Igor Bray

List of Publications by Year in descending order

562	12,205	36303 51	58581 82
papers	citations	h-index	g-index

567	567	567	2666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cosmic rays in molecular clouds probed by H₂ rovibrational lines. Astronomy and Astrophysics, 2022, 658, A189.	5.1	19
2	Effective one-electron approach to proton collisions with molecular hydrogen. European Physical Journal D, 2022, 76, 1.	1.3	12
3	Taking the Convergent Close-Coupling Method beyond Helium: The Utility of the Hartree-Fock Theory. Atoms, 2022, 10, 22.	1.6	3
4	State-selective electron capture in collisions of fully stripped neon ions with ground-state hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 115201.	1.5	7
5	Anisotropic angular scattering models of elastic electron-neutral collisions for Monte Carlo plasma simulations. Plasma Sources Science and Technology, 2022, 31, 065013.	3.1	2
6	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: I. Fully vibrationally-resolved electronic excitation of H<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	Dipole polarization fractions of Fulcher- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> fluorescence in electron collisions with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review A, 2021, 104, .	2.5	2
20	Time delay in two-electron photodetachment and tests of fundamental threshold laws. Physical Review Research, 2021, 3, .	3.6	4
21	Effective single-electron treatment of ion collisions with multielectron targets without using the independent-event model. Physical Review A, 2021, 104, .	2.5	10
22	Photoionization, Rayleigh, and Raman scattering cross sections for the alkali atoms. Atomic Data and Nuclear Data Tables, 2021, 143, 101474.	2.4	1
23	Calculation of the single differential cross section for electron-impact ionization of atoms and molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 015205.	1.5	4
24	Electronic and Vibrational Close-Coupling Method for Resonant Electron-Molecule Scattering. Physical Review Letters, 2021, 127, 223401.	7.8	5
25	Proton-helium collisions at intermediate energies: Singly differential ionization cross sections. Physical Review A, 2021, 104, .	2.5	16
26	All-Order Full-Coulomb Quantum Spectral Line-Shape Calculations. Physical Review Letters, 2021, 127, 235001.	7.8	13
27	Collisions of antiprotons with excited positronium atoms. Physical Review A, 2021, 104, .	2.5	5
28	Cross sections for electron scattering from atomic lead. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 015204.	1.5	6
29	Calculations of positron scattering on the hydrogen molecular ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 015203.	1.5	5
30	Rayleigh and Raman Scattering from Alkali Atoms. Atoms, 2020, 8, 57.	1.6	4
31	Configuration space method to calculate rearrangement matrix elements. Journal of Physics: Conference Series, 2020, 1412, 222004.	0.4	0
32	Convergent close-coupling calculations of positron collisions with the hydrogen negative ion. Journal of Physics: Conference Series, 2020, 1412, 222005.	0.4	0
33	Proton scattering from ground and excited states of atomic hydrogen. Journal of Physics: Conference Series, 2020, 1412, 152031.	0.4	0
34	Electron-impact excitation of the (5s25p) P1/22â†'(5s26s) S1/22 transition in indium: Theory and experiment. Physical Review A, 2020, 102, .	2.5	5
35	Singly differential cross sections for direct scattering, electron capture, and ionization in proton-hydrogen collisions. Physical Review A, 2020, 102, .	2.5	10
36	Differential cross sections for ionisation of helium by proton impact. Journal of Physics: Conference Series, 2020, 1412, 152045.	0.4	0

