

Klaus Bartschat

List of Publications by Year in descending order

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216
papers

5,766
citations

76196

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224
docs citations

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2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalizations of the R-Matrix Method to the Treatment of the Interaction of Short-Pulse Electromagnetic Radiation with Atoms. <i>Atoms</i> , 2022, 10, 26.	0.7	1
2	Carrier-Envelope Phase-Dependent Strong-Field Excitation. <i>Physical Review Letters</i> , 2022, 128, 173201.	2.9	5
3	Electron-impact excitation of the $5s^2 \text{ } ^1S_{1/2} \rightarrow 5^2 \text{ } ^1P_{1/2}$ and $5s^2 \text{ } ^3P_{3/2}$ transitions in rubidium by 40 eV electrons: theory and experiment. <i>European Physical Journal D</i> , 2022, 76, .	0.6	1
4	Using Circular Dichroism to Control Energy Transfer in Multiphoton Ionization. <i>Physical Review Letters</i> , 2021, 126, 023201.	2.9	22
5	Positive-energy spectra of atomic hydrogen in a magnetic field: A comparative study between different theoretical approaches. <i>Physical Review A</i> , 2021, 103, .	1.0	2
6	Decomposition of the transition phase in multi-sideband schemes for reconstruction of attosecond beating by interference of two-photon transitions. <i>Physical Review A</i> , 2021, 103, .	1.0	21
7	Recommended Cross Sections for Electron-Indium Scattering. <i>Journal of Physical and Chemical Reference Data</i> , 2021, 50, .	1.9	6
8	Circular dichroism in atomic resonance-enhanced few-photon ionization. <i>Physical Review A</i> , 2021, 103, .	1.0	13
9	Linear dichroism in few-photon ionization of laser-dressed helium. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	0
10	Single-cycle versus multicycle nonsequential double ionization of argon. <i>Physical Review A</i> , 2021, 104, .	1.0	5
11	Relativistic B-Spline R-Matrix Calculations for Electron Collisions with Ytterbium. <i>Atoms</i> , 2021, 9, 47.	0.7	2
12	Benchmark Angle-Differential Cross-Section Ratios for Excitation of the 4p5s Configuration in Krypton. <i>Atoms</i> , 2021, 9, 61.	0.7	3
13	Linear polarization fractions of Fulcher- $\hat{\Gamma}$ fluorescence in electron collisions with H^+ . <i>Physical Review A</i> , 2021, 104, .	1.0	2
14	Low-Energy Elastic Electron Scattering from Helium Atoms. <i>Atoms</i> , 2021, 9, 82.	0.7	1
15	Relativistic B-Spline R-Matrix Calculations for Electron Scattering from Thallium Atoms. <i>Atoms</i> , 2021, 9, 94.	0.7	1
16	Magnetic dichroism in few-photon ionization of polarized atoms. <i>Physical Review A</i> , 2021, 104, .	1.0	8
17	Electron Scattering Cross-Section Calculations for Atomic and Molecular Iodine. <i>Atoms</i> , 2021, 9, 103.	0.7	9
18	Oleg Zatsarinny (1953-2021): Memories by His Colleagues. <i>Atoms</i> , 2021, 9, 109.	0.7	1

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19	Benchmark angle-differential cross-section ratios for the electron-impact excitation of the xenon $5p_{1/2}^2$ transition. Physical Review A, 2021, 104, .	1.0	10
20	Cross sections for electron scattering from atomic lead. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 015204.	0.6	6
21	Benchmark calculations for photoionization of neutral iron. Journal of Physics: Conference Series, 2020, 1412, 102005.	0.3	0
22	Photoelectron spectroscopy of laser-dressed atomic helium. Physical Review A, 2020, 102, .	1.0	5
23	Ellipticity dependence of excitation and ionization of argon atoms by short-pulse infrared radiation. Physical Review A, 2020, 102, .	1.0	8
24	Electron-impact excitation of the $(5s25p) P1/2^{\circ}(5s26s) S1/2$ transition in indium: Theory and experiment. Physical Review A, 2020, 102, .	1.0	5
25	Observation of dynamic Stark resonances in strong-field excitation. Physical Review A, 2020, 101, .	1.0	18
26	Attosecond transient absorption of a continuum threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 124002.	0.6	11
27	Computational treatment of electron and photon collisions with atoms, ions, and molecules: the legacy of Philip G Burke. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 192002.	0.6	2
28	Nonsequential double ionization of Ar in near-single-cycle laser pulses. Optics Express, 2020, 28, 22231.	1.7	6
29	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, .	1.0	2
30	Non-LTE analysis of K I in late-type stars. Astronomy and Astrophysics, 2019, 627, A177.	2.1	41
31	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. Plasma Sources Science and Technology, 2019, 28, 105005.	1.3	30
32	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
33	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.	0.6	22
34	Two-color XUV plus near-IR multiphoton near-threshold ionization of the helium ion by circularly polarized light in the vicinity of the $3p$ resonance. Physical Review A, 2019, 100, .	1.0	10
35	Wave-packet continuum-discretization approach to proton collisions with helium. Physical Review A, 2019, 99, .	1.0	24
36	Attosecond angular streaking and tunnelling time in atomic hydrogen. Nature, 2019, 568, 75-77.	13.7	190

