

# Stephan Fritzsche

## List of Publications by Year in descending order

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337  
papers

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61857

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102304

66  
g-index

338  
all docs

338  
docs citations

338  
times ranked

3064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ratip – a toolbox for studying the properties of open-shell atoms and ions. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 1155-1164.	0.8	225
2	The Ratip program for relativistic calculations of atomic transition, ionization and recombination properties. Computer Physics Communications, 2012, 183, 1525-1559.	3.0	195
3	High Precision Wavelength Measurements of QED-Sensitive Forbidden Transitions in Highly Charged Argon Ions. Physical Review Letters, 2003, 91, 183001.	2.9	126
4	First Measurement of the Linear Polarization of Radiative Electron Capture Transitions. Physical Review Letters, 2006, 97, 223202.	2.9	112
5	Dominance of the Breit Interaction in the X-Ray Emission of Highly Charged Ions Following Dielectronic Recombination. Physical Review Letters, 2009, 103, 113001.	2.9	112
6	First Observation of Atomic Levels for the Element Fermium (Z=100). Physical Review Letters, 2003, 90, 163002.	2.9	106
7	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	1.2	101
8	Spins, Electromagnetic Moments, and Isomers of $^{107}\text{Cd}$ . Physical Review Letters, 2013, 110, 192501.	2.9	99
9	Early Onset of Ground State Deformation in Neutron Deficient Polonium Isotopes. Physical Review Letters, 2011, 106, 052503.	2.9	94
10	RELIC: A program for relativistic configuration interaction calculations. Computer Physics Communications, 2002, 148, 103-123.	3.0	92
11	Large-Scale Accurate Structure Calculations for Open-Shell Atoms and Ions. Physica Scripta, 2002, T100, 37.	1.2	90
12	Towards high-resolution laser ionization spectroscopy of the heaviest elements in supersonic gas jet expansion. Nature Communications, 2017, 8, 14520.	5.8	90
13	Lyman- $\epsilon$ 1 Decay in Hydrogenlike Ions: Interference between the E1 and M2 Transition Amplitudes. Physical Review Letters, 2002, 88, 153001.	2.9	89
14	Measurement of the first ionization potential of astatine by laser ionization spectroscopy. Nature Communications, 2013, 4, 1835.	5.8	89
15	Spectroscopic LSJ notation for atomic levels obtained from relativistic calculations. Computer Physics Communications, 2004, 157, 239-253.	3.0	87
16	Two-photon double ionization of Ne by free-electron laser radiation: a kinematically complete experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 141002.	0.6	87
17	Coherence and correlations in photoinduced Auger and fluorescence cascades in atoms. Physics Reports, 2007, 451, 155-233.	10.3	86
18	Program to calculate pure angular momentum coefficients in $jj$ -coupling. Computer Physics Communications, 2001, 139, 263-278.	3.0	85

