

Klaus Bartschat

List of Publications by Year in descending order

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216
papers

5,766
citations

76196

40
h-index

110170

64
g-index

224
all docs

224
docs citations

224
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron - atom scattering at low and intermediate energies using a pseudo-state/R-matrix basis. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 115-123.	0.6	244
2	Coherent control with a short-wavelength free-electron laser. Nature Photonics, 2016, 10, 176-179.	15.6	197
3	Attosecond angular streaking and tunnelling time in atomic hydrogen. Nature, 2019, 568, 75-77.	13.7	190
4	LXCat: an Open-Access, Web-Based Platform for Data Needed for Modeling Low Temperature Plasmas. Plasma Processes and Polymers, 2017, 14, 1600098.	1.6	188
5	Electron impact excitation of rare gases: differential cross sections and angular correlation parameters for neon, argon, krypton and xenon. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 5839-5863.	1.6	117
6	The R-matrix method for electron impact ionisation. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3191-3200.	1.6	111
7	Electron-photon coincidences with polarised electrons. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, 3761-3776.	1.6	109
8	The B-spline R-matrix method for atomic processes: application to atomic structure, electron collisions and photoionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 112001.	0.6	102
9	Dynamics of two-photon double ionization of helium in short intense xuv laser pulses. Physical Review A, 2008, 77, .	1.0	99
10	Electron collisions with atoms, ions, molecules, and surfaces: Fundamental science empowering advances in technology. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7026-7034.	3.3	99
11	Electron-impact ionization of atomic hydrogen from the 1S and 2S states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L577-L583.	0.6	98
12	Theory and physical importance of integrated state multipoles. Zeitschrift für Physik A, 1982, 304, 85-88.	1.4	85
13	Relativistic B-spline R-matrix method for electron collisions with atoms and ions: Application to low-energy electron scattering from C. Physical Review A, 2008, 77, .	1.0	82
14	Nonperturbative Treatment of Ionization with Excitation of Helium by Electron Impact. Physical Review Letters, 2011, 107, 023203.	2.9	80
15	B-spline Breit-Pauli R-matrix calculations for electron collisions with neon atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 2173-2189.	0.6	78
16	Time delays for attosecond streaking in photoionization of neon. Physical Review A, 2014, 89, .	1.0	73
17	Ionization of atomic hydrogen in strong infrared laser fields. Physical Review A, 2010, 81, .	1.0	72
18	Electron-impact excitation of argon at intermediate energies. Physical Review A, 2014, 89, .	1.0	72

#	ARTICLE	IF	CITATIONS
19	Uncertainty estimates for theoretical atomic and molecular data. Journal Physics D: Applied Physics, 2016, 49, 363002.	1.3	66
20	Initial-state, final-state and higher-order effects in electron impact ionization of helium atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 563-571.	0.6	65
21	Comparisons of sets of electron neutral scattering cross sections and swarm parameters in noble gases: II. Helium and neon. Journal Physics D: Applied Physics, 2013, 46, 334002.	1.3	61
22	The 6s6p ² resonances in e-Hg scattering. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, L361-L366.	1.6	60
23	Breakup of the aligned H^+ molecular ion by xuv laser pulses: A time-dependent treatment in prolate spheroidal coordinates. Physical Review A, 2011, 83, 063402.	1.0	58
24	Circular Dichroism in Multiphoton Ionization of Resonantly Excited Helium. Physical Review Letters, 2017, 118, 013002.	2.9	58
25	Strong-field ionization of lithium. Physical Review A, 2011, 83, .	1.0	57
26	A novel electron scattering apparatus combining a laser photoelectron source and a triply differentially pumped supersonic beam target: characterization and results for the $He^-(1s)$ target. Physical Review A, 2014, 89, .	1.0	56
27	Calculations for electron-impact excitation and ionization of nitrogen. Physical Review A, 2014, 89, .	1.0	55
28	Photoelectron angular distributions in bichromatic atomic ionization induced by circularly polarized VUV femtosecond pulses. Physical Review A, 2016, 93, .	1.0	55
29	General approach to few-cycle intense laser interactions with complex atoms. Physical Review A, 2007, 76, .	1.0	54
30	Electron-collision cross sections for iodine. Physical Review A, 2011, 83, .	1.0	52
31	Electron scattering from helium atoms. Phase shifts, resonance parameters and total cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 5513-5526.	0.6	50
32	Electron-impact excitation of the and states of neon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 4609-4622.	0.6	50
33	Ionization and excitation of helium to the $1s^2 4s$ states of He ⁺ by electron impact. Physical Review A, 2007, 75, .	1.0	50
34	Ionization and simultaneous excitation of helium atoms by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 3129-3138.	0.6	48
35	Electron-impact excitation of helium from the and states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L469-L476.	0.6	46
36	Triple Coincidence ($e, 1s^2 e$) Experiment for Simultaneous Electron Impact Ionization Excitation of Helium. Physical Review Letters, 2005, 95, 033201.	2.9	42

