

James Colgan

List of Publications by Year in descending order

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262
papers

5,653
citations

87723

38
h-index

123241

61
g-index

264
all docs

264
docs citations

264
times ranked

2640
citing authors

#	ARTICLE	IF	CITATIONS
1	A higher-than-predicted measurement of iron opacity at solar interior temperatures. <i>Nature</i> , 2015, 517, 56-59.	13.7	321
2	Dielectronic recombination data for dynamic finite-density plasmas. <i>Astronomy and Astrophysics</i> , 2003, 406, 1151-1165.	2.1	191
3	The time-dependent close-coupling method for atomic and molecular collision processes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, R39-R60.	0.6	177
4	A NEW GENERATION OF LOS ALAMOS OPACITY TABLES. <i>Astrophysical Journal</i> , 2016, 817, 116.	1.6	153
5	The Los Alamos suite of relativistic atomic physics codes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144014.	0.6	122
6	Fully quantal ($\hat{1}^3, 2e$) calculations for absolute differential cross sections of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, L457-L466.	0.6	118
7	Core-Excited Resonance Enhancement in the Two-Photon Complete Fragmentation of Helium. <i>Physical Review Letters</i> , 2002, 88, 173002.	2.9	112
8	The new Los Alamos opacity code ATOMIC. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 265-271.	1.1	94
9	Triple-differential cross-sections for two-photon double ionization of He near threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, L35-L45.	0.6	86
10	Time-dependent close-coupling calculations of the triple-differential cross section for electron-impact ionization of hydrogen. <i>Physical Review A</i> , 2002, 65, .	1.0	79
11	Systematic Study of L -Shell Opacity at Stellar Interior Temperatures. <i>Physical Review Letters</i> , 2019, 122, 235001.	2.9	78
12	Differential Cross Sections for the Ionization of Oriented H_2 Molecules by Electron Impact. <i>Physical Review Letters</i> , 2008, 101, 233201.	2.9	72
13	Dielectronic recombination data for dynamic finite-density plasmas. <i>Astronomy and Astrophysics</i> , 2003, 412, 597-601.	2.1	69
14	Prominent radiative contributions from multiply-excited states in laser-produced tin plasma for nanolithography. <i>Nature Communications</i> , 2020, 11, 2334.	5.8	68
15	Observation of Trielectronic Recombination in Be-like Cl Ions. <i>Physical Review Letters</i> , 2003, 91, 043001.	2.9	62
16	Double- and triple-differential cross sections for the low-energy electron-impact ionization of hydrogen. <i>Physical Review A</i> , 2006, 74, .	1.0	60
17	Radiative Losses of Solar Coronal Plasmas. <i>Astrophysical Journal</i> , 2008, 689, 585-592.	1.6	58
18	Dielectronic recombination data for dynamic finite-density plasmas. <i>Astronomy and Astrophysics</i> , 2004, 417, 1183-1188.	2.1	58