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19	Relativistic quantum dynamics in strong fields: photon emission from heavy, few-electron ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S707-S726.	0.6	84
20	Direct Determination of the Magnetic Quadrupole Contribution to the Lyman- $I_{\pm 1}$ Transition in a Hydrogenlike Ion. Physical Review Letters, 2010, 105, 243002.	2.9	79
21	Atomic ionization of hydrogen-like ions by twisted photons: angular distribution of emitted electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 205002.	0.6	76
22	REOS99: A revised program for transition probability calculations including relativistic, correlation, and relaxation effects. Computer Physics Communications, 2000, 124, 340-352.	3.0	75
23	Absorption of twisted light by hydrogenlike atoms. Physical Review A, 2014, 90, .	1.0	73
24	A fresh computational approach to atomic structures, processes and cascades. Computer Physics Communications, 2019, 240, 1-14.	3.0	72
25	Radiative recombination into high-Z few-electron ions: Cross sections and angular distributions. Physical Review A, 2005, 72, .	1.0	70
26	Electronic structure theory of the superheavy elements. Nuclear Physics A, 2015, 944, 518-550.	0.6	69
27	Influence of dense plasma on the low-lying transitions in Be-like ions: relativistic multiconfiguration Dirac-Fock calculation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 259-270.	0.6	66
28	Angular distributions and angular correlations in sequential two-photon double ionization of atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 165601.	0.6	65
29	Laser spectroscopy of radioactive isotopes: Role and limitations of accurate isotope-shift calculations. Physical Review A, 2012, 86, .	1.0	65
30	Angular momentum-induced delays in solid-state photoemission enhanced by intra-atomic interactions. Science, 2017, 357, 1274-1277.	6.0	65
31	Probing Sizes and Shapes of Nobelium Isotopes by Laser Spectroscopy. Physical Review Letters, 2018, 120, 232503.	2.9	63
32	Reduced L1 level width and Coster-Kronig yields by relaxation and continuum interactions in atomic zinc. Physical Review A, 1992, 45, 1465-1470.	1.0	59
33	Theoretical Auger and photoionization studies for open-shell atoms and ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 93-98.	0.6	56
34	Polarization studies on the radiative recombination of highly charged bare ions. Physical Review A, 2003, 68, .	1.0	53
35	Ground state properties of manganese isotopes across the shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 346-351.	1.5	53
36	CALCULATED LEVEL ENERGIES, TRANSITION PROBABILITIES, AND LIFETIMES OF SILICON-LIKE IONS. Atomic Data and Nuclear Data Tables, 1998, 70, 63-92.	0.9	52

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37	Electron-impact excitation of singly charged metal ions. <i>Physical Review A</i> , 2011, 83, .	1.0	52
38	Polarization measurement of dielectronic recombination transitions in highly charged krypton ions. <i>Physical Review A</i> , 2015, 92, .	1.0	48
39	Maple procedures for the coupling of angular momenta. V. Recoupling coefficients. <i>Computer Physics Communications</i> , 2001, 139, 314-326.	3.0	45
40	Nuclear charge radii and electromagnetic moments of radioactive scandium isotopes and isomers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 025104.	1.4	45
41	Application of Radiative Electron Capture for the Diagnostics of Spin-Polarized Ion Beams at Storage Rings. <i>Physical Review Letters</i> , 2005, 94, 203202.	2.9	43
42	Radiative electron capture into high-Z few-electron ions: Alignment of the excited ionic states. <i>Physical Review A</i> , 2006, 73, .	1.0	43
43	Interaction of twisted light with many-electron atoms and ions. <i>Physical Review A</i> , 2015, 91, .	1.0	43
44	Ab-initio calculation of the $2s21S_0-2s3p3P_1$ intercombination transition in beryllium-like ions. <i>Physica Scripta</i> , 1994, 50, 473-480.	1.2	42
45	Algebraic tools for dealing with the atomic shell model. I. Wavefunctions and integrals for hydrogen-like ions. <i>Computer Physics Communications</i> , 2005, 165, 139-156.	3.0	42
46	$\langle i \rangle$ Ab initio calculations of the $2s^2 2p^3$ splitting in boronlike ions. <i>Physical Review A</i> , 2013, 88, .	3.1	42
47	Linear polarization of x-ray transitions due to dielectronic recombination in highly charged ions. <i>Physical Review A</i> , 2015, 91, .	1.0	42
48	Charge Radii of Neutron Deficient $^{52}\text{Fe}$ by Projectile Fragmentation. <i>Physical Review Letters</i> , 2016, 117, 252501.	2.9	42
49	Branching ratios and lifetimes for the low-lying levels of Fe xx. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 307, 809-814.	1.6	41
50	Generation of four-partite Greenberger-Horne-Zeilinger and W states by using a high-finesse bimodal cavity. <i>Physical Review A</i> , 2008, 77, .	1.0	41
51	Two-Photon Excitation and Relaxation of the $3d^3$ Resonance in Atomic Kr. <i>Physical Review Letters</i> , 2010, 104, 213001.	2.9	41
52	Electron- and Proton-Impact Excitation of Hydrogenlike Uranium in Relativistic Collisions. <i>Physical Review Letters</i> , 2013, 110, 213201.	2.9	41
53	Interferences in the $3p4n$ satellite emission following the excitation of argon across the $2p1\hat{a}^*254s$ and $2p3\hat{a}^*253d$ resonances. <i>Physical Review A</i> , 2007, 75, .	1.0	40
54	Near L-edge Single and Multiple Photoionization of Singly Charged Iron Ions. <i>Astrophysical Journal</i> , 2017, 849, 5.	1.6	39

