

# Steven T Manson

## List of Publications by Year in descending order

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121  
papers

3,883  
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126858

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121  
docs citations

121  
times ranked

1117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative intensities in photoelectron spectroscopy of atoms and molecules. Journal of Electron Spectroscopy and Related Phenomena, 1976, 8, 389-394.	0.8	576
2	Photoelectron angular distributions: energy dependence for subshells. Reviews of Modern Physics, 1982, 54, 389-405.	16.4	202
3	Energy and angular distribution of electrons ejected from helium by fast protons and electrons: Theory and experiment. Physical Review A, 1975, 12, 60-79.	1.0	191
4	Photo-ionization in the Soft X-Ray Range: Angular Distributions of Photoelectrons and Interpretation in Terms of Subshell Structure. Physical Review, 1969, 177, 157-163.	2.7	159
5	Photoionization of chalcogen and halogen atoms: Cross sections and angular distributions. Physical Review A, 1979, 20, 1005-1018.	1.0	110
6	Breakdown of the Independent Particle Approximation in High-Energy Photoionization. Physical Review Letters, 1997, 78, 4553-4556.	2.9	100
7	Effects of anisotropic electron-ion interactions in atomic photoelectron angular distributions. Physical Review A, 1975, 11, 1596-1606.	1.0	94
8	Photoionization of $C_{60}$ : a model study. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 105101.	0.6	88
9	Multiple-ionization channels in proton-atom collisions. Physical Review A, 1987, 35, 2007-2025.	1.0	87
10	Atomic Photoelectron Spectroscopy, Part I. Advances in Electronics and Electron Physics, 1976, , 73-111.	0.6	78
11	Quantum defect values for positive atomic ions. Atomic Data and Nuclear Data Tables, 1986, 35, 473-486.	0.9	76
12	Generality and Systematics of Multiple Minima in Photoionization Cross Sections of Excited Atoms. Physical Review Letters, 1982, 48, 473-475.	2.9	69
13	New Minima in Photoionization Cross Section. Physical Review Letters, 1975, 35, 364-366.	2.9	65
14	Systematics of zeros in dipole matrix elements for photoionizing transitions: Nonrelativistic calculations. Physical Review A, 1985, 31, 3698-3703.	1.0	64
15	Photoionization of Xe inside $C_{60}$ : Atom-fullerene hybridization, giant cross-section enhancement, and correlation confinement		
16	Giant Enhancement in Low Energy Photoemission of Ar Confined in $C_{60}$ . Physical Review Letters, 2007, 99, 243003.	2.9	59
17	Photoelectron angular distributions, cross sections, and branching ratios for atomic oxygen. Physical Review A, 1974, 9, 2453-2458.	1.0	57
18	Multiple Minima in Photoionization Cross Sections of Excited Atoms. Physical Review Letters, 1982, 48, 614-616.	2.9	53

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19	Satellite lines in photoelectron spectra. Journal of Electron Spectroscopy and Related Phenomena, 1976, 9, 21-28.	0.8	52
20	Differential cross sections for ionization of methane, ammonia, and water vapor by high velocity ions. Journal of Chemical Physics, 1984, 80, 5631-5638.	1.2	52
21	Oscillator-strength distributions for discrete and continuum transitions of excited states of cesium. Physical Review A, 1986, 33, 3151-3165.	1.0	52
22	Photoionization of positive ions.II. Iron. Physical Review A, 1978, 18, 2124-2130.	1.0	48
23	Photoelectron Angular Distributions of Electrons in Open-Shell Atoms. Physical Review Letters, 1977, 38, 1522-1525.	2.9	46
24	Photoionization of magnesium in the relativistic random-phase approximation. Physical Review A, 1983, 28, 209-217.	1.0	44
25	Atomic Photoelectron Spectroscopy. II. Advances in Electronics and Electron Physics, 1978, 44, 1-32.	0.6	43
26	Energy distributions of secondary electrons. III. Projectile energy dependence for ionization of He, Ne, and Ar by protons. Physical Review A, 1978, 17, 148-159.	1.0	42
27	Electron emission in He <sup>+</sup> -atom and He <sup>+</sup> -molecule collisions: A combined experimental and theoretical study. Physical Review A, 1990, 42, 1222-1230.	1.0	42
28	Relativistic, retardation, and multipole effects in photoionization cross sections: Z, n, and l dependence. Physical Review A, 1994, 50, 1312-1320.	1.0	42
29	Enhanced Nondipole Effects in Low Energy Photoionization. Physical Review Letters, 1999, 83, 939-942.	2.9	41
30	Nondipole effects in the photoionization of neon: Random-phase approximation. Physical Review A, 1999, 59, 3609-3613.	1.0	38
31	Photoelectron Angular Distributions as a Probe of Anisotropic Electron-Ion Interactions. Physical Review Letters, 1974, 32, 971-974.	2.9	37
32	Energy and Angular Distributions of Electrons from Fast He <sup>++</sup> -He Collisions. Physical Review Letters, 1981, 46, 529-531.	2.9	37
33	Relativistic Effects in the Photoionization of High-Z Elements: Splittings and Shifts of Minima. Physical Review Letters, 1981, 46, 1326-1329.	2.9	36
34	Photoionization of atomic beryllium from the ground state. Physical Review A, 2000, 61, .	1.0	33
35	Photoelectron angular distributions for the outer shell of the alkali-metal atoms. Physical Review A, 1979, 20, 2364-2369.	1.0	32
36	Photoionization of inner shells of excited atoms: Dominance of two-electron transitions. Physical Review Letters, 1992, 68, 1687-1689.	2.9	31

