

Steven T Manson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photoionization of Atomic Systems Using the Random-Phase Approximation Including Relativistic Interactions. <i>Atoms</i> , 2022, 10, 71.	0.7	1
2	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
3	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
4	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
5	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
6	Photoemission from hybrid states of Cl@C60 before and after a stabilizing charge transfer. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 125101.	0.6	9
7	Effects of spin-orbit-interaction-activated interchannel coupling on photoemission time delay. <i>Physical Review A</i> , 2020, 101, .	1.0	8
8	Photoionization of Xe 5s: angular distribution and Wigner time delay in the vicinity of the second Cooper minimum. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 225206.	0.6	7
9	Dominance of correlation and relativistic effects on photodetachment time delay well above threshold. <i>Physical Review A</i> , 2019, 99, .	1.0	6
10	Wigner time delay in photodetachment. <i>Physical Review A</i> , 2019, 99, .	1.0	13
11	Strong dependence of photoionization time delay on energy and angle in the neighborhood of Fano resonances. <i>Physical Review A</i> , 2019, 99, .	1.0	7
12	Coherence of Auger and inter-Coulombic decay processes in the photoionization of Ar@C60 versus Kr@C60. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	9
13	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
14	Wigner photoemission time delay from endohedral anions. <i>Physical Review A</i> , 2016, 94, .	1.0	16
15	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
16	Photoionization of bonding and antibonding-type atom-fullerene hybrid states in Cd@C60vs Zn@C60. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 175102.	0.6	7
17	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
18	Valence photoionization of noble-gas atoms confined in the fullerene Physical Review A, 2014, 89, .	0.6	11

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19	Resonant Auger intersite-Coulombic hybridized decay in the photoionization of endohedral fullerenes. <i>Physical Review A</i> , 2014, 89, .	1.0	20
20	Atom-fullerene-hybrid photoionization mediated by coupled d states in $Zn@C_{60}$. <i>Physical Review A</i> , 2012, 86, .	1.0	12
21	Plasmon plasmon coupling in nested fullerenes: photoexcitation of interlayer plasmonic cross modes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 241002.	0.6	10
22	Photoionization of Xe inside C_{60} : Atom-fullerene hybridization, giant cross-section enhancement, and correlation confinement resonances. <i>Physical Review A</i> , 2010, 81, .	1.0	10
23	Photoionization of hybrid states in endohedral fullerenes. <i>Physical Review A</i> , 2009, 79, .	1.0	30
24	Ionization of C_{60} by fast bare-ion impact. <i>Journal of Physics: Conference Series</i> , 2009, 194, 102034.	0.3	1
25	Photoionization of C_{60} : a model study. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 105101.	0.6	88
26	Dynamical effects of confinement on atomic valence photoionization in $Mg@C_{60}$. <i>Physical Review A</i> , 2008, 78, .	1.0	29
27	Giant Enhancement in Low Energy Photoemission of Ar Confined in C_{60} . <i>Physical Review Letters</i> , 2007, 99, 243003.	2.9	59
28	New correlation effects in the photoionization of atoms and ions. <i>Radiation Physics and Chemistry</i> , 2006, 75, 2119-2123.	1.4	4
29	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
30	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
31	Photoabsorption by Ions and Atoms. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
32	Many-body effects and new phenomena in atomic and molecular photoionization. <i>Radiation Physics and Chemistry</i> , 2004, 70, 571-576.	1.4	2
33	Interchannel-coupling effects in the spin polarization of energetic photoelectrons. <i>Physical Review A</i> , 2003, 67, .	1.0	5
34	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
35	Strong correlation effects in atomic photoelectron angular distributions far above thresholds. <i>Physical Review A</i> , 2001, 64, .	1.0	18
36	Photoelectron angular distributions of s subshells of open-shell atoms as indicators of interchannel coupling: s photoionization. <i>Physical Review A</i> , 2000, 61, .	1.0	18

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37	Photoionization of atomic beryllium from the ground state. <i>Physical Review A</i> , 2000, 61, .	1.0	33
38	Nondipole effects in the photoionization of neon: Random-phase approximation. <i>Physical Review A</i> , 1999, 59, 3609-3613.	1.0	38
39	Enhanced Nondipole Effects in Low Energy Photoionization. <i>Physical Review Letters</i> , 1999, 83, 939-942.	2.9	41
40	Photoionization experiments yielding "complete" information. <i>Physical Review A</i> , 1998, 58, R2635-R2637.	1.0	2
41	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
42	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
43	Breakdown of the Independent Particle Approximation in High-Energy Photoionization. <i>Physical Review Letters</i> , 1997, 78, 4553-4556.	2.9	100
44	Photodetachment of the 1s2s2p4P state of He from threshold to 100 eV. <i>Physical Review A</i> , 1997, 55, 414-425.	1.0	31
45	Fundamental Aspects of Atomic Photoionization with High-Brightness Light Sources. , 1996, , 81-104.		0
46	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
47	Relativistic, retardation, and multipole effects in photoionization cross sections: Z, n, and l dependence. <i>Physical Review A</i> , 1994, 50, 1312-1320.	1.0	42
48	The influence of projectile electron-target electron interactions on electron emission in fast ionizing collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994, 86, 161-164.	0.6	5
49	Observations on fast ion-atom collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994, 86, 210-211.	0.6	0
50	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
51	Electron-electron interactions in fast neutral-neutral collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 79, 93-96.	0.6	4
52	Radiative recombination and excited-state photoionization of lithium. <i>Physical Review A</i> , 1993, 48, 3674-3679.	1.0	30
53	Photoionization of the excited Cs 5d state. <i>Physical Review A</i> , 1993, 47, 4496-4497.	1.0	3
54	Photoionization of inner shells of excited atoms: Dominance of two-electron transitions. <i>Physical Review Letters</i> , 1992, 68, 1687-1689.	2.9	31

