

# Dmitry Fursa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4287851/publications.pdf>

Version: 2024-02-01

289  
papers

5,346  
citations

109321

35  
h-index

138484

58  
g-index

290  
all docs

290  
docs citations

290  
times ranked

1575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmic rays in molecular clouds probed by H <sub>2</sub> rovibrational lines. <i>Astronomy and Astrophysics</i> , 2022, 658, A189.	5.1	19
2	Taking the Convergent Close-Coupling Method beyond Helium: The Utility of the Hartree-Fock Theory. <i>Atoms</i> , 2022, 10, 22.	1.6	3
3	Anisotropic angular scattering models of elastic electron-neutral collisions for Monte Carlo plasma simulations. <i>Plasma Sources Science and Technology</i> , 2022, 31, 065013.	3.1	2
4	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: I. Fully vibrationally-resolved electronic excitation of H $\langle$ mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e3985" altimg="si24.svg"><mml:mrow><mml:msub><mml:mrow>		

#	ARTICLE	IF	CITATIONS
19	Collisions of antiprotons with excited positronium atoms. <i>Physical Review A</i> , 2021, 104, .	2.5	5
20	Cross sections for electron scattering from atomic lead. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 015204.	1.5	6
21	Calculations of positron scattering on the hydrogen molecular ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 015203.	1.5	5
22	Rayleigh and Raman Scattering from Alkali Atoms. <i>Atoms</i> , 2020, 8, 57.	1.6	4
23	Configuration space method to calculate rearrangement matrix elements. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 222004.	0.4	0
24	Convergent close-coupling calculations of positron collisions with the hydrogen negative ion. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 222005.	0.4	0
25	On the effect of cascade transitions after electron-impact excitation of Zn by spin-polarized electrons. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 142009.	0.4	0
26	Electron-impact excitation of the ( 5s25p ) P1/2 $\hat{a}$ '(5s26s ) S1/2 transition in indium: Theory and experiment. <i>Physical Review A</i> , 2020, 102, .	2.5	5
27	Charge transfer in positronium $\hat{e}$ proton collisions: comparison of classical and quantum-mechanical theories. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 155201.	1.5	5
28	Effect of Electron Capture on Spectral Line Broadening in Hot Dense Plasmas. <i>Physical Review Letters</i> , 2020, 124, 055003.	7.8	16
29	Electron-scattering on molecular hydrogen: convergent close-coupling approach. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	11
30	Calculations of electron scattering on H-like ions. <i>Physical Review A</i> , 2020, 101, .	2.5	3
31	Benchmark calculations of electron impact electronic excitation of the hydrogen molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 145204.	1.5	22
32	Effect of cascade transitions on the polarization of light emitted after electron-impact excitation of Zn by spin-polarized electrons. <i>Physical Review A</i> , 2019, 100, .	2.5	2
33	Non-LTE analysis of K I in late-type stars. <i>Astronomy and Astrophysics</i> , 2019, 627, A177.	5.1	41
34	Spin asymmetry in electron-impact ionization. <i>Physical Review A</i> , 2019, 100, .	2.5	6
35	Convergent close-coupling calculations of positron scattering on H $\hat{a}$ . <i>Physical Review A</i> , 2019, 100, .	2.5	2
36	Laser-driven production of the antihydrogen molecular ion. <i>Physical Review A</i> , 2019, 100, .	2.5	9