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55	Tailored orbital angular momentum in high-order harmonic generation with bicircular Laguerre-Gaussian beams. <i>Physical Review A</i> , 2018, 98, .	1.0	39
56	Ionization potentials and radii of neutral and ionized species of elements 107 (bohrium) and 108 (hassium) from extended multiconfiguration Dirac-Fock calculations. <i>Journal of Chemical Physics</i> , 2002, 116, 1862-1868.	1.2	37
57	Compton scattering of twisted light: Angular distribution and polarization of scattered photons. <i>Physical Review A</i> , 2015, 92, .	1.0	37
58	REOS – A program for relaxed-orbital oscillator strength calculations. <i>Computer Physics Communications</i> , 1997, 99, 323-334.	3.0	36
59	On the accuracy of valence-shell computations for heavy and super-heavy elements. <i>European Physical Journal D</i> , 2005, 33, 15-21.	0.6	36
60	Angular distribution of the dielectronic satellite lines from relativistic high-Z ions: Multipole-mixing effects. <i>Physical Review A</i> , 2008, 78, .	1.0	36
61	Cu charge radii reveal a weak sub-shell effect at N=40. <i>Physical Review C</i> , 2016, 93, .	1.1	36
62	Maple procedures for the coupling of angular momenta I. Data structures and numerical computations. <i>Computer Physics Communications</i> , 1997, 103, 51-73.	3.0	35
63	Photon polarization in the radiative recombination of high-Z, hydrogen-like ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 289, 213-218.	0.9	35
64	Experimental and theoretical study of the Auger cascade following $2p \rightarrow 4s$ photoexcitation in Ar. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 107-119.	0.6	35
65	Photon-photon angular correlations in the radiative recombination of bare high-Z ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 3713-3727.	0.6	35
66	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. <i>Hyperfine Interactions</i> , 2010, 196, 115-127.	0.2	35
67	Charge radii and electromagnetic moments of $^{195}\text{Au}^{87+}$ and $^{211}\text{Rn}^{87+}$ . <i>Physical Review C</i> , 2019, 87, .	1.1	35
68	Angular correlations in the two-photon decay of hydrogenlike ions: Relativistic Green's-function approach. <i>Physical Review A</i> , 2005, 71, .	1.0	34
69	Energy dependence of angular momentum capture states in charge exchange collisions between slow highly charged argon ions and argon neutrals. <i>Physical Review A</i> , 2008, 78, .	1.0	34
70	Spectral Shape of the Two-Photon Decay of the $2s^2$ State in He-Like Tin. <i>Physical Review Letters</i> , 2010, 104, 033001.	2.9	34
71	First Optical Hyperfine Structure Measurement in an Atomic Anion. <i>Physical Review Letters</i> , 2010, 104, 073004.	2.9	34
72	CALCULATED LEVEL ENERGIES, TRANSITION PROBABILITIES, AND LIFETIMES FOR PHOSPHORUS-LIKE IONS OF THE IRON GROUP IN THE $3s3p4d$ AND $3s23p23d$ CONFIGURATIONS. <i>Atomic Data and Nuclear Data Tables</i> , 1998, 68, 149-179.	0.9	33

