Rev. A 84, 042506 (2011)

Ga Z= 33-41	Energy Levels, Wavelengths	Th
Ga Z= 70-92	Energy Levels, Wavelengths	Th

718. Z.-W. Wu, J. Jiang, C.-Z. Dong
Influence of Breit Interaction on the Polarization of Radiation Following Inner-Shell Electron-Impact Excitation of Highly Charged Berylliumlike Ions
Phys. Rev. A 84, 032713 (2011)

Mo^{38+}	Energy Levels, Wavelengths	Th
Nd^{56+}	Energy Levels, Wavelengths	Th
Bi^{79+}	Energy Levels, Wavelengths	Th

719. S. N. Nahar, A. K. Pradhan, G.-X. Chen, W. Eissner
Highly Excited Core Resonances in Photoionization of Fe XVII: Implications for Plasma Opacities
Phys. Rev. A 83, 053417 (2011)

Fe^{16+}	Energy Levels, Wavelengths	Th

720. K. L. Sharkey, S. Bubin, L. Adamowicz
Lower Rydberg ^{2}D States of the Lithium Atom: Finite-Nuclear-Mass Calculations with Explicitly Correlated Gaussian Functions
Phys. Rev. A 83, 012506 (2011)

Li	Energy Levels, Wavelengths	Th

721. I. I. Guseinov, M. Erturk, E. Sahn
Use of Combined Hartree-Fock-Roothaan Theory in Evaluation of Lowest States of K [Ar]4s^{0}3d^1 and Cr$^+$ [Ar]4s^{0}3d^5 Isoelectronic Series Over Noninteger n-Slater Type Orbitals
Pramana 76, 109-117 (2011)

K Z= 19-30	Energy Levels, Wavelengths	Th
V Z= 24-30	Energy Levels, Wavelengths	Th

722. X. Wang, G. Jiang, L. H. Hao, L. Zhang, B. Deng
Systematic Multi-Configuration Dirac-Fock Calculations of the Kα and Kβ X-ray Spectra of Silicon Ions
Eur. Phys. J. D 65, 505-508 (2011)

Si^{4+-12+}	Energy Levels, Wavelengths	Th

723. T. Feldker, J. Schütz, H. John, G. Birkl
Magneto-Optical Trapping of Bosonic and Fermionic Neon Isotopes and Their Mixtures: Isotope Shift of the ^{3}P$_2 \leftrightarrow {}^3$D$_3$ Transition and Hyperfine Constants of the ^{3}D$_3$ State of ^{21}Ne
Eur. Phys. J. D 65, 257-262 (2011)

Ne	Energy Levels, Wavelengths	Exp

724. F. Hu, J.-M. Yang, C.-K. Wang, J.-Y. Zhang, G. Jiang, Z.-H. Zhu
Influence of Electron Correlation on Au Ions
Acta Phys. Sin. 60-10, 103104 (2011)

Au$^{48+-50+}$	Energy Levels, Wavelengths	Th
Au^{66+}	Energy Levels, Wavelengths	Th
Au^{67+}	Energy Levels, Wavelengths	Th
Au^{68+}	Energy Levels, Wavelengths	Th
Au^{74+}	Energy Levels, Wavelengths	Th
Au^{75+}	Energy Levels, Wavelengths	Th
Au^{76+}	Energy Levels, Wavelengths	Th

725. C.-P. Sun, G.-L. Wang, X.-X. Zhou
Theoretical Calculation of Photoionization of F^{3+} and Ne^{4+} Ions
Acta Phys. Sin. 60, 053202 (2011)

F^{3+}	Energy Levels, Wavelengths	E/T
Ne^{4+}	Energy Levels, Wavelengths	E/T

726. M. A. Bari, M. Salahuddin, B. Duan, M. H. Nasim, S. A. Hussain
Calculation of Energy Levels, Transition Rates, Oscillator Strengths and Lifetimes in Ne-like Au
J. Phys. B 44, 225004 (2011)

Au^{69+}	Energy Levels, Wavelengths	Th

727. N. Miyauchi, J. Adachi, A. Yagishita, T. Sako, F. Koike, T. Sato, A. Iwasaki, T. Okino, K. Yamanouchi, K. Midorikawa, K. Yamakawa, F. Kannari, H. Nakano, M. Nagasono, K. Tono, M. Yabashi, T. Ishikawa, T. Togashi, H. Ohashi, H. Kimura, Y. Senba
Three-Photon Double Ionization of Ar Studied by Photoelectron Spectroscopy Using an Extreme Ultraviolet Free-Electron Laser: Manifestation of Resonance States of an Intermediate Ar^+ Ion
J. Phys. B 44, 071001 (2011)

Ar^+	Energy Levels, Wavelengths	Th

728. J. M. Bizau, C. Blancard, M. Coreno, D. Cubaynes, C. Dehon, N. El Hassan, F. Folkmann, M. F. Gharaibeh, A. Giuliani, J. Lemaire, A. R. Milosavljević, C. Nicolas, R. Thissen
Photoionization Study of Kr^+ and Xe^+ Ions with the Combined Use of a Merged-Beam Set-up and an Ion Trap
J. Phys. B 44, 055205 (2011)

Kr^+	Energy Levels, Wavelengths	Exp
Xe^+	Energy Levels, Wavelengths	Exp

729. I. D. Petrov, V. L. Sukhorukov, U. Hollenstein, L. J. Kaufmann, F. Merkt, H. Hotop
Autoionization Dynamics of Even Ar ($3p^5_{1/2}np'$, nf') Resonances: Comparison of Experiment and Theory
J. Phys. B 44, 025004 (2011)

Ar	Energy Levels, Wavelengths	Exp

730. S. Civiš, I. Matulková, J. Cihelka, P. Kubelík, K. Kawaguchi, V. E. Chernov
Time-Resolved FTIR Emission Spectroscopy of Cu in the 1800–3800 cm^{-1} Region: Transitions Involving f and g States and Oscillator Strengths
J. Phys. B 44, 025002 (2011)

Cu	Energy Levels, Wavelengths	Exp

731. L. Di, J.-R. Shi, S.-J. Wang, Q.-L. Dong, J. Zhao, Y.-T. Li, J. Fu, F.-D. Wang, Y.-J. Shi, B.-N. Wan, G. Zhao, J. Zhang
Emission Lines of Boron, Carbon, Oxygen and Iron in Tokamak Plasma
Chin. Phys. Lett. 28, 075201 (2011)

B^{4+}	Energy Levels, Wavelengths	Exp
C^{5+}	Energy Levels, Wavelengths	Exp
O^{7+}	Energy Levels, Wavelengths	Exp
$Fe^{17+-22+}$	Energy Levels, Wavelengths	Exp

732. L.-M. Ren, Y.-Y. Wang, D.-D. Li, Z.-S. Yuan, L.-F. Zhu
Inner-Shell Excitations of 2p Electrons of Argon Investigated by Fast Electron Impact with High Resolution
Chin. Phys. Lett. 28, 053401 (2011)

Ar	Energy Levels, Wavelengths	E/T

733. J. Friebe, M. Riedmann, T. Wübbena, A. Pape, H. Kelkar, W. Ertmer, O. Terra, U. Sterr, S. Weyers, G. Grosche, H. Schnatz, E. M. Rasel
Remote Frequency Measurement of the $^1S_0 \rightarrow {}^3P_1$ Transition in Laser-Cooled ^{24}Mg
New J. Phys. 13, 125010 (2011)

Mg	Energy Levels, Wavelengths	Exp

734. P. Lablanquie, S.-M. Huttula, M. Huttula, L. Andric, J. Palaudoux, J. H. D. Eland, Y. Hikosaka, E. Shigemasa, K. Ito, F. Penent
Multi-Electron Spectroscopy: Auger Decays of the Argon 2s Hole
Phys. Chem. Chem. Phys 13, 18355-18364 (2011)