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37	Photoionization of neutral iron from the ground and excited states. <i>Physical Review A</i> , 2019, 99, .	1.0	7
38	Extracting phase information on continuum-continuum couplings. <i>Physical Review A</i> , 2019, 99, .	1.0	17
39	Attoclock setup with negative ions: A possibility for experimental validation. <i>Physical Review A</i> , 2019, 99, .	1.0	11
40	Fully differential cross sections for single ionization of helium by energetic protons. <i>Physical Review A</i> , 2019, 100, .	1.0	17
41	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
42	Recommended electron-impact excitation and ionization cross sections for Be I. <i>Atomic Data and Nuclear Data Tables</i> , 2019, 127-128, 1-21.	0.9	9
43	Electron-impact excitation and ionization of atomic calcium at intermediate energies. <i>Physical Review A</i> , 2019, 99, .	1.0	11
44	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
45	Dynamics of tunneling ionization using Bohmian mechanics. <i>Physical Review A</i> , 2018, 97, .	1.0	36
46	Low-energy outer-shell photo-detachment of the negative ion of aluminum. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 035004.	0.6	3
47	Electron Scattering from Neutral Fe and Low-energy Photodetachment of $\text{Fe}^{\text{+}}$. <i>Astrophysical Journal</i> , 2018, 867, 63.	1.6	10
48	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
49	Electron collisions—experiment, theory, and applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 132001.	0.6	13
50	Out-of-plane ($T_{jETQq000rgBT}$) Overlock $10Tf50232Td$ (xmlns:mml="http://www.w3.org/1998/Math/MathML") <mml:tr></mml:tr> <i>Physical Review A</i> , 2018, 97, .	1.0	1
51	Circular Dichroism in Multiphoton Ionization of Resonantly Excited $\text{He}^{\text{+}}$ (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline") <mml:mrow><mml:msup><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:mrow> <i>Physical Review Letters</i> , 2017, 118, 013002.	2.9	58
52	Electron impact excitation of $\text{N}^{\text{3+}}$ using the B - R -matrix method: importance of the target structure description and the size of the close-coupling expansion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 065203.	0.6	10
53	Above-threshold ionization in neon produced by combining optical and bichromatic XUV femtosecond laser pulses. <i>Physical Review A</i> , 2017, 95, .	1.0	7
54	Spin—spin correlations and entanglement in elastic electron scattering from hydrogen atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 224004.	0.6	1

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55	Inelastic e+Mg collision data and its impact on modelling stellar and supernova spectra. <i>Astronomy and Astrophysics</i> , 2017, 606, A11.	2.1	18
56	Calculations for electron-impact excitation of Mg . <i>Physical Review A</i> , 2017, 95, .	1.0	6
57	A few selected contributions to electron and photon collisions with H_2 and H^+ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 214002.	0.6	0
58	Spin entanglement in elastic electron scattering from lithium atoms. <i>Physical Review A</i> , 2017, 95, .	1.0	6
59	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
60	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
61	Quantum-Mechanical Calculations of Cross Sections for Electron Collisions With Atoms and Molecules. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600093.	1.6	21
62	LXCat: an Open-Access, Web-Based Platform for Data Needed for Modeling Low Temperature Plasmas. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600098.	1.6	188
63	Continuous spectra of atomic hydrogen in a strong magnetic field. <i>Physical Review A</i> , 2016, 94, .	1.0	6
64	Time Propagation of Partial Differential Equations Using the Short Iterative Lanczos Method and Finite-Element Discrete Variable Representation. , 2016, , .		0
65	Low-energy photodetachment of Ga elastic electron scattering from neutral Ga. <i>Physical Review A</i> , 2016, 94, .	1.0	6
66	Precise and Accurate Measurements of Strong-Field Photoionization and a Transferable Laser Intensity Calibration Standard. <i>Physical Review Letters</i> , 2016, 117, 053001.	2.9	21
67	Uncertainty estimates for theoretical atomic and molecular data. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 363002.	1.3	66
68	Nonperturbative B-spline R-matrix-with-pseudostates calculations for electron-impact ionization-excitation of helium to $n=3$ states of He^+ . <i>Physical Review A</i> , 2016, 93, .	1.0	6
69	Electron-impact excitation and ionization of atomic boron at low and intermediate energies. <i>Physical Review A</i> , 2016, 93, .	1.0	4
70	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
71	Photoelectron angular distributions in bichromatic atomic ionization induced by circularly polarized VUV femtosecond pulses. <i>Physical Review A</i> , 2016, 93, .	1.0	55
72	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