#	ARTICLE	IF	CITATIONS
37	Electron-Impact Dissociation of Vibrationally-Excited Molecular Hydrogen into Neutral Fragments. <i>Atoms</i> , 2019, 7, 75.	1.6	6
38	Vibrational excitation of the $\{H\}_2X^{1\{\Sigma\}}_g^+$ state via electron-impact excitation and radiative cascade. <i>Plasma Sources Science and Technology</i> , 2019, 28, 025004.	3.1	12
39	Positron-impact electronic excitations and mass stopping power of $H$ . <i>Physical Review A</i> , 2019, 99, .	2.5	7
40	Recommended electron-impact excitation and ionization cross sections for Be I. <i>Atomic Data and Nuclear Data Tables</i> , 2019, 127-128, 1-21.	2.4	9
41	Calculation of electron scattering on atomic silver. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 085203.	1.5	8
42	Indirect contributions to electron-impact ionization of $Li^+ (1s2sS13)$ ions: Role of intermediate double- K -vacancy states. <i>Physical Review A</i> , 2018, 97, .	2.5	9
43	Electron-impact coherence parameters for $4P_{1/2}$ excitation of zinc. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 085002.	1.5	4
44	Electron-impact dissociation of molecular hydrogen into neutral fragments. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	24
45	Near-Threshold Cross Sections for Electron and Positron Impact Ionization of Atomic Hydrogen. <i>Physical Review Letters</i> , 2018, 121, 203401.	7.8	14
46	Low-energy electron scattering from molecular hydrogen: Excitation of the $X^{1\Sigma}_g^+$ transition. <i>Physical Review A</i> , 2018, 98, .	2.5	19
47	Efficient calculation of Rayleigh and Raman scattering. <i>Physical Review A</i> , 2018, 98, .	2.5	8
48	Electron-impact dissociative excitation cross sections for singlet states of molecular hydrogen. <i>Physical Review A</i> , 2018, 98, .	2.5	13
49	Time-of-flight electron scattering from molecular hydrogen: Benchmark cross sections for excitation of the $X^{1\Sigma}_g^+$ transition. <i>Physical Review A</i> , 2018, 97, .	2.5	15
50	Comparison of experiment and theory for superelastic electron-collision studies from laser-aligned magnesium. <i>Physical Review A</i> , 2018, 98, .	2.5	2
51	Vibrationally resolved electron-impact excitation cross sections for singlet states of molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 144007.	1.5	13
52	Electron and positron molecule scattering: development of the molecular convergent close-coupling method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 123001.	1.5	59
53	Inelastic $e+Mg$ collision data and its impact on modelling stellar and supernova spectra. <i>Astronomy and Astrophysics</i> , 2017, 606, A11.	5.1	18
54	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	2.5	27

#	ARTICLE	IF	CITATIONS
55	Kinetic-energy release of fragments from electron-impact dissociation of the molecular hydrogen ion and its isotopologues. <i>Physical Review A</i> , 2017, 96, .	2.5	13
56	Differential cross sections for excitation of $H_2$ by low-energy electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 225203.	1.5	10
57	Electron mass stopping power in $H_2$ . <i>Physical Review A</i> , 2017, 96, .	2.5	8
58	Convergent close-coupling approach to light and heavy projectile scattering on atomic and molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 202001.	1.5	34
59	Electron-impact excitation of molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	2.5	46
60	Solving close-coupling equations in momentum space without singularities for charged targets. <i>Computer Physics Communications</i> , 2017, 212, 55-58.	7.5	7
61	LXCat: an Open-Access, Web-Based Platform for Data Needed for Modeling Low Temperature Plasmas. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600098.	3.0	188
62	Low-energy electron-impact dissociative excitation of molecular hydrogen and its isotopologues. <i>Physical Review A</i> , 2017, 96, .	2.5	18
63	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. <i>Astrophysical Journal</i> , 2017, 851, 64.	4.5	13
64	Calculations of electron-impact ionisation of $\text{Fe}^{25+}$ and $\text{Fe}^{24+}$ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 184001.	1.5	2
65	Polarization of Lyman- $\alpha$ emission in proton-hydrogen collisions studied using a semiclassical two-center convergent close-coupling approach. <i>Physical Review A</i> , 2016, 93, .	2.5	33
66	Complete Solution of Electronic Excitation and Ionization in Electron-Hydrogen Molecule Scattering. <i>Physical Review Letters</i> , 2016, 116, 233201.	7.8	47
67	Calculations for electron-impact excitation and ionization of beryllium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 235701.	1.5	15
68	Antiproton stopping power data for radiation therapy simulations. <i>Physica Medica</i> , 2016, 32, 1827-1832.	0.7	7
69	Solving close-coupling equations in momentum space without singularities II. <i>Computer Physics Communications</i> , 2016, 203, 147-151.	7.5	10
70	Internal consistency in the close-coupling approach to positron collisions with atoms. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	16
71	$41P1Zn$ excitation by 80-eV electrons. <i>Physical Review A</i> , 2015, 91, .	2.5	4
72	Calculation of electron-impact ionization of Mg and Al. <i>Physical Review A</i> , 2015, 92, .	2.5	4