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37	Coupled-channel calculations of ionisation of atomic hydrogen by multiply-charged bare ions. Journal of Physics: Conference Series, 2020, 1412, 162008.	0.4	0
38	Charge transfer in positroniumâ€“proton collisions: comparison of classical and quantum-mechanical theories. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 155201.	1.5	5
39	Effect of Electron Capture on Spectral Line Broadening in Hot Dense Plasmas. Physical Review Letters, 2020, 124, 055003.	7.8	16
40	Electron-scattering on molecular hydrogen: convergent close-coupling approach. European Physical Journal D, 2020, 74, 1.	1.3	11
41	Calculations of electron scattering on H-like ions. Physical Review A, 2020, 101, .	2.5	3
42	Benchmark calculations of electron impact electronic excitation of the hydrogen molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 145204.	1.5	22
43	One-center close-coupling approach to two-center rearrangement collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 145201.	1.5	15
44	Atomic and Molecular Scattering Applications in an Apache Airavata Science Gateway. , 2020, , .		3
45	Effect of cascade transitions on the polarization of light emitted after electron-impact excitation of Zn by spin-polarized electrons. Physical Review A, 2019, 100, .	2.5	2
46	Non-LTE analysis of K I in late-type stars. Astronomy and Astrophysics, 2019, 627, A177.	5.1	41
47	Electron capture, excitation and ionization in He²⁺â€“H and H⁺â€“He⁺ collisions. Plasma Physics and Controlled Fusion, 2019, 61, 095005.	2.1	20
48	Spin asymmetry in electron-impact ionization. Physical Review A, 2019, 100, .	2.5	6
49	Roadmap on photonic, electronic and atomic collision physics: II. Electron and antimatter interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171002.	1.5	22
50	Convergent close-coupling calculations of positron scattering on Hâ¯. Physical Review A, 2019, 100, .	2.5	2
51	Laser-driven production of the antihydrogen molecular ion. Physical Review A, 2019, 100, .	2.5	9
52	Electron-Impact Dissociation of Vibrationally-Excited Molecular Hydrogen into Neutral Fragments. Atoms, 2019, 7, 75.	1.6	6
53	Vibrational excitation of the ${{m{H}}}_{2}X{}^{1}{{m{Sigma }}}_{g}^{+}$ state via electron-impact excitation and radiative cascade. Plasma Sources Science and Technology, 2019, 28, 025004.	3.1	12
54	Configuration space method to calculate rearrangement matrix elements. Computer Physics Communications, 2019, 239, 64-71.	7.5	4

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55	Wave-packet continuum-discretization approach to proton collisions with helium. Physical Review A, 2019, 99, .	2.5	24
56	Positron-impact electronic excitations and mass stopping power of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review A, 2019, 99, .	2.5	7
57	Development of convergent close-coupling approach to hadron interactions with matter. Journal of Physics: Conference Series, 2019, 1154, 012013.	0.4	1
58	Balmer emission induced by proton impact on atomic hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 105701.	1.5	14
59	Proton-beam stopping in hydrogen. Physical Review A, 2019, 99, .	2.5	10
60	Fully differential cross sections for single ionization of helium by energetic protons. Physical Review A, 2019, 100, .	2.5	17
61	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
62	State-of-the-Art Reviews on Energetic Ion-Atom and Ion-Molecule Collisions. Interdisciplinary Research on Particle Collisions and Quantitative Spectroscopy, 2019, , .	0.5	17
63	The stopping power of hydrogen for protons and antiprotons. Interdisciplinary Research on Particle Collisions and Quantitative Spectroscopy, 2019, , 227-254.	0.5	1
64	Calculation of electron scattering on atomic silver. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 085203.	1.5	8
65	Indirect contributions to electron-impact ionization of Li+ (1s2sS13) ions: Role of intermediate double- K -vacancy states. Physical Review A, 2018, 97, .	2.5	9
66	Electron-impact coherence parameters for 4¹P₁excitation of zinc. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 085002.	1.5	4
67	Two-center convergent close-coupling approach to positronâ€“helium-ion collisions. Physical Review A, 2018, 97, .	2.5	7
68	Electron-impact dissociation of molecular hydrogen into neutral fragments. European Physical Journal D, 2018, 72, 1.	1.3	24
69	Wave-packet continuum-discretization approach to ion-atom collisions including rearrangement: Application to differential ionization in proton-hydrogen scattering. Physical Review A, 2018, 97, .	2.5	45
70	Near-Threshold Cross Sections for Electron and Positron Impact Ionization of Atomic Hydrogen. Physical Review Letters, 2018, 121, 203401.	7.8	14
71	Theoretical study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>+</mml:mo><mml:mi>d</mml:mi><mml:mo></mml:mo><mml:mn>6</mml:mn></mml:mmultiscripts></mml:mrow><mml:mo>+</mml:mo><mml:mi>Î³</mml:mi></mml:math> astrophysical capture process in a three-body model. # Reaction rates and primordial abundance.	2.9	21
72	Low-energy electron scattering from molecular hydrogen: Excitation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mspace width="0.16em" /><mml:msup><mml:mrow /><mml:mn>1</mml:mn></mml:msup><mml:msup><mml:mrow><mml:msub><mml:mi mathvariant="normal">Î£</mml:mi><mml:mi>g</mml:mi></mml:msub></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:mrow> to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>b</mml:mi><	2.5	19

