

Steven J Manson

List of Publications by Year in descending order

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135
papers

3,917
citations

147801

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docs citations

135
times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron vacancy-level dependent hybrid photoionization of the F_{C60}^{+} molecule: a novel effect. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 045101.	1.5	0
2	Perspectives on UV and x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 043002.	2.1	0
3	Unusual behavior of Cooper minima of n subshells in high- Z atoms. <i>Physical Review A</i> , 2022, 105, .	2.5	3
4	Photoionization of Atomic Systems Using the Random-Phase Approximation Including Relativistic Interactions. <i>Atoms</i> , 2022, 10, 71.	1.6	1
5	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, .	2.5	4
6	Photoionization of open-shell nitrogen confined in C_{60} . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 035202.	1.5	1
7	Nonstatistical behavior of the photoionization of spin-orbit doublets. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 085001.	1.5	4
8	Double photoionization of atomic oxygen: Feshbach resonances in the two-electron continuum. <i>Physica Scripta</i> , 2021, 96, 064005.	2.5	1
9	Electronic structure and dynamics of confined atoms. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	15
10	Density functional study of the variants of inter-Coulombic decay resonances in the photoionization of $Cl@C_{60}$. <i>Physica Scripta</i> , 2021, 96, 104007.	2.5	1
11	Photoionization of endohedral molecules: $N_2@C_{60}$. <i>Physica Scripta</i> , 2021, 96, 124005.	2.5	1
12	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.	1.5	0
13	Photoionization of C_{60} : Effects of Correlation on Cross Sections and Angular Distributions of Valence Subshells. <i>Journal of Physical Chemistry A</i> , 2020, 124, 108-125.	2.5	4
14	Inner-Shell Photodetachment of Na^{+} Using R-Matrix Methods. <i>Atoms</i> , 2020, 8, 60.	1.6	1
15	A density functional theory based comparative study of hybrid photoemissions from $Cl@C_{60}$, $Br@C_{60}$ and $I@C_{60}$. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	3
16	Relativistic and correlation effects in the photoionization dynamics of oganesson $Z=118$: Spin-orbit-interaction-activated interchannel coupling effects. <i>Physical Review A</i> , 2020, 102, .	2.5	4
17	Photoionization of neutral magnesium and sodium anion in C_{60} versus C_{240} . <i>Journal of Physics: Conference Series</i> , 2020, 1412, 072039.	0.4	1
18	Photoemission from hybrid states of $Cl@C_{60}$ before and after a stabilizing charge transfer. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 125101.	1.5	9

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19	Effects of spin-orbit-interaction-activated interchannel coupling on photoemission time delay. <i>Physical Review A</i> , 2020, 101, .	2.5	8
20	Outer-shell photodetachment of $\text{Li}^{\text{+}}$ near inner-shell thresholds. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 195203.	1.5	1
21	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.	1.5	7
22	Photoionization of superheavy atoms: correlation and relativistic effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 205203.	1.5	4
23	Dominance of correlation and relativistic effects on photodetachment time delay well above threshold. <i>Physical Review A</i> , 2019, 99, .	2.5	6
24	Wigner time delay in photodetachment. <i>Physical Review A</i> , 2019, 99, .	2.5	13
25	X-rays put molecules into a spin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4772-4773.	7.1	1
26	Strong dependence of photoionization time delay on energy and angle in the neighborhood of Fano resonances. <i>Physical Review A</i> , 2019, 99, .	2.5	7
27	Wigner's "Eisenbud" Smith photoionization time delay due to autoionization resonances. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 065008.	1.5	9
28	Interference in electron-molecule elastic scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 205101.	1.5	2
29	Intershell-correlation-induced time delay in atomic photoionization. <i>Physical Review A</i> , 2018, 98, .	2.5	15
30	Photoionization of atomic barium subshells in the $4p$ region using the relativistic multiconfiguration Tamm-Dancoff approximation. <i>Physical Review A</i> , 2017, 95, .	2.5	4
31	Wigner time delay and spin-orbit activated confinement resonances. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 175001.	1.5	15
32	Angle-resolved Wigner time delay in atomic photoionization: The $4p$ subshell of free and confined Xe. <i>Physical Review A</i> , 2017, 96, .	2.5	27
33	Coherence of Auger and inter-Coulombic decay processes in the photoionization of Ar@C_{60} versus Kr@C_{60} . <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	9
34	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.	1.5	18
35	Wigner photoemission time delay from endohedral anions. <i>Physical Review A</i> , 2016, 94, .	2.5	16
36	Relativistic calculations of angle-dependent photoemission time delay. <i>Physical Review A</i> , 2016, 94, .	2.5	32