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19	Dielectronic recombination data for dynamic finite-density plasmas. <i>Astronomy and Astrophysics</i> , 2004, 420, 775-781.	2.1	58
20	Triple Differential Cross Sections for the Double Photoionization of H ₂ . <i>Physical Review Letters</i> , 2007, 98, 153001.	2.9	55
21	Relativistic opacities for astrophysical applications. <i>High Energy Density Physics</i> , 2015, 16, 53-59.	0.4	52
22	Time-dependent close-coupling calculations for the double photoionization of He and H ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, L377-L384.	0.6	51
23	Dielectronic Recombination of Fe ^{xiii} Forming Fe ^{xii} : Laboratory Measurements and Theoretical Calculations. <i>Astrophysical Journal</i> , 2006, 642, 1275-1285.	1.6	49
24	Inner-shell electron-impact ionization of neutral atoms. <i>Physical Review A</i> , 2006, 73, .	1.0	49
25	Electron-impact ionization of helium: A comprehensive experiment benchmarks theory. <i>Physical Review A</i> , 2011, 83, .	1.0	49
26	Exotic Dense-Matter States Pumped by a Relativistic Laser Plasma in the Radiation-Dominated Regime. <i>Physical Review Letters</i> , 2013, 110, 125001.	2.9	49
27	Lattice Calculations of the Photoionization of Li. <i>Physical Review Letters</i> , 2004, 93, 053201.	2.9	47
28	Controlling Two-Electron Threshold Dynamics in Double Photoionization of Lithium by Initial-State Preparation. <i>Physical Review Letters</i> , 2009, 103, 103008.	2.9	45
29	Double photoionization of beryllium. <i>Physical Review A</i> , 2002, 65, .	1.0	44
30	Low-energy electron-impact single ionization of helium. <i>Physical Review A</i> , 2006, 73, .	1.0	44
31	Application of the time-dependent close-coupling approach to few-body atomic and molecular ionizing collisions. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	43
32	Ejection of Quasi-Free-Electron Pairs from the Helium-Atom Ground State by Single-Photon Absorption. <i>Physical Review Letters</i> , 2013, 111, 013003.	2.9	43
33	Electron-impact ionization of all ionization stages of beryllium. <i>Physical Review A</i> , 2003, 68, .	1.0	42
34	Fully Correlated Electronic Dynamics for Antiproton Impact Ionization of Helium. <i>Physical Review Letters</i> , 2008, 100, 033201.	2.9	42
35	Strong Molecular Alignment Dependence of $\langle \mathbf{H} \rangle$ Electron Impact Ionization Dynamics. <i>Physical Review Letters</i> , 2012, 109, 123202.	2.9	41
36	THE LOS ALAMOS SUPERNOVA LIGHT-CURVE PROJECT: COMPUTATIONAL METHODS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 16.	3.0	41

