

Dmitry Fursa

List of Publications by Year in descending order

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289
papers

5,346
citations

109311

35
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58
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290
all docs

290
docs citations

290
times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of electron-helium scattering. Physical Review A, 1995, 52, 1279-1297.	2.5	314
2	Electrons and photons colliding with atoms: development and application of the convergent close-coupling method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, R117-R146.	1.5	202
3	LXCat: an Openâ€Access, Webâ€Based Platform for Data Needed for Modeling Low Temperature Plasmas. Plasma Processes and Polymers, 2017, 14, 1600098.	3.0	188
4	Calculation of ionization within the close-coupling formalism. Physical Review A, 1996, 54, 2991-3004.	2.5	155
5	Convergent close-coupling calculations of electron - helium scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 757-785.	1.5	130
6	Electron- and photon-impact atomic ionisation. Physics Reports, 2012, 520, 135-174.	25.6	127
7	Electron-impact excitation and ionization cross sections for ground state and excited helium atoms. Atomic Data and Nuclear Data Tables, 2008, 94, 603-622.	2.4	123
8	Convergent close-coupling calculations of electron scattering on helium-like atoms and ions: electron - beryllium scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 5895-5913.	1.5	89
9	Fully Relativistic Convergent Close-Coupling Method for Excitation and Ionization Processes in Electron Collisions with Atoms and Ions. Physical Review Letters, 2008, 100, 113201.	7.8	79
10	Electron-impact ionization of helium for equal-energy-sharing kinematics. Physical Review A, 2005, 71, .	2.5	75
11	(e,2e) ionization of helium and the hydrogen molecule: signature of two-centre interference effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 025204.	1.5	74
12	Positron scattering from neon and argon. Physical Review A, 2011, 83, .	2.5	65
13	Convergent Close-Coupling Method: A â€Complete Scattering Theoryâ€. Physical Review Letters, 1996, 76, 2674-2677.	7.8	64
14	Single ionization of helium by 102 eV electron impact: three-dimensional images for electron emission. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4097-4111.	1.5	64
15	Convergent-close-coupling calculations for excitation and ionization processes of electron-hydrogen collisions in Debye plasmas. Physical Review A, 2010, 82, .	2.5	61
16	Electronâ€ and positronâ€ molecule scattering: development of the molecular convergent close-coupling method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 123001.	1.5	59
17	Absolute Triply Differential (e,2e) Cross Section Measurements for H with Comparison to Theory. Physical Review Letters, 1997, 79, 1666-1669.	7.8	58
18	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