Ar^{+-2+}	Energy Levels, Wavelengths	Exp

735. J. Colgan, J. Abdallah Jr., A. Ya. Faenov, T. A. Pikuz, I. Yu. Skobelev, Y. Fukuda, Y. Hayashi, A. Pirozhkov, K. Kawase, T. Shimomura, H. Kiriyama, Y. Kato, S. V. Bulanov, M. Kando
Observation and Modeling of High Resolution Spectral Features of the Inner-Shell X-ray Emission Produced by 10^{-10} Contrast Femtosecond-Pulse Laser Irradiation of Argon Clusters
High En. Dens. Phys. 7, 77-83 (2011)

Ar^{9+-17+}	Energy Levels, Wavelengths	Exp

736. C. Beilmann
Über die Stärke mehrelektronischer Resonanzen bei der Photorekombination und -ionisation
Thesis, Univ. Heidelberg, Germany , (2011)

Fe^{15+}	Energy Levels, Wavelengths	E/T

737. P. Bogdanovich, V. Jonauskas, R. Karpuškienė, O. Rancova
Theoretical Investigation of X-ray Radiation of 4-4 Transitions in Highly Charged Tungsten Ions
Nucl. Instrum. Methods Phys. Res. A 619, 15-17 (2010)

W^{29+}	Energy Levels, Wavelengths	Th
W^{36+}	Energy Levels, Wavelengths	Th

738. M. C. Simon, J. R. Crespo López-Urrutia, C. Beilmann, M. Schwarz, Z. Harman, S. W. Epp, B. L. Schmitt, T. M. Baumann, E. Behar, S. Bernitt, R. Follath, R. Ginzel, C. H. Keitel, R. Klawitter, K. Kubiček, V. Mäckel, P. H. Mokler, G. Reichardt, O. Schwarzkopf, J. Ullrich
Resonant and Near-Threshold Photoionization Cross Sections of Fe^{14+}
Phys. Rev. Lett. 105, 183001 (2010)

Fe^{14+}	Energy Levels, Wavelengths	Exp

739. R. K. Gangwar, L. Sharma, R. Srivastava, A. D. Stauffer
Electron-Impact Excitation of Krypton: Cross Sections of Interest in Plasma Modeling
Phys. Rev. A 82, 032710 (2010)

Kr	Energy Levels, Wavelengths	Th

740. X.-L. Zhang, C. Cheng, X. Gao, J.-M. Li
Theoretical Study of Interesting Fine-Structure Splittings Based on a Scenario for Precise Calculations
Chin. Phys. Lett. 27, 033101 (2010)

C^{2+}	Energy Levels, Wavelengths	Th
Si^{2+}	Energy Levels, Wavelengths	Th

741. P. R. Young, T. Watanabe, H. Hara, J. T. Mariska
High-Precision Density Measurements in the Solar Corona
Astron. Astrophys. 495, 587-606 (2009)

Fe$^{11+-12+}$	Energy Levels, Wavelengths	Exp

742. Z.-Y. Zhou, S.-I Chu
Time-Dependent Localized Hartree-Fock Density-Functional Linear Response Approach for Photoionization of Atomic Excited States
Phys. Rev. A 79, 053412 (2009)

Ne	Energy Levels, Wavelengths	Th

743. J.-Z. Fan
Relativistic Configuration Interaction Calculations on the Kα X-ray Satellites of Chromium
Phys. Scr. 79, 025304 (2009)

Cr$^{14+-22+}$	Energy Levels, Wavelengths	Th

744. A. N. Sil, J. Anton, S. Fritzsche, P. K. Mukherjee, B. Fricke
Spectra of Heliumlike Carbon, Aluminium and Argon Under Strongly Coupled Plasma
Eur. Phys. J. D 55, 645-652 (2009)

C^{4+}	Energy Levels, Wavelengths	Th
Al^{11+}	Energy Levels, Wavelengths	Th
Ar^{16+}	Energy Levels, Wavelengths	Th

745. N.-X. Yang, C.-Z. Dong, J. Jiang
Theoretical Study on Inner Shell Electron Impact Excitation of Lithium
Chin. Phys. Lett. 26, 063401 (2009)

Li	Energy Levels, Wavelengths	Th

746. K. Blaum, W. Geithner, J. Lassen, P. Lievens, K. Marinova, R. Neugart
Nuclear Moments and Charge Radii of Argon Isotopes Between the Neutron-Shell Closures N=20 and N=28
Nucl. Phys. A799, 30-45 (2008)

Ar	Energy Levels, Wavelengths	Exp

747. C. M. Brown, U. Feldman, J. F. Seely, C. M. Korendyke, H. Hara
Wavelengths and Intensities of Spectral Lines in the 171–211 and 245–291 Å Ranges from Five Solar Regions Recorded by the Extreme-Ultraviolet Imaging Spectrometer (EIS) on Hinode
Astrophys. J., Suppl. Ser. 176, 511-535 (2008)

Fe^{6+}	Energy Levels, Wavelengths	Exp
Fe^{16+}	Energy Levels, Wavelengths	Exp

748. K. Franz, T. H. Hoffmann, J. Bömmels, A. Gopalan, G. Sauter, W. Meyer, M. Allan, M.-W. Ruf, H. Hotop
Low-Lying Resonances in Electron-Argon Scattering: Measurements at 5-mev Resolution and Comparison with Theory
Phys. Rev. A 78, 012712 (2008)

Ar^{-}	Energy Levels, Wavelengths	Exp

749. I. A. Misurkin, S. V. Titov
Calculations of the Energies of Resonances for Atoms and Ions with Two and Three Electrons by the Stabilization Method
Russ. J. Phys. Chem. A 81, 204-209 (2007)

H^{-}	Energy Levels, Wavelengths	Th
He^{-}	Energy Levels, Wavelengths	Th
He	Energy Levels, Wavelengths	Th
Li	Energy Levels, Wavelengths	Th
Li^{+}	Energy Levels, Wavelengths	Th

750. P. Bogdanovich, R. Karpuškienė, O. Rancova
Influence of the Two-Electron Transitions on the Radiative Lifetimes of Excited Levels in the Boron Isoelectronic Sequence
Phys. Scr. 75, 669-675 (2007)

B Z= 7-45	Energy Levels, Wavelengths	Th

751. L. Matsuoka, S. Hasegawa
Two-Color Resonance Ionization Spectroscopy of Highly Excited Titanium Atoms
J. Opt. Soc. Am. B 24, 2562-2579 (2007)

Ti	Energy Levels, Wavelengths	Exp

752. M. A. Bautista, H. Hartman, T. R. Gull, N. Smith, K. Lodders
[Ti II] and [Ni II] Emission from the Strontium Filament of η Carinae
Mon. Not. R. Astron. Soc. 370, 1991-2003 (2006)

Ti^{+}	Energy Levels, Wavelengths	Exp
Ni^{+}	Energy Levels, Wavelengths	Exp

753. D.-H. Zhang, C.-Z. Dong, F. Koike
Theoretical Investigation of Decay Process in a Doubly Excited $2s^2\ ^1S_0$ State of He-like Ions
Chin. Phys. Lett. 23, 2059-2062 (2006)

C^{4+}	Energy Levels, Wavelengths	Th
Ar^{16+}	Energy Levels, Wavelengths	Th
Fe^{24+}	Energy Levels, Wavelengths	Th
Kr^{34+}	Energy Levels, Wavelengths	Th
Pd^{44+}	Energy Levels, Wavelengths	Th
Ba^{54+}	Energy Levels, Wavelengths	Th
Dy^{64+}	Energy Levels, Wavelengths	Th
Os^{74+}	Energy Levels, Wavelengths	Th
Pb^{80+}	Energy Levels, Wavelengths	Th
Rn^{84+}	Energy Levels, Wavelengths	Th
U^{90+}	Energy Levels, Wavelengths	Th