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37	Light element opacities from ATOMIC. High Energy Density Physics, 2013, 9, 369-374.	0.4	41
38	Analysis of geological materials containing uranium using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 120, 1-8.	1.5	40
39	Collisional-radiative studies of carbon plasmas. High Energy Density Physics, 2006, 2, 90-96.	0.4	38
40	Fully differential cross sections for the single ionization of He by C ⁶⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 175205.	0.6	38
41	Interpretation of the BRITE oscillation data of the hybrid pulsator $\hat{1}\frac{1}{2}\hat{A}$ Eridani: a call for the modification of stellar opacities. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2284-2293.	1.6	38
42	$(\hat{1}^3,2e)$ total and differential cross-section calculations for helium at various excess energies. Physical Review A, 2002, 65, .	1.0	37
43	Los Alamos Opacities: Transition from LEDCOP to ATOMIC. AIP Conference Proceedings, 2004, , .	0.3	37
44	Triple differential cross sections for the electron-impact ionization of H for equal and unequal outgoing electron energies. Physical Review A, 2009, 79, .	1.0	37
45	Electron-impact ionization of atoms in high-temperature dense plasmas. Physical Review A, 2008, 77, .	1.0	36
46	Physical interpretation of the kinetic energy release effect in the double photoionization of H .	2.9	35
47	Total and differential cross-section calculations for the double photoionization of the helium $1s2s1,3S$ states. Physical Review A, 2003, 67, .	1.0	34
48	R-matrix-Floquet theory of molecular multiphoton processes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 143-167.	0.6	33
49	Time-dependent close-coupling calculations for the electron-impact ionization of carbon and neon. Physical Review A, 2000, 62, .	1.0	33
50	R-matrix Floquet theory of molecular multiphoton processes: II. Multiphoton ionization of H_2 . Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2089-2106.	0.6	33
51	Benchmark Nonperturbative Calculations for the Electron-Impact Ionization of $Li(2s)$ and $Li(2p)$. Physical Review Letters, 2001, 87, 213201.	2.9	33
52	Double and triple photoionization of Li and Be. Physical Review A, 2005, 72, .	1.0	33
53	Two-photon double ionization of the hydrogen molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 121002.	0.6	33
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55	Detailed analysis of hollow ions spectra from dense matter pumped by X-ray emission of relativistic laser plasma. <i>Physics of Plasmas</i> , 2014, 21, 031213.	0.7	33
56	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.	0.6	32
57	Nonlinear increase of X-ray intensities from thin foils irradiated with a 200 TW femtosecond laser. <i>Scientific Reports</i> , 2015, 5, 13436.	1.6	32
58	Double photoionization of Be and Mg atoms using the R-matrix-with-pseudostates method. <i>Physical Review A</i> , 2009, 79, .	1.0	31
59	Wider pulsation instability regions for $\hat{\nu}^2$ Cephei and SPB stars calculated using new Los Alamos opacities. <i>Astronomy and Astrophysics</i> , 2015, 580, L9.	2.1	31
60	Light element opacities of astrophysical interest from ATOMIC. <i>High Energy Density Physics</i> , 2015, 14, 33-37.	0.4	31
61	Deep interference minima in non-coplanar triple differential cross sections for the electron-impact ionization of small atoms and molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 171001.	0.6	30
62	The validity of classical trajectory and perturbative quantal methods for electron-impact ionization from excited states in H-like ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, L199-L206.	0.6	28
63	Large-scale kinetics modeling of non-LTE plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 175-185.	1.1	28
64	Energy relaxation rates in dense hydrogen plasmas. <i>Physical Review E</i> , 2008, 78, 036403.	0.8	28
65	Electron-impact ionization of H^2 at low projectile energy: Internormalized triple-differential cross sections in three-dimensional kinematics. <i>Physical Review A</i> , 2017, 95, .	1.0	28
66	Electron-impact excitation of beryllium and its ions. <i>Physical Review A</i> , 2003, 68, .	1.0	26
67	Double photoionization of helium at high photon energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1153-1164.	0.6	26
68	Collisional-radiative study of lithium plasmas. <i>Physical Review E</i> , 2004, 69, 066405.	0.8	26
69	Electron-impact ionization of H^2 using a time-dependent close-coupling method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, L285-L290.	0.6	26
70	Observation and modeling of high resolution spectral features of the inner-shell X-ray emission produced by 10^{10} contrast femtosecond-pulse laser irradiation of argon clusters. <i>High Energy Density Physics</i> , 2011, 7, 77-83.	0.4	25
71	Evidence for a T -Shape Break-Up Pattern in the Triple Photoionization of Li. <i>Physical Review Letters</i> , 2013, 110, 063001.	2.9	25
72	Measurement and simulations of hollow atom X-ray spectra of solid-density relativistic plasma created by high-contrast PW optical laser pulses. <i>High Energy Density Physics</i> , 2013, 9, 560-567.	0.4	25

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73	Electron- and photon-impact ionization of furfural. <i>Journal of Chemical Physics</i> , 2015, 143, 184310.	1.2	24
74	Time-dependent studies of single and multiple photoionization of H ₂ ⁺ . <i>Physical Review A</i> , 2003, 68, .	1.0	23
75	Generalised collisional-radiative model for light elements. A: Data for the Li isonuclear sequence. <i>Atomic Data and Nuclear Data Tables</i> , 2006, 92, 813-851.	0.9	23
76	Comparison of experimental and theoretical electron-impact-ionization triple-differential cross sections for ethane. <i>Physical Review A</i> , 2015, 92, .	1.0	23
77	Radiative properties of stellar envelopes: Comparison of asteroseismic results to opacity calculations and measurements for iron and nickel. <i>High Energy Density Physics</i> , 2013, 9, 473-479.	0.4	22
78	Phase discrimination of uranium oxides using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 91-97.	1.5	22
79	Atomic structure considerations for the low-temperature opacity of Sn. <i>High Energy Density Physics</i> , 2017, 23, 133-137.	0.4	22
80	Symmetrized complex amplitudes for He double photoionization from the time-dependent close-coupling and exterior complex scaling methods. <i>Physical Review A</i> , 2004, 70, .	1.0	21
81	Angular Distributions for the Complete Photofragmentation of the Li Atom. <i>Physical Review Letters</i> , 2012, 108, 053001.	2.9	21
82	Low energy (e,2e) coincidence studies of NH ₃ : Results from experiment and theory. <i>Journal of Chemical Physics</i> , 2013, 138, 174304.	1.2	21
83	Testing the reliability of non-LTE spectroscopic models for complex ions. <i>High Energy Density Physics</i> , 2013, 9, 523-527.	0.4	21
84	Model uncertainties of local-thermodynamic-equilibrium K-shell spectroscopy. <i>High Energy Density Physics</i> , 2016, 20, 17-22.	0.4	21
85	Electron impact ionization dynamics of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2016, 145, 164306.	1.2	21
86	Laser-induced breakdown spectroscopy of light water reactor simulated used nuclear fuel: Main oxide phase. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 133, 26-33.	1.5	21
87	Electron-impact ionization of Li ⁺ . <i>Physical Review A</i> , 2000, 61, .	1.0	20
88	Four-body model for transfer excitation. <i>Physical Review A</i> , 2009, 80, .	1.0	20
89	Spin effects in double photoionization of lithium. <i>Physical Review A</i> , 2010, 81, .	1.0	20
90	Electron-impact excitation of lithium. <i>Physical Review A</i> , 2001, 64, .	1.0	19