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73	Ionization and electron capture in collisions of bare carbon ions with hydrogen. Physical Review A, 2018, 98, .	2.5	20
74	Antihydrogen formation in low-energy antiproton collisions with excited-state positronium atoms. Hyperfine Interactions, 2018, 239, 1.	0.5	3
75	Efficient calculation of Rayleigh and Raman scattering. Physical Review A, 2018, 98, .	2.5	8
76	Electron-impact dissociative excitation cross sections for singlet states of molecular hydrogen. Physical Review A, 2018, 98, .	2.5	13
77	Time-of-flight electron scattering from molecular hydrogen: Benchmark cross sections for excitation of the X1Î£g+â†'b3Î£u+ transition. Physical Review A, 2018, 97, .	2.5	15
78	Proton scattering from excited states of atomic hydrogen. Plasma Physics and Controlled Fusion, 2018, 60, 095009.	2.1	24
79	Convergent close-coupling approach to positron scattering on He+. European Physical Journal D, 2018, 72, 1.	1.3	3
80	Comparison of experiment and theory for superelastic electron-collision studies from laser-aligned magnesium. Physical Review A, 2018, 98, .	2.5	2
81	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
82	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
83	Hybrid approach to calculating proton stopping power in hydrogen. Journal of Physics: Conference Series, 2017, 777, 012010.	0.4	4
84	Inelastic e+Mg collision data and its impact on modelling stellar and supernova spectra. Astronomy and Astrophysics, 2017, 606, A11.	5.1	18
85	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. Physical Review A, 2017, 95, .	2.5	27
86	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
87	Differential cross sections for excitation of H₂by low-energy electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 225203.	1.5	10
88	Calculation of atomic photoionization using the nonsingular convergent close-coupling method. Physical Review A, 2017, 95, .	2.5	1
89	Electron mass stopping power in H2. Physical Review A, 2017, 96, .	2.5	8
90	Convergent close-coupling approach to light and heavy projectile scattering on atomic and molecular hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 202001.	1.5	34

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91	Article two-body model for spectra of clusters of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">H</mml:mi><mml:mrow /></mml:mrow><mml:mprescripts /><mml:none /><mml:mn>2</mml:mn></mml:mmultiscripts><mml:mo>,</mml:mo><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">H</mml:mi><mml:mrow /></mml:mrow><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts><mml:mo>,</mml:mo><mml:mmultiscripts><mml:mi mathv	2.9	6
92	Wave-packet continuum-discretization approach to single ionization of helium by antiprotons and energetic protons. Physical Review A, 2017, 96, .	2.5	27
93	Quantum suppression of antihydrogen formation in positronium-antiproton scattering. Nature Communications, 2017, 8, 1544.	12.8	25
94	Electron-impact excitation of molecular hydrogen. Physical Review A, 2017, 95, .	2.5	46
95	Solving close-coupling equations in momentum space without singularities for charged targets. Computer Physics Communications, 2017, 212, 55-58.	7.5	7
96	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
97	Low-energy electron-impact dissociative excitation of molecular hydrogen and its isotopologues. Physical Review A, 2017, 96, .	2.5	18
98	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. Astrophysical Journal, 2017, 851, 64.	4.5	13
99	Low-energyl-mixing collisions of excited positronium with protons and antiprotons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 134001.	1.5	3
100	Role of Target Resonances In Low-energy nucleon and Î± Interactions with Weakly-bound Nuclei. , 2017, , .		0
101	Solution of the proton-hydrogen scattering problem using a quantum-mechanical two-center convergent close-coupling method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 115203.	1.5	46
102	Attosecond Time Delay in Photoemission and Electron Scattering near Threshold. Physical Review Letters, 2016, 117, 143202.	7.8	14
103	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	2.6	101
104	Near-threshold behavior of positronium-antiproton scattering. Physical Review A, 2016, 94, .	2.5	20
105	Calculations of electron-impact ionisation of ${mathrm{Fe}}^{25+}$ and ${mathrm{Fe}}^{24+}$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 184001.	1.5	2
106	Structure of²³Al from a multi-channel algebraic scattering model based on mirror symmetry. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 095104.	3.6	7
107	Importance of resonance widths in low-energy scattering of weakly bound light-mass nuclei. Physical Review C, 2016, 94, .	2.9	7
108	Wave-packet continuum-discretization approach to ion-atom collisions: Nonrearrangement scattering. Physical Review A, 2016, 94, .	2.5	40