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19	Relativistic convergent close-coupling method: Calculation of electron scattering from hydrogenlike ions. Physical Review A, 2009, 80, .	2.5	55
20	Electron-impact ionization of helium: A comprehensive experiment benchmarks theory. Physical Review A, 2011, 83, .	2.5	49
21	Coplanar equal energy-sharing 64.6 eV e - He triple differential cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L101-L108.	1.5	47
22	Complete Solution of Electronic Excitation and Ionization in Electron-Hydrogen Molecule Scattering. Physical Review Letters, 2016, 116, 233201.	7.8	47
23	Electron-impact excitation of molecular hydrogen. Physical Review A, 2017, 95, .	2.5	46
24	Convergent-close-coupling formalism for positron scattering from molecules. Physical Review A, 2013, 87, .	2.5	42
25	Electron scattering from the molecular hydrogen ion and its isotopologues. Physical Review A, 2014, 90, .	2.5	42
26	Higher-order contributions observed in three-dimensional $\langle \sigma_{\text{ion}}(E) \rangle = \langle \sigma_{\text{ion}}^{\text{H}}(E) \rangle + \langle \sigma_{\text{ion}}^{\text{He}}(E) \rangle + \langle \sigma_{\text{ion}}^{\text{H}_2} \rangle + \langle \sigma_{\text{ion}}^{\text{He}_2} \rangle + \langle \sigma_{\text{ion}}^{\text{H}_2\text{He}} \rangle + \langle \sigma_{\text{ion}}^{\text{He}_2\text{He}} \rangle + \dots$ measurements at 1-keV impact energy. Physical Review A, 2008, 77, .	2.5	41
27	Non-LTE analysis of K I in late-type stars. Astronomy and Astrophysics, 2019, 627, A177.	5.1	41
28	Absolute double differential cross sections for electron-impact ionization of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 1309-1322.	1.5	39
29	Calculation of electron scattering from the ground state of barium. Physical Review A, 1999, 59, 282-294.	2.5	39
30	Low-energy positron interactions with krypton. Physical Review A, 2011, 83, .	2.5	39
31	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
32	Experimental determination of the scattering length for positron scattering from krypton. European Physical Journal D, 2011, 64, 317-321.	1.3	37
33	Cross sections for electron scattering from the ground state of mercury. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4255-4271.	1.5	36
34	Low-energy positron-helium convergent close coupling calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L1-L6.	1.5	36
35	Tracing multiple scattering patterns in absolute $\langle \sigma_{\text{ion}}(E) \rangle = \langle \sigma_{\text{ion}}^{\text{H}}(E) \rangle + \langle \sigma_{\text{ion}}^{\text{He}}(E) \rangle + \langle \sigma_{\text{ion}}^{\text{H}_2} \rangle + \langle \sigma_{\text{ion}}^{\text{He}_2} \rangle + \langle \sigma_{\text{ion}}^{\text{H}_2\text{He}} \rangle + \langle \sigma_{\text{ion}}^{\text{He}_2\text{He}} \rangle + \dots$ Tj ET	2.5	36
36	$\sigma_{\text{ion}}^{\text{He}}(E) = \sigma_{\text{ion}}^{\text{He}}(E) + \sigma_{\text{ion}}^{\text{He}_2}(E) + \sigma_{\text{ion}}^{\text{He}_2\text{He}}(E) + \dots$ Thermally averaged electron collision strengths for $n \leq 5$. Astronomy and Astrophysics, 2000, 146, 481-498.	2.1	36

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37	High-resolution positron scattering from helium: Grand total and positronium-formation cross sections. <i>Physical Review A</i> , 2009, 80, .	2.5	35
38	Convergent close-coupling method for positron scattering from noble gases. <i>New Journal of Physics</i> , 2012, 14, 035002.	2.9	35
39	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
40	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
41	Multiconfigurational two-centre convergent close-coupling approach to positron scattering on helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 125203.	1.5	33
42	Polarization of Lyman- α 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
43	Triple differential cross sections for the electron-impact ionization of helium at 102 eV incident energy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 145002.	1.5	32
44	Electron-helium scattering in Debye plasmas. <i>Physical Review A</i> , 2011, 84, .	2.5	32
45	Low-energy electron-impact ionization of helium. <i>Physical Review A</i> , 1998, 57, R3161-R3164.	2.5	31
46	Relativistic convergent close-coupling method applied to electron scattering from mercury. <i>Physical Review A</i> , 2010, 82, .	2.5	31
47	Fully differential cross-section measurements for electron-impact ionization of neon and xenon. <i>Physical Review A</i> , 2009, 79, .	2.5	30
48	Absolute cross sections for the ionization-excitation of helium by electron impact. <i>Physical Review A</i> , 2008, 78, .	2.5	28
49	Electron-impact excitation of the $1s^2$ state of helium. <i>Physical Review A</i> , 2008, 77, .	2.5	28
50	Title is missing!. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 895-913.	1.5	27
51	Electron impact ionization of ground-state and metastable Li ⁺ ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 025203.	1.5	27
52	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	2.5	27
53	Calculation of singly differential cross sections of electron-impact ionization of helium at 100 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, L435-L441.	1.5	26
54	Calculation of electron scattering from the metastable states of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, L197-L202.	1.5	26

