

Steven J Manson

List of Publications by Year in descending order

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135
papers

3,917
citations

147566

31
h-index

128067

60
g-index

135
all docs

135
docs citations

135
times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoionization of the Noble Gases: Cross Sections and Angular Distributions. <i>Physical Review A</i> , 1972, 5, 227-247.	1.0	481
2	Photo-Ionization in the Soft x-Ray Range: 1Z Dependence in a Central-Potential Model. <i>Physical Review</i> , 1968, 165, 126-138.	2.7	414
3	Photoabsorption cross sections for positive atomic ions with Z equal to or less than 30. <i>Astrophysical Journal, Supplement Series</i> , 1979, 40, 815.	3.0	302
4	Photoelectron angular distributions: energy dependence for subshells. <i>Reviews of Modern Physics</i> , 1982, 54, 389-405.	16.4	202
5	Ratio of Cross Sections for Double to Single Ionization of He by 85-400 eV Photons. <i>Physical Review Letters</i> , 1996, 76, 2654-2657.	2.9	109
6	On the nature and origin of confinement resonances. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 2279-2285.	0.6	109
7	Breakdown of the Independent Particle Approximation in High-Energy Photoionization. <i>Physical Review Letters</i> , 1997, 78, 4553-4556.	2.9	100
8	A unique situation for an endohedral metallofullerene. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, L395-L403.	0.6	94
9	Photoionization of C_{60} : a model study. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 105101.	0.6	88
10	Atomic Photoelectron Spectroscopy, Part I. <i>Advances in Electronics and Electron Physics</i> , 1976, , 73-111.	0.6	78
11	K-Shell Photodetachment of Li^{+} : Experiment and Theory. <i>Physical Review Letters</i> , 2001, 87, 253002.	2.9	75
12	Probing confinement resonances by photoionizing Xe inside a C_{60} molecular cage. <i>Physical Review A</i> , 2013, 88, 013407.	1.0	69
13	Photoionization of Xe inside C_{60} : Atom-fullerene hybridization, giant cross-section enhancement, and correlation confinement. <i>Physical Review A</i> , 2013, 88, 013407.	1.0	69
14	Giant Enhancement in Low Energy Photoemission of Ar Confined in C_{60} . <i>Physical Review Letters</i> , 2007, 99, 243003.	2.9	59
15	Satellite lines in photoelectron spectra. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1976, 9, 21-28.	0.8	52
16	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
17	Strong Electron Correlation in Photoionization of Spin-Orbit Doublets. <i>Physical Review Letters</i> , 2002, 88, 093002.	2.9	52
18	Validity of the independent-particle approximation in x-ray photoemission: The exception, not the rule. <i>Physical Review A</i> , 1999, 60, R2641-R2644.	1.0	51

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19	Attosecond time delay in the photoionization of endohedral atoms $A@C$. A probe of confinement resonances. Physical Review A, 2014, 89, .	1.0	44
20	Photoionization of magnesium in the relativistic random-phase approximation. Physical Review A, 1983, 28, 209-217.	1.0	44
21	Photoionization of atoms encapsulated in endohedral ions $A@C60\hat{A}\pm z$. Physical Review A, 2006, 73, .	1.0	44
22	Inner-shell photoionization of excited lithium. Physical Review A, 1999, 59, 462-476.	1.0	42
23	Postcollision recapture in the K-shell photodetachment of $Li^{\hat{a}}$. Physical Review A, 2003, 68, .	1.0	42
24	Qualitative Modification of the High Energy Atomic Photoionization Cross Section. Physical Review Letters, 2000, 85, 4703-4706.	2.9	41
25	Photoionization of endohedral atoms using R -matrix methods: Application to $Xe@C$. Physical Review A, 2012, 86, .	1.0	37
26	Relativistic Effects in the Photoionization of High-Z Elements: Splittings and Shifts of Minima. Physical Review Letters, 1981, 46, 1326-1329.	2.9	36
27	Photoionization cross sections for excited laser-cooled cesium atoms. Physical Review A, 1998, 57, R4110-R4113.	1.0	36
28	Dramatic Structure in the Photodetachment of Inner Shells of Negative Ions: $Li^{\hat{a}}$. Physical Review Letters, 2001, 87, .	2.9	35
29	Relativistic effects in photoionization time delay near the Cooper minimum of noble-gas atoms. Physical Review A, 2014, 90, .	1.0	34
30	Photoionization of atoms confined in giant single-walled and multiwalled fullerenes. Physical Review A, 2008, 78, .	1.0	32
31	Relativistic calculations of angle-dependent photoemission time delay. Physical Review A, 2016, 94, .	1.0	32
32	Photodetachment of the $1s2s2p^4P$ state of $He^{\hat{a}}$ from threshold to 100 eV. Physical Review A, 1997, 55, 414-425.	1.0	31
33	Photoionization of atomic iodine and its ions. Physical Review A, 2000, 61, .	1.0	31
34	Photoionization of hybrid states in endohedral fullerenes. Physical Review A, 2009, 79, .	1.0	30
35	Dynamical effects of confinement on atomic valence photoionization in $Mg@C60$. Physical Review A, 2008, 78, .	1.0	29
36	Angle-Resolved Photoelectron Spectrometry Studies of the Autoionization of the $2s2p^2$ Triply Excited State of Atomic Lithium: Experimental Results and R-Matrix Calculations. Physical Review Letters, 2000, 84, 1677-1680.	2.9	28