754. H. Hartman, P. Schef, P. Lundin, A. Ellmann, S. Johansson, H. Lundberg, S. Mannervik, L.-O. Norlin, D. Rostohar, P. Royen
The FERRUM Project: Experimentally Determined Metastable Lifetimes and Transition Probabilities for Forbidden [Ti II] Lines Observed in η Carinae
Mon. Not. R. Astron. Soc. 361, 206-210 (2005)

Ti^{+}	Energy Levels, Wavelengths	Exp

755. H. Hartman, T. Gull, S. Johansson, N. Smith, HST Eta Carinae Treasury Project Team
Identification of Emission Lines in the Low-Ionization Strontium Filament Near Eta Carinae
Astron. Astrophys. 419, 215-224 (2004)

C	Energy Levels, Wavelengths	Exp
Na-Al	Energy Levels, Wavelengths	Exp
Ca^{0+-1+}	Energy Levels, Wavelengths	Exp
Sc-Ni^{+}	Energy Levels, Wavelengths	Exp
Fe	Energy Levels, Wavelengths	Exp
Sr^{+}	Energy Levels, Wavelengths	Exp

756. R. Schnabel, M. Schultz-Johanning, M. Kock
Fe II Lifetimes and Transition Probabilities
Astron. Astrophys. 414, 1169-1176 (2004)

Fe^+ Energy Levels, Wavelengths Exp

757. J. C. Pickering, S. Johansson, P. L. Smith
The FERRUM Project: Branching Ratios and Atomic Transition Probabilities of Fe II Transitions from the $3d^6(a^3F)4p$ Subconfiguration in the Visible to VUV Spectral Region
Astron. Astrophys. 377, 361-367 (2001)

Fe^+ Energy Levels, Wavelengths Exp

758. H. Karlsson, C. M. Sikström, S. Johansson, Z. S. Li, H. Lundberg
The FERRUM Project: Experimental f-Values for 4p-5s Transitions in Fe II
Astron. Astrophys. 371, 360-365 (2001)

Fe^+ Energy Levels, Wavelengths Exp

759. R. Kling, R. Schnabel, U. Griesmann
Accurate Lifetimes and Absolute Transition Rates for Ultraviolet Transitions from $3d^5(^4G)4p$ and $3d^5(^4P)4p$ Levels in Mn II
Astrophys. J., Suppl. Ser. 134, 173-178 (2001)

Mn^+ Energy Levels, Wavelengths Exp

760. J. C. Pickering, A. P. Thorne, R. Perez
Oscillator Strengths of Transitions in Ti II in the Visible and Ultraviolet Regions
Astrophys. J., Suppl. Ser. 132, 403-409 (2001)

Ti^+ Energy Levels, Wavelengths Exp

761. A. Kivimäki, S. Heinäsmäki, M. Jurvansuu, S. Alitalo, E. Nömmiste, H. Aksela, S. Aksela
Auger Decay at the $1s^{-1}np$ (n=3–5) Resonances of Ne
J. Electron Spectrosc. Relat. Phenom. 114-116, 49-53 (2001)

Ne Energy Levels, Wavelengths Exp

762. R. Kling, U. Griesmann
Accurate f-Values for Ultraviolet Transitions from the $3d^5(^6S)4p$ Levels in Mn II
Astrophys. J. 531, 1173-1178 (2000)

Mn^+ Energy Levels, Wavelengths Exp

763. Y. Shimizu, H. Yoshida, K. Okada, Y. Muramatsu, N. Saito, H. Ohashi, Y. Tamenori, S. Fritzsche, N. M. Kabachnik, H. Tanaka, K. Ueda
High Resolution Angle-Resolved Measurements of Auger Emission from the Photo-Excited $1s^{-1}3p$ State of Ne
J. Phys. B 33, L685-L689 (2000)

Ne Energy Levels, Wavelengths Exp

764. J. B. Boffard, G. A. Piech, M. F. Gehrke, L. W. Anderson, C. C. Lin
Measurement of Electron-Impact Excitation Cross Sections Out of Metastable Levels of Argon and Comparison with Ground-State Excitation
Phys. Rev. A 59, 2749-2763 (1999)

Ar Energy Levels, Wavelengths Exp

765. D. E. Nitz, M. E. Wickliffe, J. E. Lawler
Atomic Transition Probabilities in Ti I
Astrophys. J., Suppl. Ser. 117, 313-317 (1998)

Ti Energy Levels, Wavelengths Exp

766. E. Träbert, S. Fritzsche, C. Jupén
Sextet Levels in the Phosphorus-like Ion Cu^{14+}
Eur. Phys. J. D 3, 13-20 (1998)

Cu^{14+}	Energy Levels, Wavelengths	E/T

767. E. Landi, M. Landini, G. Del Zanna
The EUV Spectrum of κ Ceti: An Active Sun
Astron. Astrophys. 324, 1027-1035 (1997)

Fe^{8+}	Energy Levels, Wavelengths	Exp
Fe^{9+}	Energy Levels, Wavelengths	Exp
Fe^{11+}	Energy Levels, Wavelengths	Exp
$Fe^{13+-15+}$	Energy Levels, Wavelengths	Exp
Fe^{17+}	Energy Levels, Wavelengths	Exp
Fe^{18+}	Energy Levels, Wavelengths	Exp

768. K. J. H. Phillips, C. J. Greer, A. K. Bhatia, I. H. Coffey, R. Barnsley, F. P. Keenan
Fe XVII X-ray Lines in Solar Coronal and Laboratory Plasmas
Astron. Astrophys. 324, 381-394 (1997)

$Fe^{15+-16+}$	Energy Levels, Wavelengths	E/T
$Fe^{15+-17+}$	Energy Levels, Wavelengths	E/T

769. F. P. Keenan, V. J. Foster, M. Mohan, K. G. Widing
Emission Lines of Ni XVIII in the Solar EUV Spectrum
Sol. Phys. 171, 337-343 (1997)

Ar^{12+}	Energy Levels, Wavelengths	Exp

770. A. Klein, B. A. Brown, U. Georg, M. Keim, P. Lievens, R. Neugart, M. Neuroth, R. E. Silverans, L. Vermeeren, ISOLDE Collaboration
Moments and Mean Square Charge Radii of Short-Lived Argon Isotopes
Nucl. Phys. A607, 1-22 (1996)

Ar	Energy Levels, Wavelengths	Exp

771. H. L. Zhang, D. H. Sampson
Relativistic Distorted-Wave Collision Strengths and Oscillator Strengths for the $\Delta n = 0$ Transitions with $n = 2$ in C-like Ions with $9 \leq Z \leq 54$
At. Data Nucl. Data Tables 63, 275-314 (1996)

C Z= 9-54	Energy Levels, Wavelengths	Th

772. E. Danezis, E. Theodossiou
The UV Spectrum of the Be Star 88 Herculis
Astrophys. Space Sci. 174, 49-90 (1990)

C^{+-3+}	Energy Levels, Wavelengths	Exp
N^{0+-2+}	Energy Levels, Wavelengths	Exp
Mg^{0+-1+}	Energy Levels, Wavelengths	Exp
Al^{2+}	Energy Levels, Wavelengths	Exp
Si^{+-2+}	Energy Levels, Wavelengths	Exp
S^{2+}	Energy Levels, Wavelengths	Exp
Cl^{+}	Energy Levels, Wavelengths	Exp
Ti^{2+}	Energy Levels, Wavelengths	Exp
V^{+}	Energy Levels, Wavelengths	Exp
Cr^{+-2+}	Energy Levels, Wavelengths	Exp
Mn^{+-2+}	Energy Levels, Wavelengths	Exp
Fe^{0+-2+}	Energy Levels, Wavelengths	Exp
Ni^{+}	Energy Levels, Wavelengths	Exp
Cu^{+}	Energy Levels, Wavelengths	Exp
Zn^{0+-1+}	Energy Levels, Wavelengths	Exp
Ga^{+}	Energy Levels, Wavelengths	Exp