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73	High resolution angle-resolved measurements of Auger emission from the photo-excited 1s-13p state of Ne. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L685-L689.	0.6	33
74	Experimental and theoretical study of the Auger cascade following 3d <sup>+</sup> 5p photoexcitation in Kr. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3829-3842.	0.6	33
75	Sequential two-photon double ionization of Kr atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145602.	0.6	33
76	First Ionization Potentials of Fm, Md, No, and Lr: Verification of Filling-Up of 5f Electrons and Confirmation of the Actinide Series. Journal of the American Chemical Society, 2018, 140, 14609-14613.	6.6	33
77	Lifetime and hyperfine structure of the 3D <sub>2</sub> state of radium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L305-L311.	0.6	32
78	Relativistic, relaxation, and correlation effects in spectra of Cu <sup>II</sup> . Physical Review A, 2005, 72, .	1.0	32
79	Entanglement dynamics of three-qubit states in noisy channels. European Physical Journal D, 2010, 60, 397-403.	0.6	32
80	Mass- and field-shift isotope parameters for the $2s$ doublet of lithiumlike ions. Physical Review A, 2012, 86, .	1.0	32
81	Resonance ionization spectroscopy of fermium (Z=100). Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 1077-1082.	1.5	31
82	Photoelectron recapture as a tool for the spectroscopy of ionic Rydberg states. Physical Review A, 2004, 70, .	1.0	31
83	Photoexcitation of atoms by Laguerre-Gaussian beams. Physical Review A, 2017, 96, .	1.0	31
84	Ultrafast quantum control of ionization dynamics in krypton. Nature Communications, 2018, 9, 719.	5.8	31
85	High harmonic generation with Laguerre-Gaussian beams. Journal of Optics (United Kingdom), 2019, 21, 094001.	1.0	31
86	Nondipole strong-field approximation for spatially structured laser fields. Physical Review A, 2019, 99, .	1.0	31
87	Understanding the Uniqueness of 2p Elements in Periodic Tables. Chemistry - A European Journal, 2020, 26, 15558-15564.	1.7	31
88	Hyperfine-induced effects on the linear polarization of the $K_{\pm 1}$ lines from heliumlike ions. Physical Review A, 2013, 87, .	1.0	30
89	Monte Carlo approach to calculate proton stopping in warm dense matter within particle-in-cell simulations. Physical Review E, 2017, 95, 023207.	0.8	30
90	Energy levels, lifetimes and branch fractions for Fe XI. Monthly Notices of the Royal Astronomical Society, 2000, 318, 263-272.	1.6	29