#	ARTICLE	IF	CITATIONS
55	Relativistic convergent close-coupling method: Calculations of electron scattering from cesium. Physical Review A, 2009, 80, .	2.5	26
56	Low-energy positron interactions with xenon. New Journal of Physics, 2011, 13, 125004.	2.9	26
57	Target Structure-Induced Suppression of the Ionization Cross Section for Low-Energy Antiproton-Molecular Hydrogen Collisions: Theoretical Confirmation. Physical Review Letters, 2013, 111, 173201.	7.8	26
58	Low-energy electron-impact ionization of helium. Physical Review A, 2005, 72, .	2.5	25
59	(e, 2e) triple differential cross-sections for ionization beyond helium: the neon case at large energy transfer. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085205.	1.5	25
60	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
61	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
62	Convergent close-coupling calculations of electron - beryllium scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L273-L277.	1.5	24
63	Two-center close-coupling calculations of positron-molecular-hydrogen scattering. Physical Review A, 2015, 92, .	2.5	24
64	Electron-impact dissociation of molecular hydrogen into neutral fragments. European Physical Journal D, 2018, 72, 1.	1.3	24
65	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: I. Fully vibrationally-resolved electronic excitation of H		

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73	Spin dependence of (e, 2e) collisions on lithium at 54.4 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4401-4411.	1.5	21
74	Electron-impact ionization of the helium metastable 23S state. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1663-1671.	1.5	21
75	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
76	Two-center convergent-close-coupling calculations of positron scattering on magnesium. Physical Review A, 2012, 86, .	2.5	21
77	Fully differential cross section for single ionization in energetic C $\times\text{He}$ collisions. Physical Review A, 2012, 86, .	2.5	21
78	Calculation of electron-lithium scattering using the coupled-channel optical method. Physical Review A, 1993, 47, 1101-1110.	2.5	20
79	Excitation of the 31P state of magnesium by electron impact from the ground state. Physical Review A, 2001, 63, .	2.5	20
80	Influence of long-lived metastable levels on the electron-impact single ionization of C ²⁺ . Physical Review A, 2005, 71, .	2.5	20
81	Spin effects in double photoionization of lithium. Physical Review A, 2010, 81, .	2.5	20
82	Calculation of electron-helium scattering at 40 eV. Physical Review A, 1995, 51, 500-503.	2.5	19
83	Electron impact excitation of the 3D states of helium: comparison between experiment and theory at 30 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 3459-3473.	1.5	19
84	Polarization study of the extreme-ultraviolet emission from helium following electron impact. Physical Review A, 1999, 60, 1187-1198.	2.5	19
85	Benchmark experiment and theory for near-threshold excitation of helium by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4179-4190.	1.5	19
86	Close-coupling approach to antiproton-impact breakup of molecular hydrogen. Physical Review A, 2014, 89, .	2.5	19
87	Low energy electron scattering from molecular hydrogen: Excitation of the $X^1\Sigma^+$ state. Physical Review A, 2014, 89, .	2.5	19
88	Cosmic rays in molecular clouds probed by H ₂ rovibrational lines. Astronomy and Astrophysics, 2022, 658, A189.	5.1	19
89	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
90	Convergent close-coupling calculations of helium single ionization by antiproton impact. Physical Review A, 2011, 84, .	2.5	18