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37	Attosecond time delay in the photoionization of Mn in the region of the giant resonance. Physical Review A, 2015, 91, .	2.5	10
38	Photoabsorption studies of some closed-shell ions in the La isonuclear sequence. Physical Review A, 2015, 91, .	2.5	1
39	Dipole phase and photoelectron group delay in inner-shell photoionization. Physical Review A, 2015, 92, .	2.5	18
40	Photoionization of endohedral atoms: Molecular and interchannel-coupling effects. Physical Review A, 2015, 92, .	2.5	8
41	Autoionization resonances in the neon isoelectronic sequence using relativistic multichannel quantum-defect theory. Physical Review A, 2015, 91, .	2.5	12
42	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.	1.5	7
43	Valence photoionization of noble-gas atoms confined in the fullerene cage. Physical Review A, 2014, 89, .	2.5	17
44	Resonant Auger intersite-Coulombic hybridized decay in the photoionization of endohedral fullerenes. Physical Review A, 2014, 89, .	2.5	20
45	Relativistic effects in photoionization time delay near the Cooper minimum of noble-gas atoms. Physical Review A, 2014, 90, .	2.5	34
46	Empirical formulas for direct double ionization by bare ions: $Z=1$ to 92. Physical Review A, 2014, 90, .	2.5	6
47	Photoionization study of Xe 5s: ionization cross sections and photoelectron angular distributions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 025004.	1.5	8
48	Attosecond time delay in the photoionization of endohedral atoms: A probe of confinement resonances. Physical Review A, 2014, 89, .	2.5	19
49	Positron differential studies: Comparison to photoionization. , 2013, , .		1
50	Pronounced effects of interchannel coupling in high-energy photoionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 245006.	1.5	20
51	Photoionization of confined Ca in a spherical potential well. Physical Review A, 2013, 87, .	2.5	8
52	Probing confinement resonances by photoionizing Xe inside a C ₆₀ molecular cage. Physical Review A, 2013, 88, .	2.5	69
53	Inner-shell photoionization of atomic chlorine. Physical Review A, 2013, 88, .	2.5	6
54	Atom-fullerene-hybrid photoionization mediated by coupled states in Zn@C ₆₀ . Physical Review A, 2012, 86, .	2.5	12