#	ARTICLE	IF	CITATIONS
73	Antiproton stopping in atomic targets. Physical Review A, 2015, 92, .	2.5	22
74	Convergent close coupling versus the generalized Sturmian function approach: Wave-function analysis. Physical Review A, 2015, 92, .	2.5	4
75	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. Physical Review A, 2015, 92, .	2.5	17
76	Antiproton stopping in $H_2$ . Physical Review A, 2015, 92, .	2.5	14
77	Two-center close-coupling calculations of positron molecular-hydrogen scattering. Physical Review A, 2015, 92, .	2.5	24
78	Accurate stopping power calculations for antiprotons and protons. Journal of Physics: Conference Series, 2015, 635, 022034.	0.4	0
79	Ionisation of noble gas atoms and H <sub>2</sub> O by antiproton impact. Journal of Physics: Conference Series, 2015, 635, 022032.	0.4	0
80	Calculations of electron and positron scattering from vibrationally excited H <sub>2</sub> <sup>+</sup> and H <sub>2</sub> . Journal of Physics: Conference Series, 2015, 635, 072047.	0.4	0
81	Convergent calculations of positron scattering from molecular hydrogen. Journal of Physics: Conference Series, 2015, 635, 012009.	0.4	5
82	e-Zn inelastic scattering at 80 eV. Journal of Physics: Conference Series, 2015, 635, 092102.	0.4	0
83	Antiproton-impact ionization of Ne, Ar, Kr, Xe, and H <sub>2</sub> O. Physical Review A, 2015, 91, .	2.5	13
84	Electron collisions with beryllium and its ions. Journal of Physics: Conference Series, 2015, 576, 012001.	0.4	4
85	Solving close-coupling equations in momentum space without singularities. Computer Physics Communications, 2015, 196, 276-279.	7.5	11
86	Spectral Line Shapes of He I Line 3889 Å... Atoms, 2014, 2, 277-298.	1.6	10
87	Positron scattering on atoms and molecules. Journal of Physics: Conference Series, 2014, 488, 012052.	0.4	4
88	Relativistic convergent close-coupling calculation of inelastic scattering of electrons from cesium. Physical Review A, 2014, 89, .	2.5	7
89	Close-coupling approach to antiproton-impact breakup of molecular hydrogen. Physical Review A, 2014, 89, .	2.5	19
90	Calculation of the polarization fraction and electron-impact excitation cross section for the Cd <sup>+</sup> (5p)2P <sub>3/2</sub> state. Physical Review A, 2014, 90, .	2.5	9



#	ARTICLE	IF	CITATIONS
109	Positron scattering from argon: total cross sections and the scattering length. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 015203.	1.5	39
110	Differential cross sections and electron impact coherence parameters for elastic electron scattering from laser-excited $^{138}\text{Ba}$ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 115202.	1.5	2
111	Relativistic convergent close-coupling calculation of spin asymmetries for electron- $^{111}\text{In}$ scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 181001.	1.5	12
112	Electron excitation of the $4s^2$ state of a zinc atom. Physical Review A, 2012, 86, .	2.5	10
113	Electron scattering in hot-dense plasmas. Journal of Physics: Conference Series, 2012, 388, 042049.	0.4	0
114	RCCC calculations for electron scattering on quasi-two electron targets. Journal of Physics: Conference Series, 2012, 388, 042014.	0.4	0
115	Low energy positron scattering from krypton and xenon. Journal of Physics: Conference Series, 2012, 388, 072021.	0.4	0
116	Quantum-statistical line shape calculation for Lyman- $\hat{1}\pm$ lines in dense H plasmas. Journal of Physics: Conference Series, 2012, 397, 012021.	0.4	2
117	Differential cross-sections for the double photoionization of lithium. Journal of Physics: Conference Series, 2012, 388, 022053.	0.4	0
118	Calculations of electron scattering from cadmium. Journal of Physics: Conference Series, 2012, 388, 042026.	0.4	1
119	Convergent close coupling calculations for positron-magnesium scattering. Journal of Physics: Conference Series, 2012, 388, 072007.	0.4	0
120	Breit interaction effect on the polarization of the Lyman- $\hat{1}\pm$ $1s$ x-ray line emitted by hydrogen-like ions excited by electron impact. Journal of Physics: Conference Series, 2012, 388, 062003.	0.4	0
121	Positron scattering from noble gases. Journal of Physics: Conference Series, 2012, 388, 012020.	0.4	3
122	Two-center convergent-close-coupling calculations of positron scattering on magnesium. Physical Review A, 2012, 86, .	2.5	21
123	Fully differential cross section for single ionization in energetic C $6^+$ -He collisions. Physical Review A, 2012, 86, .	2.5	21
124	Convergent close-coupling method for positron scattering from noble gases. New Journal of Physics, 2012, 14, 035002.	2.9	35
125	( $e$ , $2e$ ) on helium: complete agreement between experiment and theory. Journal of Physics: Conference Series, 2012, 388, 042043.	0.4	0
126	Calculations of electron scattering from cadmium. Physical Review A, 2012, 85, .	2.5	12