91	Inelastic e+Mg collision data and its impact on modelling stellar and supernova spectra. Astronomy and Astrophysics, 2017, 606, A11.	5.1	18
92	Low-energy electron-impact dissociative excitation of molecular hydrogen and its isotopologues. Physical Review A, 2017, 96, .	2.5	18
93	Differential cross sections for electron-impact excitation out of the metastable levels of the barium atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 5123-5146.	1.5	17
94	Convergent close-coupling calculations of positron-magnesium scattering. Physical Review A, 2011, 83, .	2.5	17
95	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. Physical Review A, 2015, 92, .	2.5	17
96	Integral cross sections for electron scattering by ground-state Ba atoms. Physical Review A, 1999, 60, 4590-4599.	2.5	16
97	Excitations of P1 levels of zinc by electron impact on the ground state. Physical Review A, 2005, 72, .	2.5	16
98	Two-electron photoionization of ground-state lithium. Physical Review A, 2009, 80, .	2.5	16
99	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
100	Relativistic convergent close-coupling method calculation of the spin polarization of electrons scattered elastically from zinc and mercury. Physical Review A, 2012, 85, .	2.5	16
101	Calculations of electron scattering from H $\sum_{n=1}^{\infty} \frac{1}{n^2} \left(\frac{1}{n} + \frac{1}{n^2} \right)$	2.5	16
102	Double K α in electron-impact single ionization of metastable two-electron N $\sum_{n=1}^{\infty} \frac{1}{n^2} \left(\frac{1}{n} + \frac{1}{n^2} \right)$		

#	ARTICLE	IF	CITATIONS
109	Time-of-flight electron scattering from molecular hydrogen: Benchmark cross sections for excitation of the $X^1\Sigma_g^+ \leftarrow b^3\Sigma_u^+$ transition. Physical Review A, 2018, 97, .	2.5	15
110	Convergent close-coupling calculations of electrons scattering on electronically excited molecular hydrogen. Physical Review A, 2021, 103, .	2.5	15
111	2 excitation of helium by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L421-L424.	1.5	14
112	Close-coupling approach to electron-impact ionization of helium. Physical Review A, 2001, 63, .	2.5	14
113	Electron scattering from magnesium at an incident energy of 20 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 4123-4134.	1.5	14
114	Fully differential cross sections for electron-impact ionization of sodium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 215203.	1.5	14
115	Calculation of electron scattering from the ground state of ytterbium. Physical Review A, 2011, 83, .	2.5	14
116	Antiproton stopping in H_2 . Physical Review A, 2015, 92, .	2.5	14
117	Near-Threshold Cross Sections for Electron and Positron Impact Ionization of Atomic Hydrogen. Physical Review Letters, 2018, 121, 203401.	7.8	14
118	Cross sections and collision dynamics of the excitation of $1snp$ levels of helium, $n=2-5$, by intermediate- and high-velocity electron, proton, and molecular-ion (H_2^+ and H_3^+) impact. Physical Review A, 2001, 64, .	2.5	13
119	Electron-helium scattering within the S -wave model. Physical Review A, 2002, 65, .	2.5	13
120	Absolute triple-differential cross sections for ionization-excitation of helium. Physical Review A, 2007, 76, .	2.5	13
121	Antiproton-impact ionization of Ne, Ar, Kr, Xe, and H_2O . Physical Review A, 2015, 91, .	2.5	13
122	Kinetic-energy release of fragments from electron-impact dissociation of the molecular hydrogen ion and its isotopologues. Physical Review A, 2017, 96, .	2.5	13
123	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. Astrophysical Journal, 2017, 851, 64.	4.5	13
124	Electron-impact dissociative excitation cross sections for singlet states of molecular hydrogen. Physical Review A, 2018, 98, .	2.5	13
125	Vibrationally resolved electron-impact excitation cross sections for singlet states of molecular hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 144007.	1.5	13
126	Calculation of electron-potassium scattering. Physical Review A, 1993, 47, 3951-3960.	2.5	12