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55	Interference in the molecular photoionization and Young's double-slit experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 035202.	1.5	22
56	Photoionization of endohedral atoms using $\langle \text{mml:mi} \rangle R \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -matrix methods: Application to Xe@C $\langle \text{mml:math} \rangle$ $\langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 60 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review A, 2012, 86, .	2.5	37
57	Valence photoionization of small alkaline earth atoms endohedrally confined in C60. European Physical Journal D, 2012, 66, 1.	1.3	9
58	Nondipole parameters of TDCS for electron impact ionization and drag current. Open Physics, 2011, 9, . Valence photodetachment of Li $\langle \text{mml:math} \rangle$ $\langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{r} \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ and Na $\langle \text{mml:math} \rangle$ $\langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{r} \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ using relativ	1.7	0
59	Evolution of overlapping resonances along an isoelectronic sequence. Physical Review A, 2010, 82, .	2.5	12
60	Interior static polarization effect in A@C60 photoionization. Physical Review A, 2010, 82, .	2.5	1
61	Variation of photoelectron angular distributions along the Ar and Ca isonuclear sequences. Physical Review A, 2010, 81, .	2.5	6
62	Satellite lines in the photoionization of ions: The Be isoelectronic sequence. Physical Review A, 2010, 81, .	2.5	1
63	Photoionization of Xe inside $\langle \text{mml:math} \rangle$ $\langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 60 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$: Atom-fullerene hybridization, giant cross-section enhancement, and correlation confinement resonances. Physical Review A, 2010, 81, .	2.5	25
64	Effects of the fullerene (C60) potential and position of the atom (A) on spectral characteristics of endohedral atoms A@C60. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 115102.	1.5	23
65	Fast charged-particle impact ionization of endohedral atoms. Physical Review A, 2009, 79, .	2.5	6
66	Photoionization of hybrid states in endohedral fullerenes. Physical Review A, 2009, 79, .	2.5	30
67	Spin-orbit-interaction activated interchannel coupling in dipole and quadrupole photoionization. Physical Review A, 2009, 79, .	2.5	19
68	Photoionization of Mg and Ar isonuclear sequences. Physical Review A, 2009, 80, .	2.5	9
69	Nondipole and interchannel-coupling effects in the photodetachment of $\langle \text{mml:math} \rangle$ $\langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle Cl \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{r} \langle \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	2.5	4
70	Photoionization of Endohedral Atoms: Collective, Reflective and Collateral Emissions. , 2009, , .		1
71	Photoionization cross section of atomic cadmium using the multi-configuration Tamm-Dancoff approximation. Journal of Physics: Conference Series, 2009, 194, 022042.	0.4	2

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73	Photoionization of C_{60} : a model study. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 105101.	1.5	88
74	Nonmonotonic behavior as a function of nuclear charge of the K-shell Auger and radiative rates and fluorescence yields along the $1s2s2p3$ isoelectronic sequence. Physical Review A, 2008, 78, .	2.5	9
75	Dynamical effects of confinement on atomic valence photoionization in $Mg@C_{60}$. Physical Review A, 2008, 78, .	2.5	29
76	Photoionization of atoms confined in giant single-walled and multiwalled fullerenes. Physical Review A, 2008, 78, .	2.5	32
77	Elastic scattering of particle by a system of non-overlapping spherically symmetric potentials. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 769-777.	1.5	6
78	Correlation and relativistic effects on the photoionization of confined atoms. Physical Review A, 2007, 76, .	2.5	26
79	Reading the photoelectron I^2 -parameter spectrum in a resonance region. Physical Review A, 2007, 76, .	2.5	2
80	Spin-polarized photoelectrons from half-filled-shell atoms. Physical Review A, 2007, 75, .	2.5	3
81	Giant Enhancement in Low Energy Photoemission of Ar Confined in C_{60} . Physical Review Letters, 2007, 99, 243003.	7.8	59
82	Photoionization of hydrogenlike ions surrounded by a charged spherical shell. Physical Review A, 2007, 76, .	2.5	6
83	Photoelectron spectra calculations of $N@C_{60}$ molecules on a crystalline Si surface. Physical Review B, 2006, 73, .	3.2	1
84	Photoionization of atoms encapsulated in endohedral ions $A@C_{60}^{\pm z}$. Physical Review A, 2006, 73, .	2.5	44
85	Strong final-state term dependence of nondipole photoelectron angular distributions from half-filled shell atoms. Physical Review A, 2006, 74, .	2.5	5
86	Gigantic enhancement of atomic nondipole effects: The $3s^2 3d$ resonance in Ca. Physical Review A, 2005, 72, .	2.5	5
87	Effects of spin-orbit activated interchannel coupling on dipole photoelectron angular distribution asymmetry parameters. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 937-944.	1.5	13
88	Postcollision recapture in the K-shell photodetachment of Li^+ . Physical Review A, 2003, 68, .	2.5	42
89	Enhanced nondipole effects in photoelectron angular distributions near giant dipole autoionizing resonances in atoms. Physical Review A, 2003, 67, .	2.5	9
90	Correlation structure in nondipole photoionization. Physical Review A, 2003, 67, .	2.5	14