773. L. W. Acton, M. E. Bruner, W. A. Brown, B. C. Fawcett, W. Schweizer, R. J. Speer
Rocket Spectrogram of a Solar Flare in the 10–100 Å Region
Astrophys. J. 291, 865-878 (1985)

C^{4+-5+}	Energy Levels, Wavelengths	Exp

774. A. K. Bhatia, A. Temkin
Line-Shape Parameters for ^{1}P Feshbach Resonances in He and LI$^+$
Phys. Rev. A 29, 1895-1900 (1984)

He	Energy Levels, Wavelengths	E/T
Li^+	Energy Levels, Wavelengths	E/T

775. K. J. H. Phillips, J. W. Leibacher, C. J. Wolfson, J. H. Parkinson, B. C. Fawcett, B. J. Kent, H. E. Mason, L. W. Acton, J. L. Culhane, A. H. Gabriel
Solar Flare X-ray Spectra from the Solar Maximum Mission Flat Crystal Spectrometer
Astrophys. J. 256, 774-787 (1982)

O^{6+-7+}	Energy Levels, Wavelengths	Exp
Ne^{7+-9+}	Energy Levels, Wavelengths	Exp
Na^{9+}	Energy Levels, Wavelengths	Exp
Mg^{9+-11+}	Energy Levels, Wavelengths	Exp
$Al^{11+-12+}$	Energy Levels, Wavelengths	Exp
$Si^{12+-13+}$	Energy Levels, Wavelengths	Exp
$Fe^{15+-22+}$	Energy Levels, Wavelengths	Exp
$Ni^{18+-20+}$	Energy Levels, Wavelengths	Exp

776. D. C. Hartman, W. E. Hollingsworth, J. S. Winn
Dissociation of Metal Carbonyls by Metastable Rare Gases: Fe and Ni Emission Analysis
J. Chem. Phys. 72, 833-842 (1980)

Ni	Energy Levels, Wavelengths	Exp

777. E. Buendía, F. J. Gálvez, P. Maldonado, A. Sarsa
Dynamical correlation effects in the transition probability: A study for the atoms Li to Ar
Chem. Phys. Lett. 548, 1-6 (2012)

Li-Ar	Trans. prob., Oscill. Strengths	Th

778. G. Del Zanna, P. J. Storey, N. R. Badnell, H. E. Mason
Atomic data for astrophysics: Fe XII soft X-ray lines
Astron. Astrophys. 543, A139 (2012)

Fe^{11+}	Trans. prob., Oscill. Strengths	Th

779. G. Del Zanna, P. J. Storey
Atomic data for astrophysics: Fe XIII soft X-ray lines
Astron. Astrophys. 543, A144 (2012)

Fe^{12+}	Trans. prob., Oscill. Strengths	Th

780. G. Del Zanna, P. J. Storey, N. R. Badnell, H. E. Mason
Atomic data for astrophysics: Fe X soft X-ray lines
Astron. Astrophys. 541, A90 (2012)

Fe^{9+}	Trans. prob., Oscill. Strengths	Th

781. S. S. Tayal
Breit-Pauli oscillator strengths and electron excitation collision strengths for Si VIII
Astron. Astrophys. 541, A61 (2012)

Si^{7+} Trans. prob., Oscill. Strengths Th

782. B. O'Dwyer, G. Del Zanna, N. R. Badnell, H. E. Mason, P. J. Storey
Atomic data for the X-ray lines of Fe VIII and Fe IX
Astron. Astrophys. 537, A22 (2012)

Fe^{7+-8+} Trans. prob., Oscill. Strengths Th

783. C. E. Hudson, P. H. Norrington, C. A. Ramsbottom, M. P. Scott
Dirac R-matrix collision strengths and effective collision strengths for transitions of Ni XVII
Astron. Astrophys. 537, A12 (2012)

Ni^{16+} Trans. prob., Oscill. Strengths Th

784. V. Milosavljević, Z. Simić, S. Daniels, M. S. Dimitrijević
Stark shifts and transition probabilities within the Kr I spectrum
Mon. Not. R. Astron. Soc. 422, 610-618 (2012)

Kr Trans. prob., Oscill. Strengths Exp

785. E. Bäckström, J. Gurell, P. Royen, S. Mannervik, L. Norlin, R. Blackwell-Whitehead, H. Hartman, H. Nilsson
The FERRUM project: Metastable lifetimes in Cr II
Mon. Not. R. Astron. Soc. 420, 1636-1639 (2012)

Cr^{+} Trans. prob., Oscill. Strengths Exp

786. A. M. Sossah, S. S. Tayal
Transition probabilities and collision strengths for electron-impact excitation of Cl III
Astrophys. J., Suppl. Ser. 202, 12 (2012)

Cl^{2+} Trans. prob., Oscill. Strengths Th

787. L. Liang, W.-J. Gao, C. Zhou
Photoionization cross section of Ne-like Cu XX with J=1
J. Quant. Spectrosc. Radiat. Transfer 113, 2018-2022 (2012)

Cu^{19+} Trans. prob., Oscill. Strengths Th

788. S. N. Nahar
Photoionization and electron?ion recombination of Fe XVII for high temperature plasmas
J. Quant. Spectrosc. Radiat. Transfer 113, 1762-1770 (2012)

Fe^{17+} Trans. prob., Oscill. Strengths Th

789. M. Burger, M. Skočić, M. Gavrilov, S. Bukvić, S. Djeniže
Experimental transition probabilities in the Ar III and Ar IV UV spectra
J. Quant. Spectrosc. Radiat. Transfer 113, 1662-1668 (2012)

Ar^{2+-3+} Trans. prob., Oscill. Strengths Exp

790. C.-C. Sang, L. Zhuo, B.-C. Gou, F. Wang
Theoretical study on decay processes of the core-excited states in B II
J. Quant. Spectrosc. Radiat. Transfer 113, 1656-1661 (2012)

B^{+} Trans. prob., Oscill. Strengths Th

791. M. Raineri, M. Gallardo, C. J. B. Pagan, A. G. Trigueiros, J. Reyna Almandos
Lifetimes and transition probabilities in Kr V
J. Quant. Spectrosc. Radiat. Transfer 113, 1612-1627 (2012)

Kr^{4+}	Trans. prob., Oscill. Strengths	Th

792. G. Çelik, D. Doğan, Ş. Ateş, M. Taşer
Electric quadrupole transition probabilities for singly ionized magnesium
J. Quant. Spectrosc. Radiat. Transfer 113, 1601-1605 (2012)

Mg^{+}	Trans. prob., Oscill. Strengths	Th

793. A. N. Ryabtsev, E. Ya. Kononov, R. R. Kildiyarova, W.-Ü. L. Tchang-Brillet, J.-F. Wyart
$4f^{13}5s^25p^6$-$4f^{13}5s^25p^56s$ transitions in the W VIII spectrum and spectra of isoelectronic hafnium, tantalum, and rhenium ions
Opt. Spectrosc. 113, 109-114 (2012)