#	ARTICLE	IF	CITATIONS
127	EXCITATION AND IONIZATION CROSS SECTIONS FOR HE I FROM NORMALIZED BORN AND K-MATRIX CALCULATIONS: $l^{\prime}S = 0$ TRANSITIONS FROM $n = 2, 3$ EXCITED STATES. Atomic Data and Nuclear Data Tables, 2000, 74, 123-153.	2.4	12
128	Convergent close-coupling calculations of positron scattering on metastable helium. Physical Review A, 2010, 82, .	2.5	12
129	Relativistic and Close-Coupling Effects in the Spin Polarization of Low-Energy Electrons Scattered Elastically from Cadmium. Physical Review Letters, 2011, 107, 093202.	7.8	12
130	Relativistic convergent close-coupling calculation of spin asymmetries for electron-lead scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 181001.	1.5	12
131	Calculations of electron scattering from cadmium. Physical Review A, 2012, 85, .	2.5	12
132	Vibrational excitation of the $\{m\{H\}\}_2X^1\{\{m\{\Sigma\}\}_g^+\}$ state via electron-impact excitation and radiative cascade. Plasma Sources Science and Technology, 2019, 28, 025004.	3.1	12
133	Electron-impact excitation of helium at 26.5 eV. Physical Review A, 1997, 56, 4606-4611.	2.5	11
134	Elastic electron scattering by laser-excited ^{138}Ba (... $6s6p1P1$) atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 2801-2829.	1.5	11
135	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
136	Calculation of the relativistic rise in electron-impact-excitation cross sections for highly charged ions. Physical Review A, 2013, 88, .	2.5	11
137	Calculation of the polarization of light emitted during electron-impact excitation of Ba^+ . Physical Review A, 2014, 89, .	2.5	11
138	Ionization amplitudes in electron-hydrogen collisions. Physical Review A, 2014, 90, .	2.5	11
139	Solving close-coupling equations in momentum space without singularities. Computer Physics Communications, 2015, 196, 276-279.	7.5	11
140	Electron-scattering on molecular hydrogen: convergent close-coupling approach. European Physical Journal D, 2020, 74, 1.	1.3	11
141	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: II. Fully vibrationally-resolved electronic excitation of the isotopologues of H_2 ($X^1\Sigma_g^+$). Atomic Data and Nuclear Data Tables, 2021, 139, 101403.	2.4	11
142	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
143	Polarization of Balmer- β radiation following electron impact on atomic hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3367-3376.	1.5	10
144	Electron-impact ionization doubly differential cross sections of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2211-2227.	1.5	10

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145	Electron-impact helium double excitation within the S-wave model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3711-3721.	1.5	10
146	Creation, destruction, and transfer of atomic multipole moments by electron scattering: Quantum-mechanical treatment. Physical Review A, 2008, 78, .	2.5	10
147	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
148	Electron-impact ionization of B^{3+} ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 175203.	1.5	10
149	Electron excitation of the $4s^2$ state of a zinc atom. Physical Review A, 2012, 86, .	2.5	10
150	Spectral Line Shapes of He I Line 3889 Å.... Atoms, 2014, 2, 277-298.	1.6	10
151	Solving close-coupling equations in momentum space without singularities II. Computer Physics Communications, 2016, 203, 147-151.	7.5	10
152	Differential cross sections for excitation of H^{2-} by low-energy electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 225203.	1.5	10
153	Electron collisional broadening of $2s3s \rightarrow 2s3p$ lines in Be-like ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 71, 595-607.	2.3	9
154	Electron-impact excitation of excited atomic barium. Physical Review A, 2002, 65, .	2.5	9
155	Calculation of the polarization fraction and electron-impact excitation cross section for the $Cd^{+}(5p)2P_{3/2}$ state. Physical Review A, 2014, 90, .	2.5	9
156	Indirect contributions to electron-impact ionization of $Li^{+}(1s2sS_{13})$ ions: Role of intermediate double- K -vacancy states. Physical Review A, 2018, 97, .	2.5	9
157	Laser-driven production of the antihydrogen molecular ion. Physical Review A, 2019, 100, .	2.5	9
158	Recommended electron-impact excitation and ionization cross sections for Be I. Atomic Data and Nuclear Data Tables, 2019, 127-128, 1-21.	2.4	9
159	Algebraic theory of the dynamical Stark-Zeeman effect for hydrogenlike atoms. Physical Review A, 1991, 44, 7414-7427.	2.5	8
160	Calculation of electron scattering on excited states of sodium. Physical Review A, 1994, 49, 2667-2674.	2.5	8
161	Convergent close-coupling calculation of electron-barium scattering. Physical Review A, 1998, 57, R3150-R3153.	2.5	8
162	$(e, e\hat{f}^3)$ -coincidence studies to determine spin-resolved Stokes parameters of the 185 nm emission line in mercury. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 2403-2410.	1.5	8