#	ARTICLE	IF	CITATIONS
127	Relativistic convergent close-coupling method calculation of the spin polarization of electrons scattered elastically from zinc and mercury. <i>Physical Review A</i> , 2012, 85, .	2.5	16
128	$J$ -matrix calculation of electron-helium $S$ -wave scattering. II. Single ionization and single excitation. <i>Physical Review A</i> , 2012, 86, .	2.5	2
129	Nonperturbative electron-ion-scattering theory incorporating the $M$ - $\tilde{A}$ interaction. <i>Physical Review A</i> , 2012, 86, .	2.5	8
130	Relativistic convergent close-coupling calculation of spin asymmetries for electron-thallium scattering. <i>Physical Review A</i> , 2012, 86, .	2.5	5
131	Electron- and photon-impact atomic ionisation. <i>Physics Reports</i> , 2012, 520, 135-174.	25.6	127
132	Electron scattering in a helium Debye plasma. <i>Chemical Physics</i> , 2012, 398, 214-220.	1.9	23
133	Polarization of the Lyman- $\hat{1}$ X-ray line emitted by hydrogen-like Ti <sup>21+</sup> , Ar <sup>17+</sup> , and Fe <sup>25+</sup> ions excited by electron impact. This review is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. <i>Canadian Journal of Physics</i> , 2011, 89, 503-507.	1.1	6
134	Creation, destruction, and transfer of atomic multipole moments by electron scattering: relativistic treatment. This article is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. <i>Canadian Journal of Physics</i> , 2011, 89, 521-531.	1.1	3
135	Polarization and anisotropic emission of K-shell radiation from heavy few electron ions. This article is part of a Special Issue on the 10th International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas.. <i>Canadian Journal of Physics</i> , 2011, 89, 513-519.	1.1	3
136	Positron scattering from neon and argon. <i>Physical Review A</i> , 2011, 83, .	2.5	65
137	Convergent close-coupling calculations of positron-magnesium scattering. <i>Physical Review A</i> , 2011, 83, .	2.5	17
138	Low-energy positron interactions with krypton. <i>Physical Review A</i> , 2011, 83, .	2.5	39
139	Calculation of electron scattering from the ground state of ytterbium. <i>Physical Review A</i> , 2011, 83, .	2.5	14
140	Relativistic and Close-Coupling Effects in the Spin Polarization of Low-Energy Electrons Scattered Elastically from Cadmium. <i>Physical Review Letters</i> , 2011, 107, 093202.	7.8	12
141	$J$ -matrix calculation of electron-helium $S$ -wave scattering. <i>Physical Review A</i> , 2011, 84, .	2.5	6
142	Publisher's Note: Relativistic and Close-Coupling Effects in the Spin Polarization of Low-Energy Electrons Scattered Elastically from Cadmium [ <i>Phys. Rev. Lett.</i> 107 (2011), 093202]. <i>Physical Review Letters</i> , 2011, 107, .	7.8	0
143	Convergent close-coupling calculations of helium single ionization by antiproton impact. <i>Physical Review A</i> , 2011, 84, .	2.5	18
144	Close-coupling calculations of 64.6 eV e-He ionization. <i>Journal of Physics: Conference Series</i> , 2011, 288, 012002.	0.4	2

#	ARTICLE	IF	CITATIONS
145	Experimental determination of the scattering length for positron scattering from krypton. European Physical Journal D, 2011, 64, 317-321.	1.3	37
146	Electron-impact ionization of helium: A comprehensive experiment benchmarks theory. Physical Review A, 2011, 83, .	2.5	49
147	Electron-impact coherence parameters for electron-impact excitation of laser-excited $174\text{Yb}$ ( $6s6p^3P^1$ ). Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 075201.	1.5	3
148	Differential cross sections for electron-impact excitation of laser-excited $174\text{Yb}$ ( $6s6p^3P^1$ ). Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 015202.	1.5	5
149	Electron-helium scattering in Debye plasmas. Physical Review A, 2011, 84, .	2.5	32
150	Benchmark cross sections for electron-impact total single ionization of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 061001.	1.5	16
151	Differential cross sections for electron impact excitation of the $n=2$ states of helium at intermediate energies (80, 100 and 120 eV) measured across the complete angular scattering range ( $0^\circ$ – $180^\circ$ ). Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 045209.	1.5	11
152	Convergent close-coupling approach to positron and antiproton collisions with atoms. Journal of Physics: Conference Series, 2011, 262, 012028.	0.4	2
153	Low-energy positron interactions with xenon. New Journal of Physics, 2011, 13, 125004.	2.9	26
154	Benchmark Calculations of Electron-Impact Differential Cross Sections. , 2011, , .		0
155	Three-dimensional cross sections for electron impact ionization of atoms and molecules. Journal of Physics: Conference Series, 2010, 212, 012003.	0.4	2
156	A two-centre convergent close-coupling approach to positron-helium collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 031001.	1.5	21
157	Convergence study of the close-coupling approach to positron-helium collisions. Journal of Physics: Conference Series, 2010, 199, 012021.	0.4	2
158	Spin-resolved electron-impact ionisation of atoms. Journal of Physics: Conference Series, 2010, 212, 012017.	0.4	1
159	Quantum-statistical T-matrix approach to line broadening of hydrogen in dense plasmas. AIP Conference Proceedings, 2010, , .	0.4	8
160	Differential cross sections of double photoionization of lithium. Physical Review A, 2010, 82, .	2.5	8
161	Relativistic convergent close-coupling method applied to electron scattering from mercury. Physical Review A, 2010, 82, .	2.5	31
162	Tracing multiple scattering patterns in absolute $\langle \mathbf{r} \rangle$ of $\text{H}^+$ $\text{Tj}$ ET	2.5	36