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109	Heating due to momentum transfer in low-energy positronium-antiproton scattering. Physical Review A, 2016, 94, .	2.5	12
110	Calculation of antihydrogen formation via antiproton scattering with excited positronium. Physical Review A, 2016, 93, .	2.5	36
111	Polarization of Lyman-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>emission in proton-hydrogen collisions studied using a semiclassical two-center convergent close-coupling approach. Physical Review A, 2016, 93, .	2.5	33
112	Complete Solution of Electronic Excitation and Ionization in Electron-Hydrogen Molecule Scattering. Physical Review Letters, 2016, 116, 233201.	7.8	47
113	Theoretical study of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>+</mml:mo><mml:mi>d</mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><mml:mo>+</mml:mo><mml:mi>Î³</mml:mi> capture process in a three-body model. Physical Review C, 2016, 94, .	2.9	25
114	Calculations for electron-impact excitation and ionization of beryllium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 235701.	1.5	15
115	Recent progress in the description of positron scattering from atoms using the convergent close-coupling theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 222002.	1.5	58
116	Antiproton stopping power data for radiation therapy simulations. Physica Medica, 2016, 32, 1827-1832.	0.7	7
117	Solving close-coupling equations in momentum space without singularities II. Computer Physics Communications, 2016, 203, 147-151.	7.5	10
118	Internal consistency in the close-coupling approach to positron collisions with atoms. European Physical Journal D, 2016, 70, 1.	1.3	16
119	Accurate solution of the protonâ€“hydrogen three-body scattering problem. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 03LT01.	1.5	16
120	41P1Zn excitation by 80-eV electrons. Physical Review A, 2015, 91, .	2.5	4
121	Calculation of electron-impact ionization of Mg and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mo>+</mml Physical Review A, 2015, 92, .	2.5	6
122	Antiproton stopping in atomic targets. Physical Review A, 2015, 92, .	2.5	22
123	Convergent close coupling versus the generalized Sturmian function approach: Wave-function analysis. Physical Review A, 2015, 92, .	2.5	4
124	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. Physical Review A, 2015, 92, .	2.5	17
125	Antiproton stopping in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn Physical Review A, 2015, 92, .	2.5	14
126	Two-center close-coupling calculations of positronâ€“molecular-hydrogen scattering. Physical Review A, 2015, 92, .	2.5	24

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127	Accurate stopping power calculations for antiprotons and protons. Journal of Physics: Conference Series, 2015, 635, 022034.	0.4	0
128	Enhancement of antihydrogen formation in antiproton collisions with excited-state positronium. Journal of Physics: Conference Series, 2015, 635, 022008.	0.4	0
129	Ionisation of noble gas atoms and H2O by antiproton impact. Journal of Physics: Conference Series, 2015, 635, 022032.	0.4	0
130	Fully quantum-mechanical treatment of proton-hydrogen scattering. Journal of Physics: Conference Series, 2015, 635, 022100.	0.4	1
131	Calculations of electron and positron scattering from vibrationally excited H2+ and H2. Journal of Physics: Conference Series, 2015, 635, 072047.	0.4	0
132	Convergent calculations of positron scattering from molecular hydrogen. Journal of Physics: Conference Series, 2015, 635, 012009.	0.4	5
133	e-Zn inelastic scattering at 80 eV. Journal of Physics: Conference Series, 2015, 635, 092102.	0.4	0
134	Antihydrogen Formation via Antiproton Scattering with Excited Positronium. Physical Review Letters, 2015, 114, 183201.	7.8	53
135	Sudden perturbation approximations for interaction of atoms with intense ultrashort electromagnetic pulses. European Physical Journal D, 2015, 69, 1.	1.3	5
136	Internal consistency in positron-hydrogen-scattering calculations. Physical Review A, 2015, 91, .	2.5	19
137	Antiproton-impact ionization of Ne, Ar, Kr, Xe, andH2O. Physical Review A, 2015, 91, .	2.5	13
138	Electron collisions with beryllium and its ions. Journal of Physics: Conference Series, 2015, 576, 012001.	0.4	4
139	Solving close-coupling equations in momentum space without singularities. Computer Physics Communications, 2015, 196, 276-279.	7.5	11
140	Spectral Line Shapes of He I Line 3889 Ã.... Atoms, 2014, 2, 277-298.	1.6	10
141	Positron scattering on atoms and molecules. Journal of Physics: Conference Series, 2014, 488, 012052.	0.4	4
142	Electron excitation in thin metal films due to the magnetic field of ultrashort laser pulses. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2504.	2.1	0
143	Relativistic convergent close-coupling calculation of inelastic scattering of electrons from cesium. Physical Review A, 2014, 89, .	2.5	7
144	Close-coupling approach to antiproton-impact breakup of molecular hydrogen. Physical Review A, 2014, 89, .	2.5	19