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37	Anomalous Behavior of the Near-Threshold Photoionization Cross Section of the Neon Isoelectronic Sequence: A Combined Experimental and Theoretical Study. <i>Physical Review Letters</i> , 1999, 83, 2151-2154.	2.9	27
38	Angle-resolved Wigner time delay in atomic photoionization: The $4d$ subshell of free and confined Xe. <i>Physical Review A</i> , 2017, 96, .	1.0	27
39	Correlation and relativistic effects on the photoionization of confined atoms. <i>Physical Review A</i> , 2007, 76, .	1.0	26
40	Interchannel coupling in the photoionization of the M shell of Kr well above threshold: Experiment and theory. <i>Physical Review A</i> , 2001, 63, .	1.0	24
41	Effects of the fullerene (C ₆₀) potential and position of the atom (A) on spectral characteristics of endohedral atoms A@C ₆₀ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 115102.	0.6	23
42	Interference in the molecular photoionization and Young's double-slit experiment. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 035202.	0.6	22
43	Pronounced effects of interchannel coupling in high-energy photoionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 245006.	0.6	20
44	Resonant Auger intersite-Coulombic hybridized decay in the photoionization of endohedral fullerenes. <i>Physical Review A</i> , 2014, 89, .	1.0	20
45	Photoionization of the outer shells of radon and radium: Relativistic random-phase approximation for high-Z atoms. <i>Physical Review A</i> , 1992, 45, 6339-6348.	1.0	19
46	Spin-orbit-interaction activated interchannel coupling in dipole and quadrupole photoionization. <i>Physical Review A</i> , 2009, 79, .	1.0	19
47	Photoelectron angular distributions of ns subshells of open-shell atoms as indicators of interchannel coupling: s photoionization. <i>Physical Review A</i> , 2000, 61, .	1.0	18
48	Strong correlation effects in atomic photoelectron angular distributions far above thresholds. <i>Physical Review A</i> , 2001, 64, .	1.0	18
49	Dipole phase and photoelectron group delay in inner-shell photoionization. <i>Physical Review A</i> , 2015, 92, .	1.0	18
50	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
51	Relativistic effects on interchannel coupling in atomic photoionization: The photoelectron angular distribution of Xe 5s. <i>Physical Review A</i> , 2001, 64, .	1.0	17
52	Valence photoionization of noble-gas atoms confined in the fullerene C ₆₀ . <i>Physical Review A</i> , 2014, 89, .	1.0	17
53	Wigner photoemission time delay from endohedral anions. <i>Physical Review A</i> , 2016, 94, .	1.0	16
54	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