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163	Quantum-statistical T-matrix approach to line broadening of hydrogen in dense plasmas. AIP Conference Proceedings, 2010, , .	0.4	8
164	Differential cross sections of double photoionization of lithium. Physical Review A, 2010, 82, .	2.5	8
165	Nonperturbative electron-ion-scattering theory incorporating the M<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\tilde{A}_γ</math>ller interaction. Physical Review A, 2012, 86, .	2.5	8
166	Comment I on "Topological angular momentum in electron exchange excitation of a single atom". Physical Review A, 2013, 87, .	2.5	8
167	Electron mass stopping power in H ₂ . Physical Review A, 2017, 96, .	2.5	8
168	Calculation of electron scattering on atomic silver. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 085203.	1.5	8
169	Efficient calculation of Rayleigh and Raman scattering. Physical Review A, 2018, 98, .	2.5	8
170	Isotopic and vibrational-level dependence of <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block"><math>H₂</math></math> dissociation by electron impact. Physical Review A, 2021, 103, .	2.5	8
171	Elastic electron scattering by laser-excited atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L393-L400.	1.5	7
172	Orientation dependence of inelastic scattering from the laser-excited (6s6p ¹ P ₁) state of barium. Physical Review A, 2002, 66, .	2.5	7
173	Total polarization of the 185 nm emission line of mercury excited by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4435-4442.	1.5	7
174	Relativistic convergent close-coupling calculation of inelastic scattering of electrons from cesium. Physical Review A, 2014, 89, .	2.5	7
175	Antiproton stopping power data for radiation therapy simulations. Physica Medica, 2016, 32, 1827-1832.	0.7	7
176	Solving close-coupling equations in momentum space without singularities for charged targets. Computer Physics Communications, 2017, 212, 55-58.	7.5	7
177	Positron-impact electronic excitations and mass stopping power of <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block"><math>H₂</math></math>. Physical Review A, 2019, 99, .	2.5	7
178	Absolute triply differential (e,2e) cross sections for He in the intermediate energy region with comparison to theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L525-L531.	1.5	6
179	Single ionization of helium by 730 eV electrons. Physical Review A, 2007, 75, .	2.5	6
180	Ionization of helium by 64.6 eV electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 074028.	1.5	6

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181	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
182	Polarization of the Lyman- α X-ray line emitted by hydrogen-like Ti ²¹⁺ , Ar ¹⁷⁺ , and Fe ²⁵⁺ 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.. Canadian Journal of Physics, 2011, 89, 503-507.	1.1	6
183	J-matrix calculation of electron-helium S-wave scattering. Physical Review A, 2011, 84, .	2.5	6
184	Plasma pressure broadening for few-electron emitters including strong electron collisions within a quantum-statistical theory. Physical Review E, 2014, 89, 023106.	2.1	6
185	Calculation of electron-impact ionization of Mg and Al^{1+} . Physical Review A, 2015, 92, .	2.5	6
186	Spin asymmetry in electron-impact ionization. Physical Review A, 2019, 100, .	2.5	6
187	Electron-Impact Dissociation of Vibrationally-Excited Molecular Hydrogen into Neutral Fragments. Atoms, 2019, 7, 75.	1.6	6
188	Cross sections for electron scattering from atomic lead. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 015204.	1.5	6
189	Recommended Cross Sections for Electron-Indium Scattering. Journal of Physical and Chemical Reference Data, 2021, 50, .	4.2	6
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