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73	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
74	Low-energy outer-shell photodetachment of the negative ion of boron. European Physical Journal D, 2016, 70, 1.	0.6	7
75	Coherent control with a short-wavelength free-electron laser. Nature Photonics, 2016, 10, 176-179.	15.6	197
76	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
77	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. Physical Review A, 2015, 92, .	1.0	17
78	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
79	Hyperfine-changing transitions in $^3\text{He II}$ and other one-electron ions by electron scattering. Journal of Physics: Conference Series, 2015, 635, 052016.	0.3	0
80	Polarization correlations for electron-impact excitation of neon at 50 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 185201.	0.6	2
81	Kinematically complete study of low-energy electron-impact ionization of neon: Internormalized cross sections in three-dimensional kinematics. Physical Review A, 2015, 91, .	1.0	32
82	Electron collisions with cesium atoms—benchmark calculations and application to modeling an excimer-pumped alkali laser. Plasma Sources Science and Technology, 2014, 23, 035011.	1.3	13
83	Benchmark calculation of total cross sections for ionization—excitation of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 061001.	0.6	15
84	Time delays for attosecond streaking in photoionization of neon. Physical Review A, 2014, 89, .	1.0	73
85	Energy dependence of the $(e,2e)$ recoil peak to binary peak ratio across He $(2p^2)1D$ and $(2s2p)1P$ autoionizing levels. Physical Review A, 2014, 89, .	1.0	2
86	Alignment and pulse-duration effects in two-photon double ionization of H_2 by femtosecond XUV laser pulses. Physical Review A, 2014, 90, .	1.0	2
87	HYPERFINE-CHANGING TRANSITIONS IN $^3\text{He II}$ AND OTHER ONE-ELECTRON IONS BY ELECTRON SCATTERING. Astrophysical Journal, 2014, 788, 69.	1.6	2
88	B -spline R -matrix-with-pseudostates calculations for electron-impact excitation and ionization of fluorine. Physical Review A, 2014, 89, .	1.0	19
89	Displacement effect in strong-field atomic ionization by an XUV pulse. Physical Review A, 2014, 90, .	1.0	22
90	Theoretical and experimental investigation of $3p$ in asymmetric kinematics at intermediate energy. Physical Review A, 2014, 90, .	1.0	18

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91	$\langle B \rangle$ -spline $\langle R \rangle$ -matrix with-pseudostates calculations for electron-impact excitation and ionization of nitrogen. Physical Review A, 2014, 89, .	1.0	55
92	Electron-impact excitation of argon at intermediate energies. Physical Review A, 2014, 89, .	1.0	72
93	Benchmark calculations for electron collisions with complex atoms. Journal of Physics: Conference Series, 2014, 488, 012044.	0.3	3
94	Coherence in multistate resonance-enhanced four-photon ionization of lithium atoms. Physical Review A, 2013, 88, .	1.0	11
95	Effects of numerical approximations in the treatment of short-pulse strong-field ionization of atomic hydrogen. Physical Review A, 2013, 88, .	1.0	8
96	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
97	The $\langle B \rangle$ -spline $\langle R \rangle$ -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
98	Photoionization yield of atomic hydrogen using intense few-cycle pulses. , 2013, , .		0
99	$\langle B \rangle$ -spline $\langle R \rangle$ -matrix with-pseudostates calculations for electron-impact excitation and ionization of carbon. Physical Review A, 2013, 87, .	1.0	37
100	Fine-structure-resolved electron collisions from chlorine atoms in the $(3p5)2P3/2$ and $(3p5)2P1/2$ states. Physical Review A, 2013, 87, .	1.0	8
101	Comment II on "Topological angular momentum in electron exchange excitation of a single atom". Physical Review A, 2013, 87, .	1.0	8
102	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
103	Computational methods for electron atom collisions in plasma applications. Journal Physics D: Applied Physics, 2013, 46, 334004.	1.3	20
104	Resonance effects in two-photon double ionization of H ₂ by femtosecond XUV laser pulses. Physical Review A, 2013, 88, .	1.0	14
105	Resonance effects in two-photon double ionization of H ₂ by femtosecond XUV laser pulses: intensities approaching 10^{15} W/cm ² with an accuracy of 1%.	1.0	35
106	Threshold Alignment Reversal and Circularly Polarized Fluorescence in Rotationally Resolved H_2 . Physical Review Letters, 2013, 111, 253201.	2.9	3
107	Relativistic B -spline R -matrix calculations for electron collisions with lead atoms: differential cross sections and spin asymmetries. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 035202.	0.6	4
108	Double-slit interference effect in electron emission from H_2 to x-ray radiation. Physical Review A, 2012, 85, .	1.0	23