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145	Calculation of the polarization fraction and electron-impact excitation cross section for theCd+(5p)2P3/2state. Physical Review A, 2014, 90, . <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Double</mml:mi><mml:mo>â^'</mml:mo><mml:mi>K</mml:mi><mml:	2.5	9
146	in electron-impact single ionization of metastable two-electron<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:msup><mml:mrow		

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163	Single photon double ionization of Helium at 800 eV â€“ observation of the Quasi Free Mechanism. Journal of Physics: Conference Series, 2014, 488, 022007.	0.4	0
164	Benchmark calculation of hydrogen (antihydrogen) formation at rest in positronium-proton (-antiproton) scattering. Physical Review A, 2013, 87, .	2.5	12
165	Negative ion resonance measurements in the autoionizing region of helium measured across the complete angular scattering range (0Â°â€“180Â°). Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 035001.	1.5	1
166	Comment I on â€œTopological angular momentum in electron exchange excitation of a single atomâ€• Physical Review A, 2013, 87, .	2.5	8
167	Pseudostate description of diatomic-molecule scattering from a hard-wall potential. Physical Review A, 2013, 87, .	2.5	4
168	Convergent-close-coupling formalism for positron scattering from molecules. Physical Review A, 2013, 87, .	2.5	42
169	Signature of Two-Electron Interference in Angular Resolved Double Photoionization of Mg. Physical Review Letters, 2013, 110, 083001.	7.8	15
170	Threshold behavior of positronium formation in positronâ€“alkali-metal scattering. Physical Review A, 2013, 87, .	2.5	11
171	Ejection of Quasi-Free-Electron Pairs from the Helium-Atom Ground State by Single-Photon Absorption. Physical Review Letters, 2013, 111, 013003.	7.8	43
172	Calculation of the relativistic rise in electron-impact-excitation cross sections for highly charged ions. Physical Review A, 2013, 88, .	2.5	11
173	Calculations of electron scattering from H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:math>. Physical Review A, 2013, 88, .	2.5	16
174	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
175	Calculation of the circular-polarizationP3Stokes parameter for electron-silver scattering. Physical Review A, 2013, 88, .	2.5	5
176	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
177	Differential cross sections and electron impact coherence parameters for elastic electron scattering from laser-excited¹³⁸Ba. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 115202.	1.5	2
178	Relativistic convergent close-coupling calculation of spin asymmetries for electronâ€“indium scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 181001.	1.5	12
179	Electron excitation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:msup><mml:mspace width="0.16em" /><mml:mn>1</mml:mn></mml:msup><mml:mspace width="-0.16em" /><mml:msub><mml:mi>P</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:mrow></mml:math>state of a zinc atom. Physical Review A, 2012, 86, .	2.5	10
180	Comment on â€œSemiempirical potentials for positron scattering by atomsâ€• Physical Review A, 2012, 85, .	2.5	1

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181	Electron scattering in hot-dense plasmas. Journal of Physics: Conference Series, 2012, 388, 042049.	0.4	0
182	RCCC calculations for electron scattering on quasi-two electron targets. Journal of Physics: Conference Series, 2012, 388, 042014.	0.4	0
183	Low energy positron scattering from krypton and xenon. Journal of Physics: Conference Series, 2012, 388, 072021.	0.4	0
184	Quantum-statistical line shape calculation for Lyman-Î± lines in dense H plasmas. Journal of Physics: Conference Series, 2012, 397, 012021.	0.4	2
185	Differential cross-sections for the double photoionization of lithium. Journal of Physics: Conference Series, 2012, 388, 022053.	0.4	0
186	Fully quantal close-coupling approach to antiproton-hydrogen collisions. Journal of Physics: Conference Series, 2012, 388, 082015.	0.4	1
187	Calculations of electron scattering from cadmium. Journal of Physics: Conference Series, 2012, 388, 042026.	0.4	1
188	Convergent close coupling calculations for positron-magnesium scattering. Journal of Physics: Conference Series, 2012, 388, 072007.	0.4	0
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