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37	Resfit – A multichannel resonance fitting program. Computer Physics Communications, 1986, 41, 75-84.	3.0	41
38	Differential cross sections and cross-section ratios for the electron-impact excitation of the neon 2p53s configuration. Physical Review A, 2002, 65, .	1.0	41
39	Higher-order contributions observed in three-dimensional $\langle \mathbf{r} \rangle$ measurements at 1-keV impact energy. Physical Review A, 2008, 77, .	1.0	41
40	Non-LTE analysis of K I in late-type stars. Astronomy and Astrophysics, 2019, 627, A177.	2.1	41
41	RMATRIX-ION – A program to calculate electron and positron impact ionization within the R-matrix method. Computer Physics Communications, 1993, 75, 219-258.	3.0	40
42	Electron-Impact Ionization and Excitation of Helium to the $n=1$ Ionic States. Physical Review Letters, 2006, 96, 223201.	2.9	39
43	Electron impact ionisation of argon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 2969-2975.	0.6	37
44	Electron-impact excitation of neon at intermediate energies. Physical Review A, 2012, 86, .	1.0	37
45	B matrix with pseudostates calculations for electron impact excitation and ionization of carbon. Physical Review A, 2013, 87, .	1.0	37
46	Complete Breakup of the Helium Atom by Proton and Antiproton Impact. Physical Review Letters, 2009, 103, 213201.	2.9	36
47	Dynamics of tunneling ionization using Bohmian mechanics. Physical Review A, 2018, 97, .	1.0	36
48	Resonance Features and Fine-Structure Effect in the Asymmetry of Polarized Electrons Scattered Inelastically from Mercury Atoms. Physical Review Letters, 1981, 47, 997-999.	2.9	35
49	Multiphoton ionization of H $\langle \mathbf{r} \rangle$ measurement of laser intensities approaching 10^{15} W/cm ² in xuv laser pulses. Physical Review A, 2010, 82, .	1.0	35
50	Measurement of laser intensities approaching 10^{15} W/cm ² in xuv laser pulses. Physical Review A, 2010, 82, .	1.0	35
51	Interfering one-photon and two-photon ionization by femtosecond VUV pulses in the region of an intermediate resonance. Physical Review A, 2015, 91, .	1.0	35
52	Benchmark calculations for electron collisions with zinc atoms. Physical Review A, 2005, 71, .	1.0	34
53	Two-photon double ionization of H $\langle \mathbf{r} \rangle$ in intense femtosecond laser pulses. Physical Review A, 2010, 82, .	1.0	34
54	Electron-Impact Ionization of Neon at Low Projectile Energy: An Internormalized Experiment and Theory for a Complex Target. Physical Review Letters, 2013, 110, 153202.	2.9	34