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37	Photodetachment of the $1s2s2p^4P$ state of $\text{He}^+$ from threshold to 100 eV. <i>Physical Review A</i> , 1997, 55, 414-425.	1.0	31
38	Radiative recombination and excited-state photoionization of lithium. <i>Physical Review A</i> , 1993, 48, 3674-3679.	1.0	30
39	Photoionization of hybrid states in endohedral fullerenes. <i>Physical Review A</i> , 2009, 79, .	1.0	30
40	Dynamical effects of confinement on atomic valence photoionization in $\text{Mg}@C_{60}$ . <i>Physical Review A</i> , 2008, 78, .	1.0	29
41	Photoionization of positive ions: Outer subshells of the noble-gas isoelectronic sequence. <i>Physical Review A</i> , 1977, 15, 668-674.	1.0	26
42	Dirac-Fock calculations of atomic photoionization: Branching ratios and angular distributions in the outer shells of the noble gases. <i>Physical Review A</i> , 1980, 21, 842-850.	1.0	25
43	Photoionization cross-section, angular-distribution, and spin-polarization calculations for the $3p$ and $3d$ subshells of krypton. <i>Physical Review A</i> , 1988, 37, 4720-4729.	1.0	24
44	Differential cross sections for ionization of helium, neon, and argon by high-velocity ions. <i>Physical Review A</i> , 1983, 27, 1337-1344.	1.0	23
45	Photoionization of $5d$ and $4f$ subshells of high-Z elements. <i>Physical Review A</i> , 1984, 30, 256-269.	1.0	23
46	Coincidence Study of Doubly Differential Cross Sections: Projectile Ionization in $\text{He}^+-\text{He}$ Collisions. <i>Physical Review Letters</i> , 1986, 57, 1130-1132.	2.9	23
47	Photoionization of positive ions. I. Oxygen. <i>Physical Review A</i> , 1977, 15, 1001-1005.	1.0	22
48	Photoionization of the $\text{Cs} 6d$ excited state. <i>Physical Review A</i> , 1984, 29, 1594-1595.	1.0	22
49	Photoionization of inner shells of the Mg and Ar isonuclear sequences. <i>Physical Review A</i> , 1989, 40, 6091-6094.	1.0	22
50	Dirac-Fock calculations of photoelectron angular distributions of the outer shells of the noble gases. <i>Physical Review A</i> , 1979, 19, 688-693.	1.0	21
51	Photodetachment of in the vicinity of the $1s$ threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, L1-L7.	0.6	21
52	Resonant Auger-intersite-Coulombic hybridized decay in the photoionization of endohedral fullerenes. <i>Physical Review A</i> , 2014, 89, .	1.0	20
53	Branching ratios of $\text{Hg} 5d$ and $\text{Cd} 4d$ : Dirac-Fock calculations. <i>Physical Review A</i> , 1981, 23, 799-803.	1.0	19
54	Multiple-Ionization Mechanisms in Fast Proton-Neon Collisions. <i>Physical Review Letters</i> , 1983, 51, 1542-1545.	2.9	19