Ho Z= 72-75	Trans. prob., Oscill. Strengths	Th

794. A. Derevianko, V. A. Dzuba, V. V. Flambaum
Highly charged ions as a basis of optical atomic clockwork of exceptional accuracy
Phys. Rev. Lett. 109, 180801 (2012)

Os^{18+}	Trans. prob., Oscill. Strengths	Th
Au^{21+}	Trans. prob., Oscill. Strengths	Th
Bi^{25+}	Trans. prob., Oscill. Strengths	Th
Ra^{31+}	Trans. prob., Oscill. Strengths	Th
U^{34+}	Trans. prob., Oscill. Strengths	Th

795. Z. R. Zhang, X. L. Cheng, H. F. Li, Z. J. Liu, X. W. Sun
Calculation and evaluation of energy levels and radiative rates for $2s^22p^6$-$2s2p^6$np and $2s^22p^6$-$2s^22p^5$nd ($4 \leq n \leq 20$) transitions in Cu XX
At. Data Nucl. Data Tables 98, 894-809 (2012)

Cu^{19+}	Trans. prob., Oscill. Strengths	Th

796. E. Landi, A. K. Bhatia
Atomic data and spectral line intensities for Ni XV
At. Data Nucl. Data Tables 98, 862-893 (2012)

Ni^{14+}	Trans. prob., Oscill. Strengths	Th

797. Ş. Ateş, S. Özarslan, G. Çelik, M. Taşer
Oscillator strengths for Be I
At. Data Nucl. Data Tables 98, 832-851 (2012)

Be	Trans. prob., Oscill. Strengths	E/T

798. K. Wang, J. Yan, M. Huang, C. Y. Li, J. L. Zeng, C. Y. Chen, Y. S. Wang, Y. M. Zou
Electron impact excitation rate coefficients for P-like Ni XIV
At. Data Nucl. Data Tables 98, 779-797 (2012)

Ni^{13+}	Trans. prob., Oscill. Strengths	Th

799. A. Abou El-Maaref, M. A. M. Uosif, S. H. Allam, Th. M. El-Sherbini
Energy levels, oscillator strengths and transition probabilities for Si-like P II, S III, Cl IV, Ar V and K VI
At. Data Nucl. Data Tables 98, 589-615 (2012)

Si Z= 15-19	Trans. prob., Oscill. Strengths	Th

800. G. Çelik, D. Doğan, Ş. Ateş, M. Taşer
Transition probabilities and radiative lifetimes of levels in F I
At. Data Nucl. Data Tables 98, 566-588 (2012)

F	Trans. prob., Oscill. Strengths	E/T

801. P. Bogdanovich, R. Kisielius
Theoretical energy level spectra and transition data for $4p^6 4d$, $4p^6 4f$ and $4p^5 4d^2$ configurations of W^{37+} ion
At. Data Nucl. Data Tables 98, 557-565 (2012)

W^{37+}	Trans. prob., Oscill. Strengths	Th

802. P. Rynkun, P. Jönsson, G. Gaigalas, C. Froese Fischer
Energies and E1, M1, E2, M2 transition rates for states of the $2s^2 2p$, $2s2p^2$, and $2p^3$ configurations in boron-like ions between N III and Zn XXVI
At. Data Nucl. Data Tables 98, 481-556 (2012)

B Z= 7-30	Trans. prob., Oscill. Strengths	Th

803. L. Di, J. R. Shi, G. Zhao
Electron impact collision strengths in Ne VII
At. Data Nucl. Data Tables 98, 437-480 (2012)

Ne^{6+}	Trans. prob., Oscill. Strengths	Th

804. G. Gaigalas, P. Rynkun, A. Alkauskas, Z. R. Rudzikas
The energy levels and radiative transition probabilities for electric quadrupole and magnetic dipole transitions among the levels of the ground configuration, $[Kr]4d^{10}4f^4$, of W^{24+}
At. Data Nucl. Data Tables 98, 391-436 (2012)

W^{24+}	Trans. prob., Oscill. Strengths	Th

805. O. Nagy, F. El Sayed
Energies, wavelengths, and transition probabilities for Ge-like Kr, Mo, Sn, and Xe ions
At. Data Nucl. Data Tables 98, 373-390 (2012)

Kr^{4+}	Trans. prob., Oscill. Strengths	Th
Mo^{10+}	Trans. prob., Oscill. Strengths	Th
Sn^{18+}	Trans. prob., Oscill. Strengths	Th
Xe^{22+}	Trans. prob., Oscill. Strengths	Th

806. V. Jonauskas, G. Gaigalas, S. Kučas
Relativistic calculations for M1-type transitions in $4d^N$ configurations of W^{29+}–W^{37+} ions
At. Data Nucl. Data Tables 98, 19-42 (2012)

$W^{29+-37+}$	Trans. prob., Oscill. Strengths	Th

807. J. Singh, S. Aggarwal, A. K. Singh, M. Mohan
Breit-Pauli atomic structure calculations for sulphur-like titanium
Can. J. Phys. 90, 833-847 (2012)

Ti^{6+}	Trans. prob., Oscill. Strengths	Th

808. K. M. Aggarwal, F. P. Keenan
Energy levels, radiative rates and electron impact excitation rates for transitions in Be-like Ti XIX
Phys. Scr. 86, 055301 (2012)

Ti^{18+}	Trans. prob., Oscill. Strengths	Th

809. V. A. Dzuba, A. Derevianko, V. V. Flambaum
High-precision atomic clocks with highly charged ions: Nuclear-spin-zero f^{12}-shell ions
Phys. Rev. A 86, 054501 (2012)

Hf^{12+}	Trans. prob., Oscill. Strengths	Th
W^{14+}	Trans. prob., Oscill. Strengths	Th
Os^{18+}	Trans. prob., Oscill. Strengths	Th
Pt^{20+}	Trans. prob., Oscill. Strengths	Th
Hg^{22+}	Trans. prob., Oscill. Strengths	Th
Pb^{24+}	Trans. prob., Oscill. Strengths	Th
Po^{26+}	Trans. prob., Oscill. Strengths	Th
Ra^{30+}	Trans. prob., Oscill. Strengths	Th
Th^{32+}	Trans. prob., Oscill. Strengths	Th
U^{34+}	Trans. prob., Oscill. Strengths	Th

810. J.-G. Li, P. Jönsson, M. Godefroid, C.-Z. Dong, G. Gaigalas
Effects of the electron correlation and Breit and hyperfine interactions on the lifetime of the $2p^5 3s$ states in neutral neon
Phys. Rev. A 86, 052523 (2012)

Ne	Trans. prob., Oscill. Strengths	Th

811. J. P. Marques, F. Parente, A. M. Costa, M. C. Martins, P. Indelicato, J. P. Santos
Decay of the $1s^2 2s3p\ ^3P_0$ level in Be-like ions
Phys. Rev. A 86, 052521 (2012)

Be Z= 5-12	Trans. prob., Oscill. Strengths	Th
Be Z= 14-34 step 2	Trans. prob., Oscill. Strengths	Th
Be Z= 46-56 step 2	Trans. prob., Oscill. Strengths	Th
Be Z= 70-90 step 4	Trans. prob., Oscill. Strengths	Th
Mo^{38+}	Trans. prob., Oscill. Strengths	Th
Sm^{58+}	Trans. prob., Oscill. Strengths	Th
U^{88+}	Trans. prob., Oscill. Strengths	Th

812. V. A. Dzuba, V. V. Flambaum
Calculation of parity nonconservation in xenon and mercury
Phys. Rev. A 86, 052512 (2012)