#	ARTICLE	IF	CITATIONS
163	Convergent close-coupling calculations of positron scattering on metastable helium. Physical Review A, 2010, 82, .	2.5	12
164	Single ionization of helium by electron impact. Physical Review A, 2010, 81, .	2.5	22
165	Convergent-close-coupling calculations for excitation and ionization processes of electron-hydrogen collisions in Debye plasmas. Physical Review A, 2010, 82, .	2.5	61
166	Benchmark calculations for electron impact ionization and ionization-excitation of magnesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 165205.	1.5	3
167	Spin effects in double photoionization of lithium. Physical Review A, 2010, 81, .	2.5	20
168	Ionization of helium by 64.6 eV electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 074028.	1.5	6
169	A detailed study of electron impact ionization of Ne(2s) and Ar(3s). Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 125202.	1.5	6
170	Multiconfigurational two-centre convergent close-coupling approach to positron scattering on helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 125203.	1.5	33
171	Benchmark Integral Cross Sections for Electron Impact Excitation of the $n=2$ States in Helium. Plasma Science and Technology, 2010, 12, 348-352.	1.5	5
172	Relativistic convergent close-coupling method: Calculations of electron scattering from cesium. Physical Review A, 2009, 80, .	2.5	26
173	High-resolution positron scattering from helium: Grand total and positronium-formation cross sections. Physical Review A, 2009, 80, .	2.5	35
174	Fully differential cross-section measurements for electron-impact ionization of neon and xenon. Physical Review A, 2009, 79, .	2.5	30
175	Triple differential cross sections for the electron-impact ionization of helium at 102 eV incident energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145002.	1.5	32
176	Benchmark differential cross sections for electron impact excitation of the $n=2$ states in helium at near-ionization-threshold energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145202.	1.5	10
177	Electron impact ionization of ground-state and metastable Li <sup>+</sup> ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 025203.	1.5	27
178	Electron-impact ionization of B <sup>3+</sup> ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 175203.	1.5	10
179	Relativistic convergent close-coupling method: Calculation of electron scattering from hydrogenlike ions. Physical Review A, 2009, 80, .	2.5	55
180	Emission cross sections for electron-impact excitation of zinc atoms. Physical Review A, 2009, 79, .	2.5	15

#	ARTICLE	IF	CITATIONS
181	Two-electron photoionization of ground-state lithium. <i>Physical Review A</i> , 2009, 80, .	2.5	16
182	Electron scattering from atomic gallium. <i>Journal of Physics: Conference Series</i> , 2009, 185, 012008.	0.4	2
183	Relativistic Convergent Close-Coupling method for excitation and ionization processes in electron collisions with atoms and ions. <i>Journal of Physics: Conference Series</i> , 2009, 194, 042005.	0.4	1
184	Inclusion of the Breit interaction in the relativistic convergent close-coupling method. <i>Journal of Physics: Conference Series</i> , 2009, 194, 062005.	0.4	1
185	Exploring differences of atomic and molecular ionization by electron impact. <i>Journal of Physics: Conference Series</i> , 2009, 194, 052019.	0.4	0
186	Calculation of electron-impact ionization of potassium. <i>Journal of Physics: Conference Series</i> , 2009, 194, 042036.	0.4	1
187	Creation, destruction, and transfer of atomic multipole moments by electron scattering: Quantum mechanical treatment. <i>Journal of Physics: Conference Series</i> , 2009, 194, 042002.	0.4	0
188	Convergent close-coupling calculations of positron-helium collisions. <i>Journal of Physics: Conference Series</i> , 2009, 194, 072009.	0.4	1
189	Electron-impact ionisation of atoms and ions. <i>Journal of Physics: Conference Series</i> , 2009, 185, 012003.	0.4	1
190	Electron-impact excitation and ionization cross sections for ground state and excited helium atoms. <i>Atomic Data and Nuclear Data Tables</i> , 2008, 94, 603-622.	2.4	123
191	(e,2e) ionization of helium and the hydrogen molecule: signature of two-centre interference effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 025204.	1.5	74
192	Absolute cross sections for the ionization-excitation of helium by electron impact. <i>Physical Review A</i> , 2008, 78, .	2.5	28
193	Fully Relativistic Convergent Close-Coupling Method for Excitation and Ionization Processes in Electron Collisions with Atoms and Ions. <i>Physical Review Letters</i> , 2008, 100, 113201.	7.8	79
194	(e, 2e) triple differential cross-sections for ionization beyond helium: the neon case at large energy transfer. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 085205.	1.5	25
195	Calculation of electron-impact $4s \rightarrow 4p$ excitation of calcium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 145206.	1.5	4
196	Fully differential cross sections for electron-impact ionization of sodium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 215203.	1.5	14
197	Electron-impact excitation of the $2s \rightarrow 2p$ transition in helium. <i>Physical Review A</i> , 2008, 77, .	2.5	28
198	Higher-order contributions observed in three-dimensional $e^+e^-$ measurements at 1-keV impact energy. <i>Physical Review A</i> , 2008, 77, .	2.5	41