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109	Electron-impact excitation of neon at intermediate energies. Physical Review A, 2012, 86, .	1.0	37
110	Low-energy electron-impact ionization of argon: Three-dimensional cross section. Physical Review A, 2012, 85, .	1.0	32
111	Unusual angular momentum transfer in electron-impact excitation of neon. Physical Review A, 2012, 85, .	1.0	9
112	Nonperturbative B -spline R -matrix calculations for electron-impact ionization of helium. Physical Review A, 2012, 85, .	1.0	33
113	Electron-collision cross sections for iodine. Physical Review A, 2011, 83, .	1.0	52
114	Nonperturbative Treatment of Ionization with Excitation of Helium by Electron Impact. Physical Review Letters, 2011, 107, 023203.	2.9	80
115	High-resolution experiments and B -spline R -matrix calculations for elastic electron scattering from krypton. Physical Review A, 2011, 83, .	1.0	11
116	Unexpected effects in spin-polarized electron-impact excitation of the d shell. Physical Review A, 2011, 83, .	1.0	18
117	Strong-field ionization of lithium. Physical Review A, 2011, 83, .	1.0	57
118	Accurate Cross-section Calculations for Low-Energy Electron-Atom Collisions. , 2011, , .		2
119	Multiphoton ionization of H in xuv laser pulses. Physical Review A, 2011, 84, .	1.0	35
120	Benchmark experiment for electron-impact ionization of argon: Absolute triple-differential cross sections via three-dimensional electron emission images. Physical Review A, 2011, 83, .	1.0	27
121	Breakup of the aligned H_2 molecule by xuv laser pulses: A time-dependent treatment in prolate spheroidal coordinates. Physical Review A, 2011, 83, .	1.0	58
122	Carrier-envelope phase effects in few-cycle ionisation of atomic hydrogen. , 2011, , .		0
123	Alignment effects in two-photon double ionization of H_2 in femtosecond xuv laser pulses. Physical Review A, 2011, 84, .	1.0	18
124	Electron impact excitation of the $(4p^5)$ states in krypton: high-resolution electron scattering experiments and B -spline R -matrix calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 065201.	0.6	15
125	Above-threshold ionization in atomic hydrogen using intense few-cycle laser pulses. , 2011, , .		0
126	Two-photon double ionization of H_2 in intense femtosecond laser pulses. Physical Review A, 2010, 82, .	1.0	34

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127	Validation of atomic data using a plasma discharge. <i>New Journal of Physics</i> , 2010, 12, 073018.	1.2	13
128	Out-of-plane (e,2e) angular distributions and energy spectra of helium L=0,1,2 autoionizing levels. <i>Physical Review A</i> , 2010, 82, .	1.0	6
129	Ionization of atomic hydrogen in strong infrared laser fields. <i>Physical Review A</i> , 2010, 81, .	1.0	72
130	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
131	Fully differential cross-section measurements for electron-impact ionization of neon and xenon. <i>Physical Review A</i> , 2009, 79, .	1.0	30
132	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
133	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
134	Complete Breakup of the Helium Atom by Proton and Antiproton Impact. <i>Physical Review Letters</i> , 2009, 103, 213201.	2.9	36
135	Emission cross sections for electron-impact excitation of zinc atoms. <i>Physical Review A</i> , 2009, 79, .	1.0	15
136	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
137	Cross sections for electron scattering from magnesium. <i>Physical Review A</i> , 2009, 79, .	1.0	21
138	Long-range interactions of the chlorine atom. <i>Molecular Physics</i> , 2009, 107, 2387-2393.	0.8	5
139	Absolute cross sections for the ionization-excitation of helium by electron impact. <i>Physical Review A</i> , 2008, 78, .	1.0	28
140	Relativistic B -spline R -matrix method for electron collisions with atoms and ions: Application to low-energy electron scattering from Cs. <i>Physical Review A</i> , 2008, 77, .	1.0	82
141	Charged-Particle Impact Ionization of Atoms. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
142	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
143	Electron-impact excitation of the d -shell of calcium. <i>Physical Review A</i> , 2008, 77, .	1.0	28
144	Dynamics of two-photon double ionization of helium in short intense xuv laser pulses. <i>Physical Review A</i> , 2008, 77, .	1.0	99