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91	Free-free opacity in dense plasmas with an average atom model. High Energy Density Physics, 2017, 23, 31-37.	0.4	19
92	Angular distributions from photoionization of H ₂ ⁺ . Physical Review A, 2007, 75, .	1.0	18
93	The role of hollow atoms in the spectra of an ultrashort-pulse-laser-driven Ar cluster target. Laser and Particle Beams, 2008, 26, 83-94.	0.4	18
94	Electron-impact excitation and ionization cross sections for the Si, Cl, and Ar isonuclear sequences. Physical Review A, 2008, 77, .	1.0	18
95	Electron-impact ionization cross sections of H^+ for low outgoing electron energies from H^+ to H^+ .	1.0	18
96	Comment on "Large Enhancement in High-Energy Photoionization of Fe XVII and Missing Continuum Plasma Opacity". Physical Review Letters, 2016, 117, 249501.	2.9	18
97	Time-dependent electron-impact scattering from He ⁺ using variable lattice spacings. Physical Review A, 2003, 67, .	1.0	17
98	Electron-impact double ionization of H ⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L127-L131.	0.6	17
99	Double ionization of helium by fast bare ion collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1695-1703.	0.6	17
100	Single and double ionization in C^6+ and He^+ collisions. Physical Review A, 2010, 82, .	1.0	17
101	Single and double photoionization of Be and Mg. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 035201.	0.6	17
102	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. Physical Review A, 2015, 92, .	1.0	17
103	X-ray absorption spectroscopy study of energy transport in foil targets heated by petawatt laser pulses. Photonics Research, 2018, 6, 234.	3.4	17
104	Time-dependent close-coupling studies of the electron-impact ionization of excited-state helium. Physical Review A, 2002, 66, .	1.0	16
105	Electron-impact ionization of O _q ⁺ ions for $q=1-4$. Physical Review A, 2003, 67, .	1.0	16
106	Electron-impact double ionization of magnesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 215204.	0.6	16
107	Photoionization of highly charged atomic ions. Physical Review A, 2010, 81, .	1.0	16
108	Electron-impact ionization of multiply charged manganese ions. Physical Review A, 2000, 63, .	1.0	15