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91	Ground-state hyperfine splitting for Rb, Cs, Fr, $\langle \mathcal{M} \rangle$ , and $\langle \mathcal{M} \rangle$ , and $\langle \mathcal{M} \rangle$ . <i>Physical Review A</i> , 2017, 96, .	1.0	29
92	Simulation of n-qubit quantum systems. I. Quantum registers and quantum gates. <i>Computer Physics Communications</i> , 2005, 173, 91-113.	3.0	28
93	Universal scaling of resonances in vector correlation photoionization parameters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 2545-2553.	0.6	28
94	Observation of Coherence in the Time-Reversed Relativistic Photoelectric Effect. <i>Physical Review Letters</i> , 2014, 113, 113001.	2.9	28
95	Prominent role of multielectron processes in $K$ -shell double and triple photodetachment of oxygen anions. <i>Physical Review A</i> , 2016, 94, .	1.0	28
96	The excitation energies, ionization potentials and oscillator strengths of neutral and ionized species of Uub ( $Z=112$ ) and the homologue elements Zn, Cd and Hg. <i>European Physical Journal D</i> , 2007, 44, 51-56.	0.6	27
97	In-gas laser ionization and spectroscopy of actinium isotopes near the $N=126$ closed shell. <i>Physical Review C</i> , 2017, 96, .	1.1	27
98	Angular distribution parameters in the resonant xenon $4d^{-1}6p$ Auger spectra. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 180, 262-268.	0.9	26
99	Polarization transfer in the inner-shell photoionization of sodiumlike ions. <i>Physical Review A</i> , 2010, 81, .	1.0	26
100	Hyperfine-induced modifications to the angular distribution of the $K$ -shell emission. <i>Physical Review A</i> , 2014, 89, .	1.0	26
101	Atomic Cascade Computations. <i>Symmetry</i> , 2021, 13, 520.	1.1	26
102	CESD97 – A revised version to expand $j$ -coupled symmetry functions into determinants. <i>Computer Physics Communications</i> , 1997, 103, 277-286.	3.0	25
103	Maple procedures for the coupling of angular momenta II. Sum rule evaluation. <i>Computer Physics Communications</i> , 1998, 111, 167-184.	3.0	25
104	Maple procedures for the coupling of angular momenta. III. Standard quantities for evaluating many-particle matrix elements. <i>Computer Physics Communications</i> , 2001, 135, 219-237.	3.0	25
105	State-selective electron capture into He-like $U90+$ ions in collisions with gaseous targets. <i>Physical Review A</i> , 2001, 64, .	1.0	25
106	Angular correlation between Auger electrons successively emitted from photoexcited resonances in Kr and Xe. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 319-329.	0.6	25
107	Effects of the open-shell electronic structure in $4d$ photoionization and Auger decay of atomic Sn. <i>Physical Review A</i> , 2004, 69, .	1.0	25
108	Laser excitation combined with $2p$ photoionization and Auger decay of potassium. <i>Physical Review A</i> , 2006, 73, .	1.0	25

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109	The low-lying level structure of atomic lawrencium ( $Z=103$ ): energies and absorption rates. European Physical Journal D, 2007, 45, 107-113.	0.6	25
110	Maximum Elliptical Dichroism in Atomic Two-Photon Ionization. Physical Review Letters, 2018, 121, 053401.	2.9	25
111	Angular correlations in the two-photon decay of heliumlike heavy ions. Physical Review A, 2010, 81, .	1.0	24
112	Relativistic polarization analysis of Rayleigh scattering by atomic hydrogen. Physical Review A, 2012, 86, .	1.0	24
113	Nuclear mean-square charge radii of $^{63}\text{Zn}$ , $^{64}\text{Zn}$ , and $^{66}\text{Zn}$ nuclei: No anomalous behavior at $N=32$ . Physical Review C, 2012, 86, .	1.1	24
114	Particle-in-cell simulations of laser-plasma interactions at solid densities and relativistic intensities: the role of atomic processes. High Power Laser Science and Engineering, 2018, 6, .	2.0	24
115	Controlling quantum random walk with a step-dependent coin. New Journal of Physics, 2018, 20, 083028.	1.2	24
116	Multiple Photodetachment of Carbon Anions via Single and Double Core-Hole Creation. Physical Review Letters, 2020, 124, 083203.	2.9	24
117	Doppler-Free Resonant Raman Auger Spectroscopy of $\text{Ne}+2s2p53p$ Excited States. Physical Review Letters, 2003, 90, 153005.	2.9	23
118	Investigation of valence inter-multiplet Auger transitions in Ne following 1s photoelectron recapture. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2229-2243.	0.6	23
119	Storage-ring measurement and relativistic total cross section and angular distribution for Rayleigh scattering by atomic hydrogen. Physical Review A, 2012, 85, .	1.0	23
120	Relativistic total cross section and angular distribution for Rayleigh scattering by atomic hydrogen. Physical Review A, 2012, 85, .	1.0	23
121	Changes in nuclear structure along the Mn isotopic chain studied via charge radii. Physical Review C, 2016, 94, .	1.1	23
122	Monte Carlo approach to calculate ionization dynamics of hot solid-density plasmas within particle-in-cell simulations. Physical Review E, 2017, 95, 023208.	0.8	23
123	Simulation of n-qubit quantum systems. II. Separability and entanglement. Computer Physics Communications, 2006, 175, 145-166.	3.0	22
124	Relativistic configuration-interaction calculation of $K\pm$ transition energies in berylliumlike iron. Physical Review A, 2014, 90, .	1.0	22
125	Isotope shifts from collinear laser spectroscopy of doubly charged yttrium isotopes. Physical Review A, 2018, 97, .	1.0	22
126	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171003.	0.6	22