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145	Higher-order contributions observed in three-dimensional $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle e$ measurements at 1-keV impact energy. Physical Review A, 2008, 77, .	1.0	41
146	Out-of-Plane (e,2e) Experiments on Helium L=0, 1, 2 Autoionizing Levels. Physical Review Letters, 2008, 100, 063201.	2.9	25
147	Superelastic electron scattering from laser-excited cesium atoms. Physical Review A, 2007, 75, .	1.0	10
148	General approach to few-cycle intense laser interactions with complex atoms. Physical Review A, 2007, 76, .	1.0	54
149	Ionization and ionization $\hat{=}$ excitation of helium to then=1 $\hat{=}$ 4states of He+by electron impact. Physical Review A, 2007, 75, .	1.0	50
150	A Hybrid DWBA $\hat{=}$ R-Matrix Approach for Charged-Particle Impact Ionization of Atoms. AIP Conference Proceedings, 2006, , .	0.3	0
151	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
152	Electron-Impact Ionization and Excitation of Helium to then=1 $\hat{=}$ 4Ionic States. Physical Review Letters, 2006, 96, 223201.	2.9	39
153	Near-threshold electron-impact excitation of the(3p54s4p)4S3 $\hat{=}$ 2quasimetastable state in potassium. Physical Review A, 2006, 73, .	1.0	6
154	Electron-impact ionization cross sections out of the ground and6P2excited states of cesium. Physical Review A, 2006, 74, .	1.0	25
155	AN ($\langle \text{font} \rangle e \langle \text{font} \rangle \hat{=}^2 \langle \text{font} \rangle e \langle \text{font} \rangle$) EXPERIMENT FOR SIMULTANEOUS IONIZATION-EXCITATION OF HELIUM TO THE $\langle \text{font} \rangle \text{He} \langle \text{font} \rangle \langle \text{sup} \rangle + \langle \text{sup} \rangle (2P) \langle \text{sup} \rangle 2 \langle \text{sup} \rangle \langle \text{font} \rangle P \langle \text{font} \rangle$ STATES BY ELECTRON IMPACT. , 2006, , .		0
156	ABSOLUTE ANGLE-DIFFERENTIAL CROSS SECTIONS FOR EXCITATION OF NEON ATOMS BY ELECTRONS OF ENERGY 16.6 $\hat{=}$ 19.2 EV. , 2006, , .		0
157	THE B-SPLINE R-MATRIX METHOD FOR ELECTRON AND PHOTON COLLISIONS WITH ATOMS AND IONS. , 2006, , .		0
158	Multi-vortex phase transitions in rotating Bose-Einstein condensates. AIP Conference Proceedings, 2005, , .	0.3	2
159	Triple Coincidence(e, $\hat{=}^2e$)Experiment for Simultaneous Electron Impact Ionization Excitation of Helium. Physical Review Letters, 2005, 95, 033201.	2.9	42
160	Low-lying resonances in electron-neon scattering: Measurements at4 $\hat{=}$ meVresolution and comparison with theory. Physical Review A, 2005, 71, .	1.0	29
161	Benchmark calculations for electron collisions withFe+. Physical Review A, 2005, 72, .	1.0	10
162	Benchmark calculations for electron collisions with zinc atoms. Physical Review A, 2005, 71, .	1.0	34

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163	Ionization of rubidium by 50 eV electrons. <i>Physical Review A</i> , 2004, 69, .	1.0	4
164	B-spline Breit-Pauli R-matrix calculations for electron collisions with neon atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 2173-2189.	0.6	78
165	Cross sections and transport coefficients for electrons in Zn vapour. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 3185-3191.	1.3	8
166	A novel electron scattering apparatus combining a laser photoelectron source and a triply differentially pumped supersonic beam target: characterization and results for the $\text{He}^-(1s)$ ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 2173-2189.	0.6	78
167	Cascade effects in the excitation of $n(n+1)p$ states of krypton and xenon atoms by polarized electrons. <i>Physical Review A</i> , 2003, 67, .	1.0	3
168	Ionization-excitation of helium to $\text{He}(2p)$ magnetic sublevels following electron, proton, and molecular hydrogen (H_2 and H_3^+) impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3383-3395.	0.6	11
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