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55	Photoionization of the outer shells of radon and radium: Relativistic random-phase approximation for high-Zatoms. Physical Review A, 1992, 45, 6339-6348.	1.0	19
56	Multielectron transitions resulting from interactions between target and projectile electrons in ionizing collisions. Physical Review A, 1992, 46, R6773-R6776.	1.0	6
57	Photoionization of the excited (6s6p) ³ 1Pstates of ytterbium. Physical Review A, 1991, 43, 4684-4687.	1.0	5
58	Spectral and electron-collision properties of atomic ions. II. Inner-shell properties. Physical Review A, 1991, 43, 4688-4694.	1.0	4
59	Electron emission inHe ⁺ -atom andHe ⁺ -molecule collisions: A combined experimental and theoretical study. Physical Review A, 1990, 42, 1222-1230.	1.0	42
60	Influence of shape resonances on minima in cross sections for photoionization of excited atoms. Physical Review A, 1990, 41, 1709-1710.	1.0	6
61	Photoionization of the 7dexcited state of cesium. Physical Review A, 1989, 40, 6300-6302.	1.0	9
62	Photoionization of inner shells of the Mg and Ar isonuclear sequences. Physical Review A, 1989, 40, 6091-6094.	1.0	22
63	Photoelectron angular distribution of the excited 2p ₂₃ p ₂ state of atomic nitrogen. Physical Review A, 1989, 40, 5017-5019.	1.0	5
64	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
65	Photoionization cross sections of positive ions. Physical Review A, 1988, 38, 506-507.	1.0	8
66	Photoionization of excitednfstates in the Cs isoelectronic sequence: A new example of orbital collapse. Physical Review A, 1988, 37, 1047-1049.	1.0	4
67	Photoionization cross-section, angular-distribution, and spin-polarization calculations for the 3pand 3dsubshells of krypton. Physical Review A, 1988, 37, 4720-4729.	1.0	24
68	Photoionization ofAl ⁺ ions: A relativistic random-phase-approximation study. Physical Review A, 1988, 38, 504-505.	1.0	6
69	Multiple-ionization channels in proton-atom collisions. Physical Review A, 1987, 35, 2007-2025.	1.0	87
70	Electron ejection cross sections in electron and ion impact ionization: Ab initio and semiempirical calculations. International Journal of Quantum Chemistry, 1987, 32, 297-306.	1.0	0
71	Atomic physics on a synchrotron: Crucial experiments. Nuclear Instruments & Methods in Physics Research B, 1987, 24-25, 429-431.	0.6	0
72	Quantum defect values for positive atomic ions. Atomic Data and Nuclear Data Tables, 1986, 35, 473-486.	0.9	76

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73	Oscillator-strength distributions for discrete and continuum transitions of excited states of cesium. <i>Physical Review A</i> , 1986, 33, 3151-3165.	1.0	52
74	Photoionization of the excited Na4dstate: Possible confirmation of a zero in the $\ell=1$ channel. <i>Physical Review A</i> , 1986, 33, 4406-4408.	1.0	9
75	Coincidence Study of Doubly Differential Cross Sections: Projectile Ionization in He ⁺ -He Collisions. <i>Physical Review Letters</i> , 1986, 57, 1130-1132.	2.9	23
76	Multiple minima in ground-state photoionization: Interchannel coupling at high Z. <i>Physical Review A</i> , 1986, 34, 5162-5163.	1.0	9
77	Spectral and electron-collision properties of atomic ions: Threshold phase shifts. <i>Physical Review A</i> , 1986, 34, 943-953.	1.0	13
78	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
79	Systematics of zeros in dipole matrix elements for photoionizing transitions: Nonrelativistic calculations. <i>Physical Review A</i> , 1985, 31, 3698-3703.	1.0	64
80	Application of the relativistic random-phase approximation to Xe5s photoionization. <i>Physical Review A</i> , 1985, 32, 3109-3109.	1.0	7
81	Photoionization of 5d and 4f subshells of high-Z elements. <i>Physical Review A</i> , 1984, 30, 256-269.	1.0	23
82	Differential cross sections for ionization of helium, neon, and argon by fast electrons. <i>Physical Review A</i> , 1984, 29, 2435-2439.	1.0	10
83	Photoionization of the Cs6d excited state. <i>Physical Review A</i> , 1984, 29, 1594-1595.	1.0	22
84	Differential cross sections for ionization of methane, ammonia, and water vapor by high velocity ions. <i>Journal of Chemical Physics</i> , 1984, 80, 5631-5638.	1.2	52
85	Multiple-Ionization Mechanisms in Fast Proton-Neon Collisions. <i>Physical Review Letters</i> , 1983, 51, 1542-1545.	2.9	19
86	Photoionization of magnesium in the relativistic random-phase approximation. <i>Physical Review A</i> , 1983, 28, 209-217.	1.0	44
87	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
88	Photoelectron and Auger Spectroscopy. , 1983, , 449-544.		0
89	Photoelectron angular distributions: energy dependence for s subshells. <i>Reviews of Modern Physics</i> , 1982, 54, 389-405.	16.4	202
90	Multiple Minima in Photoionization Cross Sections of Excited Atoms. <i>Physical Review Letters</i> , 1982, 48, 614-616.	2.9	53