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55	Photoionization of the outer shells of radon and radium: Relativistic random-phase approximation for high-Zatoms. <i>Physical Review A</i> , 1992, 45, 6339-6348.	1.0	19
56	Experimental investigation of nondipole effects in photoemission at the advanced light source. <i>Radiation Physics and Chemistry</i> , 2006, 75, 2258-2274.	1.4	19
57	Angular distribution of photoelectrons from atomic oxygen, nitrogen and carbon. <i>Planetary and Space Science</i> , 1974, 22, 1535-1543.	0.9	18
58	Ratio of double to single ionization of helium: The relationship between ionization by photons and by bare charged particles. <i>Physical Review A</i> , 1995, 51, 400-405.	1.0	18
59	Photoelectron angular distributions of $n$ subshells of open-shell atoms as indicators of interchannel coupling: $s$ photoionization. <i>Physical Review A</i> , 2000, 61, .	1.0	18
60	Strong correlation effects in atomic photoelectron angular distributions far above thresholds. <i>Physical Review A</i> , 2001, 64, .	1.0	18
61	First prediction of inter-Coulombic decay of $C_{60}$ inner vacancies through the continuum of confined atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 11LT01.	0.6	18
62	Dependence of the angular distribution of atomic photoelectrons on energy and $z$ . II. $d$ - and $f$ -subshells. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1985, 37, 37-56.	0.8	17
63	Valence photoionization of noble-gas atoms confined in the fullerene $C_{60}$ . <i>Physical Review A</i> , 2014, 89, .	1.0	17
64	Wigner photoemission time delay from endohedral anions. <i>Physical Review A</i> , 2016, 94, .	1.0	16
65	Large nondipole parameters with strong correlation effects in photoelectron angular distributions at kilo-electron-volt energies. <i>Physical Review A</i> , 2001, 63, .	1.0	15
66	Angular distribution of photoelectrons from the $4f$ subshell of mercury. <i>Physical Review A</i> , 1975, 11, 166-169.	1.0	14
67	Experimental investigation of nondipole effects in photoemission at the advanced light source. <i>Radiation Physics and Chemistry</i> , 2005, 73, 311-327.	1.4	14
68	Spectral and electron-collision properties of atomic ions: Threshold phase shifts. <i>Physical Review A</i> , 1986, 34, 943-953.	1.0	13
69	Wigner time delay in photodetachment. <i>Physical Review A</i> , 2019, 99, .	1.0	13
70	Angular Distribution of Photoelectrons: Outer Shells of Noble Gases. <i>Physical Review A</i> , 1970, 2, 2170-2171.	1.0	12
71	Photoionization of positive ions. III. Mercury. <i>Physical Review A</i> , 1981, 24, 2481-2484.	1.0	12
72	Atom-fullerene-hybrid photoionization mediated by coupled $d$ states in $Zn@C_{60}$ . <i>Physical Review A</i> , 2012, 86, .	1.0	12

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73	Anisotropic effects in the angular distribution of photoelectrons from cesium 6s. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 66, 17-18.	0.9	10
74	Differential cross sections for ionization of helium, neon, and argon by fast electrons. Physical Review A, 1984, 29, 2435-2439.	1.0	10
75	Photoionization cross sections: Present status and future needs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 280, 173-179.	0.7	10
76	Plasmonâ€“plasmon coupling in nested fullerenes: photoexcitation of interlayer plasmonic cross modes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 241002.	0.6	10
77	Photoionization of highly stripped atomic ions: Relativistic calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 69, 319-321.	0.9	9
78	Photoionization of the excited Na4dstate: Possible confirmation of a zero in the $l=1$ channel. Physical Review A, 1986, 33, 4406-4408.	1.0	9
79	Multiple minima in ground-state photoionization: Interchannel coupling at highZ. Physical Review A, 1986, 34, 5162-5163.	1.0	9
80	Photoionization of the 7dexcited state of cesium. Physical Review A, 1989, 40, 6300-6302.	1.0	9
81	Coherence of Auger and inter-Coulombic decay processes in the photoionization of Ar@C60 versus Kr@C60. European Physical Journal D, 2016, 70, 1.	0.6	9
82	Photoemission from hybrid states of Cl@C60 before and after a stabilizing charge transfer. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 125101.	0.6	9
83	Photoionization cross sections of positive ions. Physical Review A, 1988, 38, 506-507.	1.0	8
84	Effects of spin-orbit-interaction-activated interchannel coupling on photoemission time delay. Physical Review A, 2020, 101, .	1.0	8
85	Application of the relativistic random-phase approximation to Xe5sphotoionization. Physical Review A, 1985, 32, 3109-3109.	1.0	7
86	Photoionization of bonding and antibonding-type atom-fullerene hybrid states in Cd@C60vs Zn@C60. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 175102.	0.6	7
87	Strong dependence of photoionization time delay on energy and angle in the neighborhood of Fano resonances. Physical Review A, 2019, 99, .	1.0	7
88	Photoionization of Xe 5s: angular distribution and Wigner time delay in the vicinity of the second Cooper minimum. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 225206.	0.6	7
89	Photoionization of Al <sup>+</sup> ions: A relativistic random-phase-approximation study. Physical Review A, 1988, 38, 504-505.	1.0	6
90	Influence of shape resonances on minima in cross sections for photoionization of excited atoms. Physical Review A, 1990, 41, 1709-1710.	1.0	6