Xe	Trans. prob., Oscill. Strengths	Th
Hg	Trans. prob., Oscill. Strengths	Th

813. Y.-J. Cheng, J. Mitroy
Blackbody radiation shift of the B^+ clock transition
Phys. Rev. A 86, 052505 (2012)

B^{+-2+}	Trans. prob., Oscill. Strengths	Th

814. M. S. Safronova, U. I. Safronova, C. W. Clark
Magic wavelengths for optical cooling and trapping of lithium
Phys. Rev. A 86, 042505 (2012)

Li	Trans. prob., Oscill. Strengths	Th

815. K. M. Aggarwal, F. P. Keenan
Energy levels, radiative rates and electron impact excitation rates for transitions in He-like Kr XXXV
Phys. Scr. 86, 035302 (2012)

Kr^{34+}	Trans. prob., Oscill. Strengths	Th

816. T. Das, L. Sharma, R. Srivastava
Electron impact excitation of the M-shell electrons from Zn-like through Co-like tungsten ions
Phys. Scr. 86, 035301 (2012)

W$^{44+-47+}$	Trans. prob., Oscill. Strengths	Th

817. H. Gharibnejad, A. Derevianko
Coupled-Cluster calculations of properties of the boron atom as a monovalent system
Phys. Rev. A 86, 022505 (2012)

B	Trans. prob., Oscill. Strengths	Th

818. G. P. Gupta, A. Z. Msezane
Fine-Structure energy levels, radiative rates and lifetimes in Si-like nickel
Phys. Scr. 86, 015303 (2012)

Ni^{14+}	Trans. prob., Oscill. Strengths	Th

819. K. M. Aggarwal, F. P. Keenan
Energy levels, radiative rates and electron impact excitation rates for transitions in He-like Ti XXI, V XXII, Cr XXIII and Mn XXIV
Phys. Scr. 85, 065301 (2012)

Ti^{20+}	Trans. prob., Oscill. Strengths	Th
V^{21+}	Trans. prob., Oscill. Strengths	Th
Cr^{22+}	Trans. prob., Oscill. Strengths	Th
Mn^{23+}	Trans. prob., Oscill. Strengths	Th

820. X.-Y. Han, X. Gao, D.-L. Zeng, J. Yan, J.-M. Li
Ratio of forbidden transition rates in the ground-state configuration of O II
Phys. Rev. A 85, 062506 (2012)

O^{+}	Trans. prob., Oscill. Strengths	Th

821. E. Träbert, M. Grieser, J. Hoffmann, C. Krantz, R. Repnow, A. Wolf
Heavy-ion storage-ring-lifetime measurement of metastable levels in the C-, N-, and O-like ions of Si, P, and S
Phys. Rev. A 85, 042508 (2012)

Si^{7+}	Trans. prob., Oscill. Strengths	Exp
P^{7+-9+}	Trans. prob., Oscill. Strengths	Exp
S^{8+}	Trans. prob., Oscill. Strengths	Exp
S^{10+}	Trans. prob., Oscill. Strengths	Exp

822. Madhulita Das, Madhusmita Das, R. K. Chaudhuri, S. Chattopadhyay
Application of relativistic Fock-space coupled-cluster theory to study Li and Li-like ions in plasma
Phys. Rev. A 85, 042506 (2012)

Li	Trans. prob., Oscill. Strengths	Th
C^{3+}	Trans. prob., Oscill. Strengths	Th
Al^{10+}	Trans. prob., Oscill. Strengths	Th

823. C. Froese Fischer, G. Gaigalas
Multiconfiguration Dirac-Hartree-Fock energy levels and transition probabilities for W XXXVIII
Phys. Rev. A 85, 042501 (2012)

W^{37+}	Trans. prob., Oscill. Strengths	Th

824. J.-C. Pain, F. Gilleron
Characterization of anomalous Zeeman patterns in complex atomic spectra
Phys. Rev. A 85, 033409 (2012)

C^{4+}	Trans. prob., Oscill. Strengths	Th

825. R. P. McEachran, M. Vos
Large-Angle scattering of energetic electrons from Xe: A combined theoretical and experimental approach
Phys. Rev. A 85, 032703 (2012)

Xe	Trans. prob., Oscill. Strengths	Th

826. U. I. Safronova, A. S. Safronova
Dielectronic recombination of Er-like tungsten
Phys. Rev. A 85, 032507 (2012)

W^{5+}	Trans. prob., Oscill. Strengths	Th

827. K. M. Aggarwal, F. P. Keenan
Energy levels, radiative rates and electron impact excitation rates for transitions in He-like Cl XVI, K XVIII, Ca XIX and Sc XX
Phys. Scr. 85, 025306 (2012)

Cl^{15+}	Trans. prob., Oscill. Strengths	Th
K^{17+}	Trans. prob., Oscill. Strengths	Th
Ca^{18+}	Trans. prob., Oscill. Strengths	Th
Sc^{19+}	Trans. prob., Oscill. Strengths	Th

828. K. M. Aggarwal, F. P. Keenan
Energy levels, radiative rates and electron impact excitation rates for transitions in He-like Mg XI, Al XII, P XIV and S XV
Phys. Scr. 85, 025305 (2012)

Mg^{10+}	Trans. prob., Oscill. Strengths	Th
Al^{11+}	Trans. prob., Oscill. Strengths	Th
P^{13+}	Trans. prob., Oscill. Strengths	Th
S^{14+}	Trans. prob., Oscill. Strengths	Th

829. V. Gedeon, S. Gedeon, V. Lazur, E. Nagy, O. Zatsarinny, K. Bartschat
Electron scattering from silicon
Phys. Rev. A 85, 022711 (2012)

Si	Trans. prob., Oscill. Strengths	Th

830. W. Vassen, C. Cohen-Tannoudji, M. Leduc, D. Boiron, C. I. Westbrook, A. Truscott, K. Baldwin, G. Birkl, P. Cancio, M. Trippenbach
Cold and trapped metastable noble gases
Rev. Mod. Phys. 84, 175-210 (2012)

He	Trans. prob., Oscill. Strengths	E/T
Ne	Trans. prob., Oscill. Strengths	E/T
Ar	Trans. prob., Oscill. Strengths	E/T
Kr	Trans. prob., Oscill. Strengths	E/T
Xe	Trans. prob., Oscill. Strengths	E/T

831. L. Y. Jiang, Q. Wang, Y. Y. Feng, P. Quinet, É. Biémont, S. B. Li, Z. W. Dai
Experimental and theoretical radiative properties of odd-parity highly excited levels in Mo II
Eur. Phys. J. D 66, 176 (2012)

Mo^{+}	Trans. prob., Oscill. Strengths	E/T

832. B. L. Deng, G. Jiang, L. Zhang, X. Wang, X. Z. Hua
Relativistic configuration interaction calculations on Kα X-ray satellites of magnesium ions
Eur. Phys. J. D 66, 146 (2012)

Mg^{2+-10+}	Trans. prob., Oscill. Strengths	Th

833. V. Stancalie, V. F. Pais, A. Mihailescu, Contributors to the EFDA-TF-ITM
Fine-Structure splitting calculation in the Ar III ion: Comparison of perturbative (Breit-Pauli) and non-perturbative (MCDF-EAL) predictions
Eur. Phys. J. D 66, 84 (2012)

Ar^{2+}	Trans. prob., Oscill. Strengths	Th

834. S.-Z. Liu, L.-Y. Xie, X.-B. Ding, C.-Z. Dong
The effect of relativity on the structures and transition properties of Li-like ions
Acta Phys. Sin. 61, 093106 (2012)