#	ARTICLE	IF	CITATIONS
199	Creation, destruction, and transfer of atomic multipole moments by electron scattering: Quantum-mechanical treatment. <i>Physical Review A</i> , 2008, 78, .	2.5	10
200	RECENT PROGRESS IN ATOMIC IONISATION THEORY. , 2008, , .		0
201	Single ionization of helium by 730 eV electrons. <i>Physical Review A</i> , 2007, 75, .	2.5	6
202	Absolute triple-differential cross sections for ionization-excitation of helium. <i>Physical Review A</i> , 2007, 76, .	2.5	13
203	Theory of Electron Impact Ionization of Atoms. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
204	( $e, e\bar{1}^3$ )-coincidence studies to determine spin-resolved Stokes parameters of the 185 nm emission line in mercury. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 2403-2410.	1.5	8
205	Single ionization of helium by 102 eV electron impact: three-dimensional images for electron emission. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 4097-4111.	1.5	64
206	Benchmark experiment and theory for near-threshold excitation of helium by electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 4179-4190.	1.5	19
207	Total polarization of the 185 nm emission line of mercury excited by electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 4435-4442.	1.5	7
208	Electron-impact ionization of helium with large energy transfer. <i>Physical Review A</i> , 2006, 74, .	2.5	3
209	CALCULATION OF IONIZATION AND EXCITATION PROCESSES USING THE CONVERGENT CLOSE-COUPLING METHOD. , 2006, , .		0
210	Electron scattering from magnesium at an incident energy of 20 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 4123-4134.	1.5	14
211	Low-energy electron-impact ionization of helium. <i>Physical Review A</i> , 2005, 72, .	2.5	25
212	Minima in generalized oscillator strengths of atomic transitions and the approach to the high-energy limit. <i>Physical Review A</i> , 2005, 71, .	2.5	5
213	Influence of long-lived metastable levels on the electron-impact single ionization of $C^{2+}$ . <i>Physical Review A</i> , 2005, 71, .	2.5	20
214	Excitations of $P^1$ levels of zinc by electron impact on the ground state. <i>Physical Review A</i> , 2005, 72, .	2.5	16
215	Electron-impact ionization of helium for equal-energy-sharing kinematics. <i>Physical Review A</i> , 2005, 71, .	2.5	75
216	Low-energy positronium-helium convergent close coupling calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, L1-L6.	1.5	36