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55	Inner-shell near-threshold photoionization of $A@C60$ endohedral atoms. <i>Physical Review A</i> , 2002, 66, .	1.0	15
56	Wigner time delay and spin- $\frac{1}{2}$ orbit activated confinement resonances. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 175001.	0.6	15
57	Intershell-correlation-induced time delay in atomic photoionization. <i>Physical Review A</i> , 2018, 98, .	1.0	15
58	Electronic structure and dynamics of confined atoms. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	15
59	Correlation structure in nondipole photoionization. <i>Physical Review A</i> , 2003, 67, .	1.0	14
60	Relativistic effects in the photoionization of Ne-like iron. <i>Physical Review A</i> , 1999, 60, 4577-4581.	1.0	13
61	Effects of spin- $\frac{1}{2}$ orbit activated interchannel coupling on dipole photoelectron angular distribution asymmetry parameters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 937-944.	0.6	13
62	Wigner time delay in photodetachment. <i>Physical Review A</i> , 2019, 99, . Valence photodetachment of Li: $\langle \mathbf{r} \rangle$	1.0	13
63	Na $\langle \mathbf{r} \rangle$	1.0	12
64	Atom-fullerene-hybrid photoionization mediated by coupled d states in $Zn@C60$.	1.0	12
65	Autoionization resonances in the neon isoelectronic sequence using relativistic multichannel quantum-defect theory. <i>Physical Review A</i> , 2015, 91, .	1.0	12
66	Trends in near-threshold photoionization of off-the-center endohedral atoms. <i>Physical Review A</i> , 2003, 68, .	1.0	11
67	Eisenbud-Wigner-Smith time delay in atom-laser interactions. <i>European Physical Journal: Special Topics</i> , 0, , 1.	1.2	11
68	SPECTRAL PROPERTIES OF CONFINED ATOMS. <i>Surface Review and Letters</i> , 2002, 09, 39-43.	0.5	10
69	Interior static polarization effect in $A@C60$ photoionization. <i>Physical Review A</i> , 2010, 82, .	1.0	10
70	Attosecond time delay in the photoionization of Mn in the region of the $3p$ giant resonance. <i>Physical Review A</i> , 2015, 91, .	1.0	10
71	Enhanced nondipole effects in photoelectron angular distributions near giant dipole autoionizing resonances in atoms. <i>Physical Review A</i> , 2003, 67, .	1.0	9
72	Nonmonotonic behavior as a function of nuclear charge of the K-shell Auger and radiative rates and fluorescence yields along the $1s2s2p3$ isoelectronic sequence. <i>Physical Review A</i> , 2008, 78, .	1.0	9

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73	Photoionization of Mg and Ar isonuclear sequences. <i>Physical Review A</i> , 2009, 80, .	1.0	9
74	Valence photoionization of small alkaline earth atoms endohedrally confined in C60. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	9
75	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
76	Wignerâ€Eisenbudâ€Smith photoionization time delay due to autoionization resonances. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 065008.	0.6	9
77	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
78	Photoionization of confined Ca in a spherical potential well. <i>Physical Review A</i> , 2013, 87, .	1.0	8
79	Photoionization study of Xe 5s: ionization cross sections and photoelectron angular distributions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 025004.	0.6	8
80	Photoionization of endohedral atoms: Molecular and interchannel-coupling effects. <i>Physical Review A</i> , 2015, 92, .	1.0	8
81	Effects of spin-orbit-interaction-activated interchannel coupling on photoemission time delay. <i>Physical Review A</i> , 2020, 101, .	1.0	8
82	Application of the relativistic random-phase approximation to Xe5s photoionization. <i>Physical Review A</i> , 1985, 32, 3109-3109.	1.0	7
83	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
84	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
85	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
86	Elastic scattering of particle by a system of non-overlapping spherically symmetric potentials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 769-777.	0.6	6
87	Photoionization of hydrogenlike ions surrounded by a charged spherical shell. <i>Physical Review A</i> , 2007, 76, .	1.0	6
88	Fast charged-particle impact ionization of endohedral atoms. <i>Physical Review A</i> , 2009, 79, .	1.0	6
89	Variation of photoelectron angular distributions along the Ar and Ca isonuclear sequences. <i>Physical Review A</i> , 2010, 81, .	1.0	6
90	Inner-shell photoionization of atomic chlorine. <i>Physical Review A</i> , 2013, 88, .	1.0	6