Li	Trans. prob., Oscill. Strengths	Th
Be^{+}	Trans. prob., Oscill. Strengths	Th
C^{3+}	Trans. prob., Oscill. Strengths	Th
O^{5+}	Trans. prob., Oscill. Strengths	Th
Ne^{7+}	Trans. prob., Oscill. Strengths	Th
Ar^{15+}	Trans. prob., Oscill. Strengths	Th
Fe^{23+}	Trans. prob., Oscill. Strengths	Th
Mo^{39+}	Trans. prob., Oscill. Strengths	Th
W^{71+}	Trans. prob., Oscill. Strengths	Th
U^{89+}	Trans. prob., Oscill. Strengths	Th

835. E. Träbert, M. Grieser, C. Krantz, R. Repnow, A. Wolf, F. J. Diaz, Y. Ishikawa, J. A. Santana
Isoelectronic trends of the E1-forbidden decay rates of Al-, Si-, P-, and S-like ions of Cl, Ti, Mn, Cu, and Ge
J. Phys. B 45, 215003 (2012)

Al Z= 25-29	Trans. prob., Oscill. Strengths	E/T
S Z= 25-29	Trans. prob., Oscill. Strengths	E/T
P Z= 25-29	Trans. prob., Oscill. Strengths	E/T
Si Z= 25-29	Trans. prob., Oscill. Strengths	E/T
Cl^{+-4+}	Trans. prob., Oscill. Strengths	E/T
Cl^{3+}	Trans. prob., Oscill. Strengths	E/T
Ti^{6+}	Trans. prob., Oscill. Strengths	E/T
Ti^{6+-9+}	Trans. prob., Oscill. Strengths	E/T
Mn^{9+-12+}	Trans. prob., Oscill. Strengths	E/T
Cu$^{13+-16+}$	Trans. prob., Oscill. Strengths	E/T
Ge$^{16+-19+}$	Trans. prob., Oscill. Strengths	E/T
Ge^{18+}	Trans. prob., Oscill. Strengths	E/T
Kr^{22+}	Trans. prob., Oscill. Strengths	E/T

836. J. Migdalek, W. Siegel
Relativistic E1 transition probabilities and lifetimes along Yb^{+} isoelectronic sequence
J. Phys. B 45, 145002 (2012)

Tm Z= 70-74	Trans. prob., Oscill. Strengths	Th

837. M. Andersson, T. Lennartsson, H. Nilsson, C.-Y. Chen
The anomalous hyperfine structure of Al II
J. Phys. B 45, 135001 (2012)

Al^{+}	Trans. prob., Oscill. Strengths	Th

838. U. I. Safronova, A. S. Safronova, P. Beiersdorfer
Excitation energies, radiative and autoionization rates, dielectronic satellite lines, and dielectronic recombination rates for excited states of Yb-like W
J. Phys. B 45, 085001 (2012)

W^{4+}	Trans. prob., Oscill. Strengths	Th

839. S. Enzonga Yoca, P. Quinet, P. Palmeri, É. Biémont
Comparative semi-empirical and ab initio atomic structure calculations in Yb-like tungsten W^{4+}
J. Phys. B 45, 065001 (2012)

W^{4+}	Trans. prob., Oscill. Strengths	Th

840. M. Ortiz, R. Mayo-García
Experimental oscillator strengths in Re I
J. Phys. B 45, 055701 (2012)

Re	Trans. prob., Oscill. Strengths	Exp

841. I. M. Savukov
CI-RMBPT neon g-factors
J. Phys. B 45, 045002 (2012)

Ne	Trans. prob., Oscill. Strengths	Th

842. X.-B. Ding, F. Koike, I. Murakami, D. Kato, H. A. Sakaue, C.-Z. Dong, N. Nakamura
M1 transition energies and probabilities between the multiplets of the ground state of Ag-like ions with Z = 47–92
J. Phys. B 45, 035003 (2012)

Ag Z= 47-92	Trans. prob., Oscill. Strengths	Th

843. S. Enzonga Yoca, P. Palmeri, P. Quinet, G. Jumet, É. Biémont
Radiative properties and core-polarization effects in the W^{5+} ion
J. Phys. B 45, 035002 (2012)

W^{5+}	Trans. prob., Oscill. Strengths	Th

844. S. Enzonga Yoca, P. Quinet, É. Biémont
Configuration interaction and radiative decay rates in trebly ionized tungsten (W IV)
J. Phys. B 45, 035001 (2012)

W^{3+}	Trans. prob., Oscill. Strengths	Th

845. P. Quinet
A theoretical survey of atomic structure and forbidden transitions in the $4p^k$ and $4d^k$ ground configurations of tungsten ions W^{29+} through W^{43+}
J. Phys. B 45, 025003 (2012)

$W^{29+-43+}$	Trans. prob., Oscill. Strengths	Th

846. J.-Z. Fan, D.-H. Zhang, Z.-W. Chang, Y.-L. Shi, C.-Z. Dong
Energy-Crossing and its effect on lifetime of the $4s^24p\ ^2P_{3/2}$ level for highly charged Ga-like ions
Chin. Phys. Lett. 29, 073102 (2012)

Ga Z= 68-79	Trans. prob., Oscill. Strengths	Th
Ga Z= 75-79	Trans. prob., Oscill. Strengths	Th
Ga Z= 81-95 step 2	Trans. prob., Oscill. Strengths	Th

847. S. Shahzada, P. Ijaz, M. Shah, S.-U. Haq, M. Ahmed, A. Nadeem
Photoionization studies from the 3p ^{2}P excited state of neutral lithium
J. Opt. Soc. Am. B 29, 3386-3392 (2012)

Li	Trans. prob., Oscill. Strengths	Exp

848. A. V. Sukhorukov, N. G. Shchukina
Solar spectrum of silicon and diagnostics of the solar atmosphere
Kinemat. Phys. Celest. Bodies 28, 27-34 (2012)

Si	Trans. prob., Oscill. Strengths	E/T

849. J.-Z. Fan, Q.-M. Wang, Z.-W. Chang, C.-Z. Dong
Transition probabilities and lifetimes of the low-lying levels of Fe XIV
Chin. Phys. B 21, 063102 (2012)

Fe^{13+}	Trans. prob., Oscill. Strengths	Th

850. Z.-R. Zhang, X.-L. Cheng, Z.-J. Liu, J.-H. Yang, H.-F. Li
Theoretical study on 2s2p^{6}np Rydberg states of Cu^{19+} ion
Chin. Phys. B 21, 013101 (2012)

Cu^{19+}	Trans. prob., Oscill. Strengths	Th

851. Z.-w. Wang, Y. Guo
Theoretical study on the 1s^{2}2s-1s^{2}np transitions for Ni^{25+} ion
Frontiers Phys. 7, 252-255 (2012)

Ni^{25+}	Trans. prob., Oscill. Strengths	Th

852. J. Clementson
Spectral modeling of Fe XVII pumped by a free-electron x-ray laser
Proc. SPIE 8140, 81401C (2011)

Fe$^{15+-16+}$	Trans. prob., Oscill. Strengths	Th

853. P. Oliver, A. Hibbert
Detailed atomic structure of neutral and near-neutral systems
AIP Conf. Proc. 1344, 70-77 (2011)

Cl	Trans. prob., Oscill. Strengths	Th
Sn^{+}	Trans. prob., Oscill. Strengths	Th

854. S. S. Tayal, O. Zatsarinny
Effective collision strengths for electron-impact excitation of Fe VIII
Astrophys. J. 743, 206 (2011)

Fe^{7+}	Trans. prob., Oscill. Strengths	Th

855. C. M. Cassidy, C. A. Ramsbottom, M. P. Scott
Electron-Impact excitation of Ni II: Effective collision strengths for optically allowed fine-structure transitions
Astrophys. J. 738, 5 (2011)

Ni^{+}	Trans. prob., Oscill. Strengths	Th

856. N. C. Deb, A. Hibbert
Radiative transition rates for the forbidden lines in Fe II
Astron. Astrophys. 536, A74 (2011)