#	ARTICLE	IF	CITATIONS
217	Convergent close-coupling calculations of positron-helium scattering at intermediate to high energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1165-1172.	1.5	23
218	On the convergence of close-coupling results for low-energy electron scattering from magnesium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 2617-2639.	1.5	34
219	Electron-impact helium double excitation within the S-wave model. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 3711-3721.	1.5	10
220	Scattering angle-integrated (total) and magnetic sublevel cross-sections and degree of linear polarization for electron and proton induced excitation [HeI ( $n=2 \rightarrow 5$ )] of helium. <i>Atomic Data and Nuclear Data Tables</i> , 2003, 83, 45-69.	2.4	1
221	Electron-impact ionization of the helium metastable $2^3S$ state. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 1663-1671.	1.5	21
222	Cross sections for electron scattering from the ground state of mercury. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 4255-4271.	1.5	36
223	Electron scattering from the ground state of mercury. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	1
224	Various problems in electron-atom collision theory. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0
225	Box-based and Laguerre-based convergent close-coupling calculations of electron-helium ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3425-3432.	1.5	4
226	Electron-impact ionization doubly differential cross sections of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2211-2227.	1.5	10
227	Orientation dependence of inelastic scattering from the laser-excited ( $6s6p^1P_1$ ) state of barium. <i>Physical Review A</i> , 2002, 66, .	2.5	7
228	Electron-impact excitation of excited atomic barium. <i>Physical Review A</i> , 2002, 65, .	2.5	9
229	Electron-helium scattering within the S-wave model. <i>Physical Review A</i> , 2002, 65, .	2.5	13
230	Electrons and photons colliding with atoms: development and application of the convergent close-coupling method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, R117-R146.	1.5	202
231	Close-coupling approach to ionization processes. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
232	Electron-photon correlations in electron-impact excitation of alkaline-earth atoms. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
233	Spectropolarimetric measurements of the extreme-ultraviolet emission from helium following $e^-$ , $H^+$ , $H_2^+$ and $H^+$ charged particle impact. <i>Physical Review A</i> , 2001, , .		4
234	Electron collisional broadening of $2s3s \rightarrow 2s3p$ lines in Be-like ions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 71, 595-607.	2.3	9

#	ARTICLE	IF	CITATIONS
235	Cross sections and collision dynamics of the excitation of $1P$ levels of helium, $n=2-5$ , by intermediate- and high-velocity electron, proton, and molecular-ion ( $H_2^+$ and $H_3^+$ ) impact. <i>Physical Review A</i> , 2001, 64, .	2.5	13
236	Polarization of Balmer- $\hat{L}$ radiation following electron impact on atomic hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 3367-3376.	1.5	10
237	Experimental and theoretical study of electron impact excitation of the $3P$ state of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 2289-2300.	1.5	2
238	Excitation of the $3P$ state of magnesium by electron impact from the ground state. <i>Physical Review A</i> , 2001, 63, .	2.5	20
239	Close-coupling approach to electron-impact ionization of helium. <i>Physical Review A</i> , 2001, 63, .	2.5	14
240	EXCITATION AND IONIZATION CROSS SECTIONS FOR HE I FROM NORMALIZED BORN AND K-MATRIX CALCULATIONS: $P^{\circ}S = 0$ TRANSITIONS FROM $n = 2, 3$ EXCITED STATES. <i>Atomic Data and Nuclear Data Tables</i> , 2000, 74, 123-153.	2.4	12
241	Calculation of electron-barium scattering. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
242	Near-threshold correlation studies of the $2P$ and $3D$ states of helium excited by electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 2571-2578.	1.5	4
243	Kinematic representation for elucidating small-angle electron scattering. <i>Physical Review A</i> , 2000, 62, .	2.5	4
244	$\{m \text{ He}\} (1, ^1\{m S\},, 2, ^3\{m S\},, 2, ^1\{m S\},, 2, ^3\{m P\} o, n, ^\{1,3\} L)$ : Thermally averaged electron collision strengths for $n \leq 5$ . <i>Astronomy and Astrophysics</i> , 2000, 146, 481-498.	2.1	36
245	Differential cross sections for electron-impact excitation out of the metastable levels of the barium atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 5123-5146.	1.5	17
246	Elastic electron scattering by laser-excited $^{138}\text{Ba}(\dots 6s6p1P1)$ atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 2801-2829.	1.5	11
247	Title is missing!. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 895-913.	1.5	27
248	Quantum-mechanical calculation of Stark widths of $\text{Ne VII } n=3, \hat{L}^{\circ} n=0$ transitions. <i>Physical Review A</i> , 1999, 59, 1890-1895.	2.5	15
249	Polarization study of the extreme-ultraviolet emission from helium following electron impact. <i>Physical Review A</i> , 1999, 60, 1187-1198.	2.5	19
250	Integral cross sections for electron scattering by ground-state Ba atoms. <i>Physical Review A</i> , 1999, 60, 4590-4599.	2.5	16
251	Electron-impact excitation of the $(\hat{L}^{\circ}   6s5d1D2)$ to $(\hat{L}^{\circ}   6s6p1P1)$ transition in barium. <i>Physical Review A</i> , 1999, 59, 439-454.	2.5	22
252	Calculation of electron scattering from the ground state of barium. <i>Physical Review A</i> , 1999, 59, 282-294.	2.5	39