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127	Many-electron effects in 2p photoionization and Auger decay of atomic aluminium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3435-3451.	0.6	21
128	Two-photon absorption of few-electron heavy ions. Physical Review A, 2011, 84, .	1.0	21
129	Many-electron effects on x-ray Rayleigh scattering by highly charged He-like ions. Physical Review A, 2016, 93, .	1.0	21
130	Interchannel interactions in highly energetic radiationless transitions of neonlike ions. Physical Review A, 1991, 44, 388-391.	1.0	20
131	Reduced Coefficients of Fractional Parentage and Matrix Elements of the Tensor $W(kq_kj)$ in $jj$ -Coupling. Atomic Data and Nuclear Data Tables, 2000, 76, 235-269.	0.9	20
132	Maple procedures for the coupling of angular momenta. VII. Extended and accelerated computations. Computer Physics Communications, 2003, 153, 424-444.	3.0	20
133	Relativistic and retardation effects in the two-photon ionization of hydrogen-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 873-878.	0.6	20
134	Near L-edge Single and Multiple Photoionization of Triply Charged Iron Ions. Astrophysical Journal, 2019, 887, 189.	1.6	20
135	Polarization correlations in the elastic Rayleigh scattering of photons by hydrogenlike ions. Physical Review A, 2013, 88, .	1.0	19
136	Electron-ion collision spectroscopy: Lithium-like xenon ions. Physical Review A, 2015, 91, .	1.0	19
137	Strong higher-order resonant contributions to x-ray line polarization in hot plasmas. Physical Review E, 2016, 93, 061201.	0.8	19
138	High-order implicit particle-in-cell method for plasma simulations at solid densities. Physical Review E, 2019, 100, 013207.	0.8	19
139	Photoexcitation of K-shell and L-shell Hollow Beryllium. Physical Review Letters, 2006, 97, 023001.	2.9	18
140	Gas-solid difference in charge-changing cross sections for bare and H-like nickel ions at 200 MeV $\alpha$ particles. Physical Review A, 2007, 75, .	1.0	18
141	Multiconfiguration Dirac-Hartree-Fock calculations of the electric dipole moment of radium induced by the nuclear Schiff moment. Physical Review A, 2009, 80, .	1.0	18
142	Determination of small level splittings in highly charged ions via angle-resolved measurements of characteristic x rays. Physical Review A, 2014, 90, .	1.0	18
143	Ionization of $H$ by twisted Bessel light. Physical Review A, 2015, 92, .	1.0	18
144	$Ab$ initio MCDHF calculations of electron-nucleus interactions. Physica Scripta, 2015, 90, 054011.	1.2	18