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91	Empirical formulas for direct double ionization by bare ions: $Z \approx 1$ to 92. Physical Review A, 2014, 90, .	1.0	6
92	Dominance of correlation and relativistic effects on photodetachment time delay well above threshold. Physical Review A, 2019, 99, .	1.0	6
93	Interchannel-coupling effects in the spin polarization of energetic photoelectrons. Physical Review A, 2003, 67, .	1.0	5
94	Gigantic enhancement of atomic nondipole effects: The $3s \rightarrow 3d$ resonance in Ca. Physical Review A, 2005, 72, .	1.0	5
95	Strong final-state term dependence of nondipole photoelectron angular distributions from half-filled shell atoms. Physical Review A, 2006, 74, .	1.0	5
96	Photoionization of $4d$ electrons in $1+1$ and $2+$. Physical Review A, 2002, 65, .	1.0	4
97	MULTICENTERED THEORY OF MOLECULAR PHOTOIONIZATION. Surface Review and Letters, 2002, 09, 1143-1148.	0.5	4
98	Nondipole and interchannel-coupling effects in the photodetachment of Cl . Physical Review A, 2009, 80, .	1.0	4
99	Photoionization of atomic barium subshells in the $4d$ region using the relativistic multiconfiguration Tamm-Dancoff approximation. Physical Review A, 2017, 95, .	1.0	4
100	Photoionization of C_{60} : Effects of Correlation on Cross Sections and Angular Distributions of Valence Subshells. Journal of Physical Chemistry A, 2020, 124, 108-125.	1.1	4
101	Relativistic and correlation effects in the photoionization dynamics of oganesson $Z=118$: Spin-orbit-interaction-activated interchannel coupling effects. Physical Review A, 2020, 102, .	1.0	4
102	Nonstatistical behavior of the photoionization of spin-orbit doublets. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 085001.	0.6	4
103	Photoionization of superheavy atoms: correlation and relativistic effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 205203.	0.6	4
104	Photoionization branching ratios of spin-orbit doublets far above thresholds: Interchannel and relativistic effects in the noble gases. Physical Review A, 2022, 106, .	1.0	4
105	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
106	Spin-polarized photoelectrons from half-filled-shell atoms. Physical Review A, 2007, 75, .	1.0	3
107	A density functional theory based comparative study of hybrid photoemissions from $Cl@C_{60}$, $Br@C_{60}$ and $I@C_{60}$. European Physical Journal D, 2020, 74, 1.	0.6	3
108	Unusual behavior of Cooper minima of ns subshells in high- Z atoms. Physical Review A, 2022, 105, .	1.0	3

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109	Reading the photoelectron \hat{I}^2 -parameter spectrum in a resonance region. Physical Review A, 2007, 76, .	1.0	2
110	Photoionization cross section of atomic cadmium using the multi-configuration Tamm-Dancoff approximation. Journal of Physics: Conference Series, 2009, 194, 022042.	0.3	2
111	Interference in electron molecule elastic scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 205101.	0.6	2
112	Theory of Sub-keV Photoionization Cross Sections. AIP Conference Proceedings, 1981, , .	0.3	1
113	Photoionization of positive atom ions: A review of our present understanding. AIP Conference Proceedings, 1990, , .	0.3	1
114	Photoionization of atomic ions and related electron scattering processes. , 1998, , .		1
115	Photoelectron spectra calculations of N@C60 molecules on a crystalline Si surface. Physical Review B, 2006, 73, .	1.1	1
116	Photoionization of Endohedral Atoms: Collective, Reflective and Collateral Emissions. , 2009, , .		1
117	Evolution of overlapping resonances along an isoelectronic sequence. Physical Review A, 2010, 82, .	1.0	1
118	Satellite lines in the photoionization of ions: The Be isoelectronic sequence. Physical Review A, 2010, 81, .	1.0	1
119	Positron differential studies: Comparison to photoionization. , 2013, , .		1
120	Photoabsorption studies of some closed-shell ions in the La isonuclear sequence. Physical Review A, 2015, 91, .	1.0	1
121	X-rays put molecules into a spin. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4772-4773.	3.3	1
122	Inner-Shell Photodetachment of Na ⁺ Using R-Matrix Methods. Atoms, 2020, 8, 60.	0.7	1
123	Photoionization of neutral magnesium and sodium anion in C60 versus C240. Journal of Physics: Conference Series, 2020, 1412, 072039.	0.3	1
124	Photoionization of open-shell nitrogen confined in C ₆₀ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 035202.	0.6	1
125	Double photoionization of atomic oxygen: Feshbach resonances in the two-electron continuum. Physica Scripta, 2021, 96, 064005.	1.2	1
126	Density functional study of the variants of inter-Coulombic decay resonances in the photoionization of Cl@C ₆₀ . Physica Scripta, 2021, 96, 104007.	1.2	1

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127	Photoionization of endohedral molecules: N ₂ @C ₆₀ . Physica Scripta, 2021, 96, 124005.	1.2	1
128	Outer-shell photodetachment of Li ⁺ near inner-shell thresholds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 195203.	0.6	1
129	Photoionization of Atomic Systems Using the Random-Phase Approximation Including Relativistic Interactions. Atoms, 2022, 10, 71.	0.7	1
130	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
131	Target and projectile ionization in ion-atom collisions: Theoretical aspects. AIP Conference Proceedings, 1996, , .	0.3	0
132	Nondipole parameters of TDCS for electron impact ionization and drag current. Open Physics, 2011, 9, .	0.8	0
133	Inner-shell photoionization of free and confined Mg in the region of the 2p thresholds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 195201.	0.6	0
134	Electron vacancy-level dependent hybrid photoionization of the F ⁺ @ C ₆₀ + molecule: a novel effect. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 045101.	0.6	0
135	Perspectives on UV and x-ray photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 043002.	0.9	0