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55	Nonperturbative B -spline R -matrix calculations for electron-impact ionization of helium. <i>Physical Review A</i> , 2012, 85, .	1.0	33
56	Near-threshold electron-impact excitation of the vacuum-ultraviolet resonance transitions in Ne, Ar, Kr, and Xe. <i>Physical Review A</i> , 1998, 58, 1275-1281.	1.0	32
57	Time-dependent R -matrix calculations for multiphoton ionization of argon atoms in strong laser pulses. <i>Physical Review A</i> , 2008, 78, .	1.0	32
58	Low-energy electron-impact ionization of argon: Three-dimensional cross section. <i>Physical Review A</i> , 2012, 85, .	1.0	32
59	Kinematically complete study of low-energy electron-impact ionization of neon: Internormalized cross sections in three-dimensional kinematics. <i>Physical Review A</i> , 2015, 91, .	1.0	32
60	Kinematically complete study of low-energy electron-impact ionization of argon: Internormalized cross sections in three-dimensional kinematics. <i>Physical Review A</i> , 2016, 93, .	1.0	31
61	Fully differential cross-section measurements for electron-impact ionization of neon and xenon. <i>Physical Review A</i> , 2009, 79, .	1.0	30
62	A xenon collisional-radiative model applicable to electric propulsion devices: II. Kinetics of the 6s, 6p, and 5d states of atoms and ions in Hall thrusters. <i>Plasma Sources Science and Technology</i> , 2019, 28, 105005.	1.3	30
63	Non-statistical branching ratios for excitation of $(np^2(n+1)s)1.3P$ degrees 0, 1, 2 states in noble gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 4619-4626.	0.6	29
64	Core potentials for quasi-one-electron systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 337-344.	0.6	29
65	Low-lying resonances in electron-neon scattering: Measurements at 4 \AA^{-1} meV resolution and comparison with theory. <i>Physical Review A</i> , 2005, 71, .	1.0	29
66	Observation of integrated state multipoles in collisional excitation of Hg atoms by polarized electrons. <i>Zeitschrift für Physik A</i> , 1982, 304, 89-94.	1.4	28
67	Benchmark calculations for e^- -H scattering between the $n=2$ and $n=3$ thresholds. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 5493-5503.	0.6	28
68	Differential cross sections for electron-impact excitation of krypton at low incident energies: I. Excitation of the $4p5s$ configuration. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 1895-1919.	0.6	28
69	Absolute cross sections for the ionization-excitation of helium by electron impact. <i>Physical Review A</i> , 2008, 78, .	1.0	28
70	Electron-impact excitation of the $(np^2(n+1)s)1.3P$ degrees 0, 1, 2 states in noble gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 4619-4626.	1.0	28
71	Low-energy scattering of electrons by lead atoms. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 2519-2524.	1.6	27
72	Benchmark experiment for electron-impact ionization of argon: Absolute triple-differential cross sections via three-dimensional electron emission images. <i>Physical Review A</i> , 2011, 83, .	1.0	27

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73	Wave-packet continuum-discretization approach to single ionization of helium by antiprotons and energetic protons. <i>Physical Review A</i> , 2017, 96, .	1.0	27
74	A time-dependent B -spline R -matrix approach to double ionization of atoms by XUV laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 134015.	0.6	26
75	Benchmark calculations for near-threshold electron-impact excitation of krypton and xenon atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 074031.	0.6	26
76	Quantum coherent control of the photoelectron angular distribution in bichromatic-field ionization of atomic neon. <i>Physical Review A</i> , 2018, 97, .	1.0	26
77	Vector $(e, e^{\hat{A}})$ correlations in ionization/excitation of He by electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 5035-5050.	0.6	25
78	Electron-impact ionization cross sections out of the ground and 6P2 excited states of cesium. <i>Physical Review A</i> , 2006, 74, .	1.0	25
79	Out-of-Plane $(e, 2e)$ Experiments on Helium $L=0, 1, 2$ Autoionizing Levels. <i>Physical Review Letters</i> , 2008, 100, 063201.	2.9	25
80	Coherent control schemes for the photoionization of neon and helium in the Extreme Ultraviolet spectral region. <i>Scientific Reports</i> , 2018, 8, 7774.	1.6	25
81	Spin Asymmetries in Low-Energy Electron Scattering from Cesium Atoms. <i>Physical Review Letters</i> , 1999, 82, 1128-1131.	2.9	24
82	Excitation of $Ar 3p54s^2 3p54p$ transitions by electron impact. <i>Physical Review A</i> , 2000, 61, .	1.0	24
83	Electron-impact excitation from the $(4p55s)$ metastable states of krypton. <i>Physical Review A</i> , 2002, 65, .	1.0	24
84	Wave-packet continuum-discretization approach to proton collisions with helium. <i>Physical Review A</i> , 2019, 99, .	1.0	24
85	Double-slit interference effect in electron emission from $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle H \langle \text{mml:mtext} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle$ to x-ray radiation. <i>Physical Review A</i> , 2012, 85, .	1.0	23
86	Relativistic R matrix with pseudostates calculations for electron scattering from cesium atoms. <i>Physical Review A</i> , 2000, 62, .	1.0	22
87	Displacement effect in strong-field atomic ionization by an XUV pulse. <i>Physical Review A</i> , 2014, 90, .	1.0	22
88	Roadmap on photonic, electronic and atomic collision physics: II. Electron and antimatter interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 171002.	0.6	22
89	Using Circular Dichroism to Control Energy Transfer in Multiphoton Ionization. <i>Physical Review Letters</i> , 2021, 126, 023201.	2.9	22
90	Electron-impact excitation to the $4p55s$ and $4p55p$ levels of Kr I using different distorted-wave and close-coupling methods. <i>Physical Review A</i> , 2001, 64, .	1.0	21