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145	Two-color above-threshold ionization of atoms and ions in XUV Bessel beams and intense laser light. Physical Review A, 2016, 94, .	1.0	18
146	Probing the energy flow in Bessel light beams using atomic photoionization. Physical Review A, 2016, 94, .	1.0	18
147	Experimental and theoretical study of the Auger cascade following $4d \rightarrow 6p$ photoexcitation in Xe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 3327-3335.	0.6	17
148	Electron angular distributions in the two-photon ionization of hydrogen-like ions: a relativistic description. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 375-388.	0.6	17
149	Photoelectron satellite structure from the $3d \rightarrow 4p$ ionization of rubidium and cesium: Role of atomic relaxation. Physical Review A, 2008, 78, .	1.0	17
150	Radiative electron capture and subsequent radiative decay in collisions of $U^{89+}$ ions with $N_2$ . Physical Review A, 2009, 79, .	1.0	17
151	Multiconfiguration calculations of electronic isotope shift factors in Al i. Physical Review A, 2016, 94, .	1.0	17
152	Linear polarization of the characteristic x-ray lines following inner-shell photoionization of tungsten. Physical Review A, 2016, 93, .	1.0	17
153	Above-threshold ionization by few-cycle Bessel pulses carrying orbital angular momentum. Physical Review A, 2018, 98, .	1.0	17
154	The photon-ion merged beams experiment PIPE at PETRA – The first five years. X-Ray Spectrometry, 2020, 49, 11-20.	0.9	17
155	Near L-edge Single and Multiple Photoionization of Doubly Charged Iron Ions. Astrophysical Journal, 2021, 908, 52.	1.6	17
156	Maple procedures for the coupling of angular momenta. IV. Spherical harmonics. Computer Physics Communications, 2001, 139, 297-313.	3.0	16
157	Maple procedures for the coupling of angular momenta. VI. jj transformations. Computer Physics Communications, 2002, 149, 39-60.	3.0	16
158	Study of second-step Auger transitions in Auger cascades following $1s \rightarrow 3p$ photoexcitation in Ne. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 465-486.	0.6	16
159	A study of inner-valence Auger transitions in Ne+ induced by the resonant Auger decay of photoexcited Ne $1s \rightarrow 1np$ states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1299-1322.	0.6	16
160	Effects of initial-state laser excitation on inner-shell photoionization and Auger decay of Rb. Physical Review A, 2006, 74, .	1.0	16
161	$K\alpha$ radiation from heavy, heliumlike ions produced in relativistic collisions. Physical Review A, 2006, 74, .	1.0	16
162	Inner-shell $2p \rightarrow 2s$ photoionization and Auger decay of atomic silicon. Physical Review A, 2008, 77, .	1.0	16

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163	Photon pairs with tailor-made entanglement obtained from the two-photon decay of atomic hydrogen. <i>Physical Review A</i> , 2008, 77, .	1.0	16
164	Alignment of heavy few-electron ions following excitation by relativistic Coulomb collisions. <i>Physical Review A</i> , 2008, 77, .	1.0	16
165	Generation of two-dimensional cluster states by using high-finesse bimodal cavities. <i>Physical Review A</i> , 2009, 79, .	1.0	16
166	Electron emission from highly charged ions: signatures of magnetic interactions and retardation in strong fields. <i>New Journal of Physics</i> , 2012, 14, 083018.	1.2	16
167	Rayleigh x-ray scattering from many-electron atoms and ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144015.	0.6	16
168	Rayleigh scattering of twisted light by hydrogenlike ions. <i>Physical Review A</i> , 2018, 97, .	1.0	16
169	QED radiative corrections to the $\langle \mathbf{m} \rangle$ of hydrogenlike ions. <i>Physical Review A</i> , 2019, 100, .	1.0	16
170	Plasma environment effects on K lines of astrophysical interest. <i>Astronomy and Astrophysics</i> , 2019, 624, A74.	2.1	16
171	Fidelity susceptibility near topological phase transitions in quantum walks. <i>Physical Review B</i> , 2020, 102, .	1.1	16
172	Simulation of n-qubit quantum systems. IV. Parametrizations of quantum states, matrices and probability distributions. <i>Computer Physics Communications</i> , 2008, 179, 647-664.	3.0	15
173	Quantum correlations in the two-photon decay of few-electron ions. <i>Physical Review A</i> , 2011, 83, .	1.0	15
174	Parametrization of the angular correlation and degree of linear polarization in two-photon decays of hydrogenlike ions. <i>Physical Review A</i> , 2012, 86, .	1.0	15
175	Photoionization of neutral atoms by $X$ waves carrying orbital angular momentum. <i>Physical Review A</i> , 2016, 94, .	1.0	15
176	Enhanced entanglement from Ince-Gaussian pump beams in spontaneous parametric down-conversion. <i>Physical Review A</i> , 2020, 102, .	1.0	15
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