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91	Multielectron transitions resulting from interactions between target and projectile electrons in ionizing collisions. <i>Physical Review A</i> , 1992, 46, R6773-R6776.	1.0	6
92	A primer of valence shell photoelectron angular distributions in atoms. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 66, 117-123.	0.8	6
93	Photoionization of Ca 4s in a spherical attractive well potential: dipole, quadrupole and relativistic effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 185003.	0.6	6
94	Dominance of correlation and relativistic effects on photodetachment time delay well above threshold. <i>Physical Review A</i> , 2019, 99, .	1.0	6
95	Photoelectron angular distribution of the excited 2p23p2state of atomic nitrogen. <i>Physical Review A</i> , 1989, 40, 5017-5019.	1.0	5
96	Photoionization of the excited (6s6p)3,1Pstates of ytterbium. <i>Physical Review A</i> , 1991, 43, 4684-4687.	1.0	5
97	The influence of projectile electron-target electron interactions on electron emission in fast ionizing collisions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1994, 86, 161-164.	0.6	5
98	Interchannel-coupling effects in the spin polarization of energetic photoelectrons. <i>Physical Review A</i> , 2003, 67, .	1.0	5
99	Photoionization of excitednfstates in the Cs isoelectronic sequence: A new example of orbital collapse. <i>Physical Review A</i> , 1988, 37, 1047-1049.	1.0	4
100	Spectral and electron-collision properties of atomic ions. II. Inner-shell properties. <i>Physical Review A</i> , 1991, 43, 4688-4694.	1.0	4
101	Electron-electron interactions in fast neutral-neutral collisions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1993, 79, 93-96.	0.6	4
102	New correlation effects in the photoionization of atoms and ions. <i>Radiation Physics and Chemistry</i> , 2006, 75, 2119-2123.	1.4	4
103	Nonstatistical behavior of the photoionization of spin-orbit doublets. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 085001.	0.6	4
104	Photoionization branching ratios of spin-orbit doublets far above thresholds: Interchannel and relativistic effects in the noble gases. <i>Physical Review A</i> , 2022, 106, .	1.0	4
105	Calculation of Double Differential Cross Section for Fast Ion and Electron Impact Ionization of Atoms. <i>IEEE Transactions on Nuclear Science</i> , 1981, 28, 1084-1088.	1.2	3
106	Photoionization of the excited Cs 5dstate. <i>Physical Review A</i> , 1993, 47, 4496-4497.	1.0	3
107	A density functional theory based comparative study of hybrid photoemissions from Cl@C60, Br@C60 and I@C60. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	3
108	Photoionization experiments yielding complete information. <i>Physical Review A</i> , 1998, 58, R2635-R2637.	1.0	2

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109	Many-body effects and new phenomena in atomic and molecular photoionization. <i>Radiation Physics and Chemistry</i> , 2004, 70, 571-576.	1.4	2
110	Photoelectron angular distribution of the 2p subshell for the state of , Li and. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 3379-3386.	0.6	1
111	Ionization of C <sub>60</sub> by fast bare-ion impact. <i>Journal of Physics: Conference Series</i> , 2009, 194, 102034.	0.3	1
112	Photoionization of Atomic Systems Using the Random-Phase Approximation Including Relativistic Interactions. <i>Atoms</i> , 2022, 10, 71.	0.7	1
113	Electron ejection cross sections in electron and ion impact ionization: Ab initio and semiempirical calculations. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 297-306.	1.0	0
114	Atomic physics on a synchrotron: Crucial experiments. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1987, 24-25, 429-431.	0.6	0
115	Observations on fast ion-atom collisions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1994, 86, 210-211.	0.6	0
116	Photoabsorption by Ions and Atoms. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
117	Multiple Cooper minima in ground state E2 photoionization of high Z atoms. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092128.	0.3	0
118	Inner-shell photoionization of free and confined Mg in the region of the 2p thresholds. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 195201.	0.6	0
119	Effects of Anisotropic Electron-Ion Interaction on the Photoelectron Angular Distribution of Open-Shell Atoms. , 1976, , 83-88.		0
120	Fundamental Aspects of Atomic Photoionization with High-Brightness Light Sources. , 1996, , 81-104.		0
121	Photoelectron and Auger Spectroscopy. , 1983, , 449-544.		0