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109	Total integral and ejected-energy differential cross sections for the electron-impact ionization of lithium. <i>Physical Review A</i> , 2001, 63, .	1.0	15
110	Energy and angle differential cross sections for the electron-impact double ionization of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 235202.	0.6	15
111	Doubly differential cross sections for the proton-impact double ionization of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 111002.	0.6	15
112	Total cross sections for the double photoionization of Li from the ground and excited states. <i>Physical Review A</i> , 2009, 80, .	1.0	15
113	Antiproton-impact ionization of H, He and Li. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 205204.	0.6	15
114	Single photoionization of highly charged atomic ions including the full electromagnetic-field potential. <i>Physical Review A</i> , 2012, 85, .	1.0	15
115	Ab-initio modeling of an iron laser-induced plasma: Comparison between theoretical and experimental atomic emission spectra. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 97, 65-73.	1.5	15
116	An equation of state for partially ionized plasmas: The Coulomb contribution to the free energy. <i>High Energy Density Physics</i> , 2015, 16, 36-40.	0.4	15
117	Seismic inversion of the solar entropy. <i>Astronomy and Astrophysics</i> , 2017, 607, A58.	2.1	15
118	Double autoionization of hollow-atom states. <i>Physical Review A</i> , 2005, 72, .	1.0	14
119	Energy differential cross sections for the triple photoionization of lithium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 1879-1887.	0.6	14
120	Electron-impact double ionization of B ^{+<sup>+</sup>} . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 105202.	0.6	14
121	DETAILED OPACITY COMPARISON FOR AN IMPROVED STELLAR MODELING OF THE ENVELOPES OF MASSIVE STARS. <i>Astrophysical Journal</i> , 2016, 823, 78.	1.6	14
122	The calculation of molecular multiphoton processes using the R-matrix-Floquet method. <i>Computer Physics Communications</i> , 1998, 114, 27-41.	3.0	13
123	The evolution of the triple differential cross sections for the double photoionization of He and H ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 4391-4402.	0.6	13
124	Electron-impact double ionization of helium at high energies. <i>Physical Review A</i> , 2007, 76, .	1.0	13
125	Generalized collisional radiative model for light elements. Part B: Data for the Be isonuclear sequence. <i>Atomic Data and Nuclear Data Tables</i> , 2008, 94, 257-321.	0.9	13
126	Diagnostics of the early stage of the heating of clusters by a femtosecond laser pulse from the spectra of hollow ions. <i>JETP Letters</i> , 2011, 94, 171.	0.4	13

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127	X-ray spectroscopy diagnoses of clusters surviving under prepulses of ultra-intense femtosecond laser pulse irradiation. <i>Laser and Particle Beams</i> , 2012, 30, 481-488.	0.4	13
128	Ab initio calculation of the non-relativistic free-free Gaunt factor incorporating plasma screening. <i>High Energy Density Physics</i> , 2014, 10, 61-69.	0.4	13
129	Observation of two-center interference effects for electron impact ionization of N^{2+} . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 155203.	0.6	13
130	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. <i>Astrophysical Journal</i> , 2017, 851, 64.	1.6	13
131	Internuclear separation dependence of the angular distributions from photoionization of H^{+2} . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 085202.	0.6	12
132	Modeling energy dependence of the inner-shell x-ray emission produced by femtosecond-pulse laser irradiation of xenon clusters. <i>Physical Review E</i> , 2009, 79, 016407.	0.8	12
133	Double photoionization of helium including quadrupole radiation effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 225204.	0.6	12
134	Electron-impact ionization of Li^2 using a time-dependent close-coupling method. <i>Physical Review A</i> , 2012, 85, .	1.0	12
135	Fully differential cross section for O^{8+} -impact ionization of Li. <i>Physical Review A</i> , 2013, 87, .	1.0	12
136	Evidence of high-n hollow-ion emission from Si ions pumped by ultraintense x-rays from relativistic laser plasma. <i>Europhysics Letters</i> , 2016, 114, 35001.	0.7	12
137	Ejected-energy differential cross sections for the near-threshold electron-impact ionization of hydrogen. <i>Physical Review A</i> , 2001, 63, .	1.0	11
138	Fourier transform method of calculating total cross sections using the time-dependent close-coupling theory. <i>Physical Review A</i> , 2002, 66, .	1.0	11
139	MUTA calculations of a laser-produced Mg hollow atom spectrum. <i>Physica Scripta</i> , 2008, 78, 015302.	1.2	11
140	Multi-Code Ab Initio Calculation of Ionization Distributions and Radiation Losses for Tungsten in Tokamak Plasmas. , 2009, , .		11
141	A collisional-radiative study of low temperature tungsten plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 075701.	0.6	11
142	Pentuple energy and angle differential cross sections for the electron-impact double ionization of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 215208.	0.6	11
143	Theoretical and experimental $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{/mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle e \langle \text{/mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{/mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle e \langle \text{/mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{/mml:mo} \rangle$ of electron-impact ionization of laser-aligned Mg atoms. <i>Physical Review A</i> , 2014, 90, .		11
144	Laser-induced breakdown spectroscopy using mid-infrared femtosecond pulses. <i>Journal of Applied Physics</i> , 2015, 118, 043107.	1.1	11