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91	Generality and Systematics of Multiple Minima in Photoionization Cross Sections of Excited Atoms. Physical Review Letters, 1982, 48, 473-475.	2.9	69
92	Calculation of Double Differential Cross Section for Fast Ion and Electron Impact Ionization of Atoms. IEEE Transactions on Nuclear Science, 1981, 28, 1084-1088.	1.2	3
93	Energy and Angular Distributions of Electrons from FastHe++He Collisions. Physical Review Letters, 1981, 46, 529-531.	2.9	37
94	Relativistic Effects in the Photoionization of High-ZElements: Splittings and Shifts of Minima. Physical Review Letters, 1981, 46, 1326-1329.	2.9	36
95	Branching ratios of Hg5d and Cd4d: Dirac-Fock calculations. Physical Review A, 1981, 23, 799-803.	1.0	19
96	Photoionization of positive ions. III. Mercury. Physical Review A, 1981, 24, 2481-2484.	1.0	12
97	Dirac-Fock calculations of atomic photoionization: Branching ratios and angular distributions in the outershells of the noble gases. Physical Review A, 1980, 21, 842-850.	1.0	25
98	Dirac-Fock calculations of photoelectron angular distributions of the outershells of the noble gases. Physical Review A, 1979, 19, 688-693.	1.0	21
99	Photoelectron angular distributions for the outer shell of the alkali-metal atoms. Physical Review A, 1979, 20, 2364-2369.	1.0	32
100	Photoionization of chalcogen and halogen atoms: Cross sections and angular distributions. Physical Review A, 1979, 20, 1005-1018.	1.0	110
101	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
102	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
103	Photoionization of positive ions.II. Iron. Physical Review A, 1978, 18, 2124-2130.	1.0	48
104	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
105	Atomic Photoelectron Spectroscopy. II. Advances in Electronics and Electron Physics, 1978, 44, 1-32.	0.6	43
106	Photoelectron Angular Distributions of Electrons in Open-Shell Atoms. Physical Review Letters, 1977, 38, 1522-1525.	2.9	46
107	Photoionization of positive ions. I. Oxygen. Physical Review A, 1977, 15, 1001-1005.	1.0	22
108	Photoionization of positive ions: Outer subshells of the noble-gas isoelectronic sequence. Physical Review A, 1977, 15, 668-674.	1.0	26

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109	Atomic Photoelectron Spectroscopy, Part I. Advances in Electronics and Electron Physics, 1976, , 73-111.	0.6	78
110	Relative intensities in photoelectron spectroscopy of atoms and molecules. Journal of Electron Spectroscopy and Related Phenomena, 1976, 8, 389-394.	0.8	576
111	Satellite lines in photoelectron spectra. Journal of Electron Spectroscopy and Related Phenomena, 1976, 9, 21-28.	0.8	52
112	Effects of Anisotropic Electron-Ion Interaction on the Photoelectron Angular Distribution of Open-Shell Atoms. , 1976, , 83-88.		0
113	Effects of anisotropic electron-ion interactions in atomic photoelectron angular distributions. Physical Review A, 1975, 11, 1596-1606.	1.0	94
114	New Minima in Photoionization Cross Section. Physical Review Letters, 1975, 35, 364-366.	2.9	65
115	Angular distribution of photoelectrons from the 4f subshell of mercury. Physical Review A, 1975, 11, 166-169.	1.0	14
116	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
117	Photoelectron angular distributions, cross sections, and branching ratios for atomic oxygen. Physical Review A, 1974, 9, 2453-2458.	1.0	57
118	Photoelectron Angular Distributions as a Probe of Anisotropic Electron-Ion Interactions. Physical Review Letters, 1974, 32, 971-974.	2.9	37
119	Angular distribution of photoelectrons from atomic oxygen, nitrogen and carbon. Planetary and Space Science, 1974, 22, 1535-1543.	0.9	18
120	Angular Distribution of Photoelectrons: Outer Shells of Noble Gases. Physical Review A, 1970, 2, 2170-2171.	1.0	12
121	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