#	ARTICLE	IF	CITATIONS
253	Calculation of electron-photon coincidence parameters for singlet-triplet mixed $4F$ states of helium. <i>Physical Review A</i> , 1999, 59, 1297-1302.	2.5	2
254	Electron Scattering from the Ground and Excited States of Barium. <i>Australian Journal of Physics</i> , 1999, 52, 603.	0.6	0
255	Absolute cross sections for the electron-impact ionization of helium in energy sharing kinematics at 44.6 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, 3117-3127.	1.5	23
256	Spin dependence of $(e, 2e)$ collisions on lithium at 54.4 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, 4401-4411.	1.5	21
257	Absolute triply differential $(e, 2e)$ cross sections for He in the intermediate energy region with comparison to theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L525-L531.	1.5	6
258	Elastic electron scattering by laser-excited atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L393-L400.	1.5	7
259	Low-energy electron-impact ionization of helium. <i>Physical Review A</i> , 1998, 57, R3161-R3164.	2.5	31
260	Convergent close-coupling calculation of electron-barium scattering. <i>Physical Review A</i> , 1998, 57, R3150-R3153.	2.5	8
261	Coplanar equal energy-sharing 64.6 eV $e - He$ triple differential cross sections. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, L101-L108.	1.5	47
262	Electron impact excitation of the 3D states of helium: comparison between experiment and theory at 30 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 3459-3473.	1.5	19
263	Convergent close-coupling calculations of electron - helium scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 757-785.	1.5	130
264	Absolute Triply Differential $(e, 2e)$ Cross Section Measurements for H with Comparison to Theory. <i>Physical Review Letters</i> , 1997, 79, 1666-1669.	7.8	58
265	Electron-impact excitation of helium at 26.5 eV. <i>Physical Review A</i> , 1997, 56, 4606-4611.	2.5	11
266	Convergent close-coupling calculations of electron - beryllium scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, L273-L277.	1.5	24
267	Absolute double differential cross sections for electron-impact ionization of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 1309-1322.	1.5	39
268	Convergent close-coupling calculations of electron scattering on helium-like atoms and ions: electron - beryllium scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 5895-5913.	1.5	89
269	Dyson Boson-Fermion Realization of Lie (Super)Algebras. , 1997, , 117-137.		0
270	Calculation of ionization within the close-coupling formalism. <i>Physical Review A</i> , 1996, 54, 2991-3004.	2.5	155



#	ARTICLE	IF	CITATIONS
271	Theoretical and experimental investigation of electron-helium scattering. AIP Conference Proceedings, 1996, . .	0.4	0
272	Convergent Close-Coupling Method: A "Complete Scattering Theory". Physical Review Letters, 1996, 76, 2674-2677.	7.8	64
273	Absolute triple differential cross section for electron-impact ionization of helium at 50 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L67-L73.	1.5	24
274	Calculation of orientation and alignment parameters in e-He excitation. Canadian Journal of Physics, 1996, 74, 914-919.	1.1	0
275	Absolute triple differential cross section for electron-impact ionization of helium at 40 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 2103-2114.	1.5	57
276	2 excitation of helium by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L421-L424.	1.5	14
277	Calculation of electron-helium scattering at 40 eV. Physical Review A, 1995, 51, 500-503.	2.5	19
278	Calculation of singly differential cross sections of electron-impact ionization of helium at 100 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L435-L441.	1.5	26
279	Calculation of electron scattering from the metastable states of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L197-L202.	1.5	26
280	Calculation of electron-helium scattering. Physical Review A, 1995, 52, 1279-1297.	2.5	314
281	Shape and dynamics of the 33D state of helium excited by 40 eV electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L795-L801.	1.5	18
282	Convergent close-coupling method for electron scattering on helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L421-L425.	1.5	24
283	Calculation of cross sections measured in recoil-type experiments. Physical Review A, 1994, 50, 4400-4403.	2.5	3
284	Calculation of electron scattering on excited states of sodium. Physical Review A, 1994, 49, 2667-2674.	2.5	8
285	Interacting vector boson model and of other versions of interacting boson approximations. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 1887-1901.	3.6	10
286	Calculation of electron-lithium scattering using the coupled-channel optical method. Physical Review A, 1993, 47, 1101-1110.	2.5	20
287	Calculation of electron-potassium scattering. Physical Review A, 1993, 47, 3951-3960.	2.5	12
288	Algebraic theory of the dynamical Stark-Zeeman effect for hydrogenlike atoms. Physical Review A, 1991, 44, 7414-7427.	2.5	8

#	ARTICLE	IF	CITATIONS
289	Transport of electrons and propagation of the negative ionisation fronts in indium vapour. Plasma Sources Science and Technology, 0, , .	3.1	2