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91	Controlling the angular distribution of atomic photoelectrons in the region of laser-induced continuum structure in the femtosecond time domain. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4659-4671.	0.6	21
92	Cross sections for electron scattering from magnesium. Physical Review A, 2009, 79, .	1.0	21
93	Precise and Accurate Measurements of Strong-Field Photoionization and a Transferable Laser Intensity Calibration Standard. Physical Review Letters, 2016, 117, 053001.	2.9	21
94	Quantum-Mechanical Calculations of Cross Sections for Electron Collisions With Atoms and Molecules. Plasma Processes and Polymers, 2017, 14, 1600093.	1.6	21
95	Decomposition of the transition phase in multi-sideband schemes for reconstruction of attosecond beating by interference of two-photon transitions. Physical Review A, 2021, 103, .	1.0	21
96	An attempt to observe Mott scattering optically. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 1089-1096.	0.6	20
97	Computational methods for electron-atom collisions in plasma applications. Journal Physics D: Applied Physics, 2013, 46, 334004.	1.3	20
98	Numerical simulation of the double-to-single ionization ratio for the helium atom in strong laser fields. Physical Review A, 2015, 92, .	1.0	20
99	A xenon collisional-radiative model applicable to electric propulsion devices: I. Calculations of electron-impact cross sections for xenon ions by the Dirac B-spline R-matrix method. Plasma Sources Science and Technology, 2019, 28, 105004.	1.3	20
100	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-spline} \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{R} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-matrix-with-pseudostates}$ calculations for electron-impact excitation and ionization of fluorine. Physical Review A, 2014, 89, .	1.0	19
101	Amplitudes for scattering of electrons by atomic systems including relativistic effects. Computer Physics Communications, 1983, 30, 369-381.	3.0	18
102	Accuracy of local exchange in the calculation of continuum wavefunctions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 5121-5130.	0.6	18
103	Unexpected effects in spin-polarized electron-impact excitation of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \text{stretchy="false"} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 10 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:math} \rangle$	1.0	18
104	Alignment effects in two-photon double ionization of H $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ in femtosecond xuv laser pulses. Physical Review A, 2011, 84, .	1.0	18
105	Theoretical and experimental investigation of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle$ of argon $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ in asymmetric kinematics at intermediate energy. Physical Review A, 2014, 90, .	1.0	18
106	Inelastic e+Mg collision data and its impact on modelling stellar and supernova spectra. Astronomy and Astrophysics, 2017, 606, A11.	2.1	18
107	Observation of dynamic Stark resonances in strong-field excitation. Physical Review A, 2020, 101, .	1.0	18
108	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. Physical Review A, 2015, 92, .	1.0	17

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109	Extracting phase information on continuum-continuum couplings. <i>Physical Review A</i> , 2019, 99, .	1.0	17
110	Fully differential cross sections for single ionization of helium by energetic protons. <i>Physical Review A</i> , 2019, 100, .	1.0	17
111	An approximate symmetry property of the DWBA and consequences for coherence parameters. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1982, 15, 2747-2753.	1.6	16
112	Absolute angle-differential cross sections for electron-impact excitation of neon within the first 3.5 eV above threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 044009.	0.6	16
113	Emission cross sections for electron-impact excitation of zinc atoms. <i>Physical Review A</i> , 2009, 79, .	1.0	15
114	Electron impact excitation of the $(4p^5 \text{ } ^5\text{S})$ states in krypton: high-resolution electron scattering experiments and B -spline R -matrix calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 065201.	0.6	15
115	Benchmark calculation of total cross sections for ionization+excitation of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 061001.	0.6	15
116	Calculations for electron-impact excitation and ionization of beryllium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 235701.	0.6	15
117	Resonance effects in two-photon double ionization of H ₂ by femtosecond XUV laser pulses. <i>Physical Review A</i> , 2013, 88, .	1.0	14
118	Differential cross section ratios for low-energy electron-impact excitation of the levels of krypton - sensitive tests of relativistic effects for heavy noble gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, L155-L163.	0.6	13
119	Propensity Rules for Angular Momentum Transfer in Electron-Impact Excitation and Deexcitation. <i>Physical Review Letters</i> , 1999, 83, 5254-5257.	2.9	13
120	Cross sections and collision dynamics of the excitation of $1snp$ $1P$ 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, .	1.0	13
121	Validation of atomic data using a plasma discharge. <i>New Journal of Physics</i> , 2010, 12, 073018.	1.2	13
122	Electron collisions with cesium atoms+benchmark calculations and application to modeling an excimer-pumped alkali laser. <i>Plasma Sources Science and Technology</i> , 2014, 23, 035011.	1.3	13
123	Photoelectron angular distribution in two-pathway ionization of neon with femtosecond XUV pulses. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	13
124	Electron collisions+experiment, theory, and applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 132001.	0.6	13
125	Coherent control of the photoelectron angular distribution in ionization of neon by a circularly polarized bichromatic field in the resonance region. <i>Physical Review A</i> , 2019, 100, .	1.0	13
126	Circular dichroism in atomic resonance-enhanced few-photon ionization. <i>Physical Review A</i> , 2021, 103, .	1.0	13