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145	Formation of a plasma with the determining role of radiative processes in thin foils irradiated by a pulse of the PEARL subpetawatt laser. JETP Letters, 2017, 105, 13-17.	0.4	11
146	Compact acceleration of energetic neutral atoms using high intensity laser-solid interaction. Scientific Reports, 2017, 7, 3871.	1.6	11
147	Iso-nuclear tungsten dielectronic recombination rates for use in magnetically-confined fusion plasmas. Atomic Data and Nuclear Data Tables, 2018, 119, 250-262.	0.9	11
148	Multiply-excited states and their contribution to opacity in CO ₂ laser-driven tin-plasma conditions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 035002.	0.6	11
149	Electron-impact excitation of Li to high principal quantum numbers. Physical Review A, 2003, 68, .	1.0	10
150	Nucleus-nucleus effects in differential cross sections for antiproton-impact ionization of H atoms. Physical Review A, 2013, 88, .	1.0	10
151	Triple differential cross sections for electron-impact ionization of methane at intermediate energy. Journal of Chemical Physics, 2019, 150, 194302.	1.2	10
152	Double photoionization processes in lithium. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 59-62.	0.8	9
153	Charge-dependent effects in double photoionization of He-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 5067-5078.	0.6	9
154	Double ionization of H^{2+} by fast bare-ion collisions. Physical Review A, 2009, 80, .	1.0	9
155	Antiproton-impact ionization of H ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 235201.	0.6	9
156	Electron-impact double ionization of beryllium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 105204.	0.6	9
157	Interference effects in L-shell atomic double photoionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 011002.	0.6	9
158	Nuclear-recoil differential cross sections for the two-photon double ionization of helium. Physical Review A, 2013, 87, .	1.0	9
159	Time-dependent calculations of electron energy distribution functions for neon gas in the presence of intense XFEL radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 235004.	0.6	9
160	Experimental and theoretical triple-differential cross sections for tetrahydrofuran ionized by low-energy 26-eV-electron impact. Physical Review A, 2016, 93, .	1.0	9
161	Laser-driven production of the antihydrogen molecular ion. Physical Review A, 2019, 100, .	1.0	9
162	Deep-Core Dielectronic-Capture Resonances in the Electron-Impact Ionization of Heavy Atomic Ions. Physical Review Letters, 2001, 86, 620-623.	2.9	8

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163	Electron-Pair Excitations and the Molecular Coulomb Continuum. <i>Physical Review Letters</i> , 2009, 103, 033002.	2.9	8
164	Differential cross sections of double photoionization of lithium. <i>Physical Review A</i> , 2010, 82, .	1.0	8
165	Non-LTE and gradient effects in K-shell oxygen emission laser-produced plasma. <i>High Energy Density Physics</i> , 2010, 6, 295-300.	0.4	8
166	Non-LTE studies of boron plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 144021.	0.6	8
167	Theoretical modeling and analysis of the emission spectra of a ChemCam standard: Basalt BIR-1A. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 110, 20-30.	1.5	8
168	Experimental and theoretical studies of laser-induced breakdown spectroscopy emission from iron oxide: Studies of atmospheric effects. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 122, 85-92.	1.5	8
169	Self-consistent Large-Scale Collisional-Radiative Modeling. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2016, , 17-50.	0.1	8
170	Recombination of Protons Accelerated by a High Intensity High Contrast Laser. <i>Physical Review Letters</i> , 2018, 121, 134801.	2.9	8
171	Deep Minima in the Triply Differential Cross Section for Ionization of Atomic Hydrogen by Electron and Positron Impact. <i>Atoms</i> , 2020, 8, 26.	0.7	8
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