Fe^{+}	Trans. prob., Oscill. Strengths	Th

857. L. Mashonkina, T. Gehren, J.-R. Shi, A. J. Korn, F. Grupp
A non-LTE study of neutral and singly-ionized iron line spectra in 1D models of the Sun and selected late-type stars
Astron. Astrophys. 528, A87 (2011)

Fe^{0+-1+}	Trans. prob., Oscill. Strengths	E/T

858. I. R. Wasson, C. A. Ramsbottom, M. P. Scott
Electron-Impact excitation of Cr II: A theoretical calculation of effective collision strengths for optically allowed transitions
Astrophys. J., Suppl. Ser. 196, 24 (2011)

Cr^{+}	Trans. prob., Oscill. Strengths	Th

859. J. Manrique, J. A. Aguilera, C. Aragón
Determination of transition probabilities by laser-induced breakdown spectroscopy with curve-of-growth measurements
J. Quant. Spectrosc. Radiat. Transfer 112, 85-91 (2011)

Ni^{+}	Trans. prob., Oscill. Strengths	Exp

860. P. Jönsson, P. Rynkun, G. Gaigalas
Energies, E1, M1, and E2 transition rates, hyperfine structures, and Landé g_J factors for states of the $2s^22p^2$, $2s2p^3$, and $2p^4$ configurations in carbon-like ions between F IV and Ni XXIII
At. Data Nucl. Data Tables 97, 648-691 (2011)

C Z= 9-28	Trans. prob., Oscill. Strengths	Th

861. A. Lobel
Oscillator strength measurements of atomic absorption lines from stellar spectra
Can. J. Phys. 89, 395-402 (2011)

Si	Trans. prob., Oscill. Strengths	Exp
Fe	Trans. prob., Oscill. Strengths	Exp
Ni	Trans. prob., Oscill. Strengths	Exp

862. R. Kadrekar, L. Natarajan
Radiative one- and two-electron transitions into the empty K shell of He-like ions
Phys. Rev. A 84, 062506 (2011)

He Z= 4-10	Trans. prob., Oscill. Strengths	Th
He Z= 12-14	Trans. prob., Oscill. Strengths	Th
He Z= 18-26 step 2	Trans. prob., Oscill. Strengths	Th

863. E. P. Ivanova
Highly efficient tabletop x-ray laser at λ=41.8 nm in Pd-like xenon pumped by optical-field ionization in a cluster jet
Phys. Rev. A 84, 043829 (2011)

Xe^{8+}	Trans. prob., Oscill. Strengths	Th

864. M. Das, R. K. Chaudhuri, S. Chattopadhyay, U. S. Mahapatra
Fock-space multireference coupled-cluster calculations of the hyperfine structure of isoelectronic $^{33}S^{-}$ and $^{35,37}Cl$
Phys. Rev. A 84, 042512 (2011)

Cl	Trans. prob., Oscill. Strengths	Th

865. F. Hu, J.-M. Yang, C.-K. Wang, L.-F. Jing, S.-B. Chen, G. Jiang, H. Liu, L.-H. Hao
Multiconfiguration Dirac-Fock calculations on multi-valence-electron systems: Benchmarks on Ga-like ions
Phys. Rev. A 84, 042506 (2011)

Ga Z= 32-36	Trans. prob., Oscill. Strengths	Th

866. S. N. Nahar, A. K. Pradhan, G.-X. Chen, W. Eissner
Highly excited core resonances in photoionization of Fe XVII: Implications for plasma opacities
Phys. Rev. A 83, 053417 (2011)

Fe^{16+}	Trans. prob., Oscill. Strengths	Th

867. X. Wang, G. Jiang, L. H. Hao, L. Zhang, B. Deng
Systematic multi-configuration Dirac-Fock calculations of the Kα and Kβ X-ray spectra of silicon ions
Eur. Phys. J. D 65, 505-508 (2011)

Si^{4+-12+}	Trans. prob., Oscill. Strengths	Th

868. F. Hu, J.-M. Yang, C.-K. Wang, J.-Y. Zhang, G. Jiang, Z.-H. Zhu
Influence of electron correlation on Au ions
Acta Phys. Sin. 60-10, 103104 (2011)

Au^{66+}	Trans. prob., Oscill. Strengths	Th
Au^{67+}	Trans. prob., Oscill. Strengths	Th

869. T. Lennartsson, H. Nilsson, R. Blackwell-Whitehead, L. Engström, S. Huldt
Branching fractions in singly ionized tungsten
J. Phys. B 44, 245001 (2011)

W^{+}	Trans. prob., Oscill. Strengths	Exp

870. M. A. Bari, M. Salahuddin, B. Duan, M. H. Nasim, S. A. Hussain
Calculation of energy levels, transition rates, oscillator strengths and lifetimes in Ne-like Au
J. Phys. B 44, 225004 (2011)

Au^{69+}	Trans. prob., Oscill. Strengths	Th

871. S. Civiš, I. Matulková, J. Cihelka, P. Kubelík, K. Kawaguchi, V. E. Chernov
Time-resolved FTIR emission spectroscopy of Cu in the 1800–3800 cm^{-1} region: transitions involving f and g states and oscillator strengths
J. Phys. B 44, 025002 (2011)

Cu	Trans. prob., Oscill. Strengths	Th

872. H. Elabidi, S. Sahal-Bréchot, N. Ben Nessib
Cross sections for electron impact excitation of O VI lines
Balt. Astron. 20-4, 587-590 (2011)

O^{5+}	Trans. prob., Oscill. Strengths	Th

873. P. Bogdanovich, V. Jonauskas, R. Karpuškienė, O. Rancova
Theoretical investigation of X-ray radiation of 4-4 transitions in highly charged tungsten ions
Nucl. Instrum. Methods Phys. Res. A 619, 15-17 (2010)

W^{29+}	Trans. prob., Oscill. Strengths	Th
W^{36+}	Trans. prob., Oscill. Strengths	Th

874. R. K. Gangwar, L. Sharma, R. Srivastava, A. D. Stauffer
Electron-Impact excitation of krypton: Cross sections of interest in plasma modeling
Phys. Rev. A 82, 032710 (2010)

Kr	Trans. prob., Oscill. Strengths	Th

875. J.-Z. Fan
Relativistic configuration interaction calculations on the Kα x-ray satellites of chromium
Phys. Scr. 79, 025304 (2009)

Cr$^{14+-22+}$	Trans. prob., Oscill. Strengths	Th

876. A. N. Sil, J. Anton, S. Fritzsche, P. K. Mukherjee, B. Fricke
Spectra of heliumlike carbon, aluminium and argon under strongly coupled plasma
Eur. Phys. J. D 55, 645-652 (2009)

C^{4+}	Trans. prob., Oscill. Strengths	Th
Al^{11+}	Trans. prob., Oscill. Strengths	Th
Ar^{16+}	Trans. prob., Oscill. Strengths	Th

877. S. Djeniže, A. Srećković, S. Bukvić
Transition probability ratios in the Mg I 3p–4s transition
Serb. Astron. J. 168, 45-48 (2004)

Mn	Trans. prob., Oscill. Strengths	Exp

878. A. Čeki, O. Latković, I. Vince
On the modifications of oscillator strengths and damping constants of Fe I spectral lines from 500 nm to 510 nm
Serb. Astron. J. 168, 37-44 (2004)

Fe	Trans. prob., Oscill. Strengths	E/T

879. N. Vitas, I. Vince
The influence of hyperfine structure on some manganese line profiles in the solar spectrum
Serb. Astron. J. 167, 37-43 (2003)

Mn	Trans. prob., Oscill. Strengths	E/T

Author Index