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127	Program to calculate observable quantities from scattering amplitudes for inelastic electron-atom collisions. Computer Physics Communications, 1983, 30, 383-396.	3.0	12
128	Differential cross sections for electron-impact excitation of krypton at low incident energies: II. Excitation of the 4p ⁵ 5p, 4p ⁵ 4d and 4p ⁵ 6s configurations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1921-1933.	0.6	11
129	Ionization excitation of helium to He(2p) magnetic sublevels following electron, proton, and molecular hydrogen (H ₂ and H ₃) impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3383-3395.	0.6	11
130	High-resolution experiments and B-spline R-matrix calculations for elastic electron scattering from krypton. Physical Review A, 2011, 83, .	1.0	11
131	Coherence in multistate resonance-enhanced four-photon ionization of lithium atoms. Physical Review A, 2013, 88, .	1.0	11
132	Attoclock setup with negative ions: A possibility for experimental validation. Physical Review A, 2019, 99, .	1.0	11
133	Electron-impact excitation and ionization of atomic calcium at intermediate energies. Physical Review A, 2019, 99, .	1.0	11
134	Attosecond transient absorption of a continuum threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 124002.	0.6	11
135	Benchmark calculations for electron collisions with Fe ⁺ . Physical Review A, 2005, 72, .	1.0	10
136	Superelastic electron scattering from laser-excited cesium atoms. Physical Review A, 2007, 75, .	1.0	10
137	Electron impact excitation of N ³⁺ using the B-spline R-matrix method: importance of the target structure description and the size of the close-coupling expansion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 065203.	0.6	10
138	Electron Scattering from Neutral Fe and Low-energy Photodetachment of Fe ⁺ . Astrophysical Journal, 2018, 867, 63.	1.6	10
139	Two-color XUV plus near-IR multiphoton near-threshold ionization of the helium ion by circularly polarized light in the vicinity of the $3\text{p} \rightarrow 3\text{d}$ resonance. Physical Review A, 2019, 100, .	1.0	10
140	Unusual angular momentum transfer in electron-impact excitation of neon. Physical Review A, 2012, 85, .	1.0	9
141	Recommended electron-impact excitation and ionization cross sections for Be I. Atomic Data and Nuclear Data Tables, 2019, 127-128, 1-21.	0.9	9
142	Electron Scattering Cross-Section Calculations for Atomic and Molecular Iodine. Atoms, 2021, 9, 103.	0.7	9
143	Mott scattering and angular momentum orientation low-energy electron scattering from indium atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, L307-L312.	0.6	8
144	Cross sections and transport coefficients for electrons in Zn vapour. Journal Physics D: Applied Physics, 2004, 37, 3185-3191.	1.3	8

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145	Spin-asymmetry function for elastic electron scattering from lead atoms in the energy range 11–14 eV. <i>Physical Review A</i> , 2009, 80, .	1.0	8
146	Effects of numerical approximations in the treatment of short-pulse strong-field ionization of atomic hydrogen. <i>Physical Review A</i> , 2013, 88, .	1.0	8
147	Fine-structure-resolved electron collisions from chlorine atoms in the $(3p5)2P3/2$ and $(3p5)2P1/2$ states. <i>Physical Review A</i> , 2013, 87, .	1.0	8
148	Comment II on “Topological angular momentum in electron exchange excitation of a single atom”. <i>Physical Review A</i> , 2013, 87, .	1.0	8
149	Ellipticity dependence of excitation and ionization of argon atoms by short-pulse infrared radiation. <i>Physical Review A</i> , 2020, 102, .	1.0	8
150	Magnetic dichroism in few-photon ionization of polarized atoms. <i>Physical Review A</i> , 2021, 104, .	1.0	8
151	Convergence of energy-differential ionization cross sections obtained from a T-matrix approach with R-matrix wave functions. <i>Physical Review A</i> , 2002, 65, .	1.0	7
152	Low-energy outer-shell photodetachment of the negative ion of boron. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	7
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