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91	Trends in near-threshold photoionization of off-the-center endohedral atoms. Physical Review A, 2003, 68, .	2.5	11
92	Interchannel-coupling effects in the spin polarization of energetic photoelectrons. Physical Review A, 2003, 67, .	2.5	5
93	Strong Electron Correlation in Photoionization of Spin-Orbit Doublets. Physical Review Letters, 2002, 88, 093002.	7.8	52
94	Photoionization of $4d$ electrons in $1+$ and $2+$. Physical Review A, 2002, 65, .	2.5	4
95	Inner-shell near-threshold photoionization of C_{60} endohedral atoms. Physical Review A, 2002, 66, .	2.5	15
96	SPECTRAL PROPERTIES OF CONFINED ATOMS. Surface Review and Letters, 2002, 09, 39-43.	1.1	10
97	MULTICENTERED THEORY OF MOLECULAR PHOTOIONIZATION. Surface Review and Letters, 2002, 09, 1143-1148.	1.1	4
98	Interchannel coupling in the photoionization of the M shell of Kr well above threshold: Experiment and theory. Physical Review A, 2001, 63, .	2.5	24
99	Large nondipole parameters with strong correlation effects in photoelectron angular distributions at kilo-electron-volt energies. Physical Review A, 2001, 63, .	2.5	15
100	Strong correlation effects in atomic photoelectron angular distributions far above thresholds. Physical Review A, 2001, 64, .	2.5	18
101	Dramatic Structure in the Photodetachment of Inner Shells of Negative Ions: $Li\tilde{a}^{\sim}$. Physical Review Letters, 2001, 87, .	7.8	35
102	Relativistic effects on interchannel coupling in atomic photoionization: The photoelectron angular distribution of Xe $5s$. Physical Review A, 2001, 64, .	2.5	17
103	K-Shell Photodetachment of $Li\tilde{a}^{\sim}$: Experiment and Theory. Physical Review Letters, 2001, 87, 253002.	7.8	75
104	On the nature and origin of confinement resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 2279-2285.	1.5	109
105	Qualitative Modification of the High Energy Atomic Photoionization Cross Section. Physical Review Letters, 2000, 85, 4703-4706.	7.8	41
106	Angle-Resolved Photoelectron Spectrometry Studies of the Autoionization of the $2s2p^2P$ Triply Excited State of Atomic Lithium: Experimental Results and R -Matrix Calculations. Physical Review Letters, 2000, 84, 1677-1680.	7.8	28
107	Photoelectron angular distributions of ns subshells of open-shell atoms as indicators of interchannel coupling: $Sc\tilde{e}, 4s$ photoionization. Physical Review A, 2000, 61, .	2.5	18
108	Photoionization of atomic iodine and its ions. Physical Review A, 2000, 61, .	2.5	31

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109	Inner-shell photoionization of excited lithium. <i>Physical Review A</i> , 1999, 59, 462-476.	2.5	42
110	Relativistic effects in the photoionization of Ne-like iron. <i>Physical Review A</i> , 1999, 60, 4577-4581.	2.5	13
111	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.	7.8	27
112	A unique situation for an endohedral metallofullerene. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, L395-L403.	1.5	94
113	Validity of the independent-particle approximation in x-ray photoemission: The exception, not the rule. <i>Physical Review A</i> , 1999, 60, R2641-R2644.	2.5	51
114	Photoionization cross sections for excited laser-cooled cesium atoms. <i>Physical Review A</i> , 1998, 57, R4110-R4113.	2.5	36
115	Photoionization of atomic ions and related electron scattering processes. , 1998, , .		1
116	Breakdown of the Independent Particle Approximation in High-Energy Photoionization. <i>Physical Review Letters</i> , 1997, 78, 4553-4556.	7.8	100
117	Photodetachment of the $1s2s2p^4P$ state of He^{\sim} from threshold to 100 eV. <i>Physical Review A</i> , 1997, 55, 414-425.	2.5	31
118	Ratio of Cross Sections for Double to Single Ionization of He by $85 \leq 400$ eV Photons. <i>Physical Review Letters</i> , 1996, 76, 2654-2657.	7.8	109
119	Target and projectile ionization in ion-atom collisions: Theoretical aspects. <i>AIP Conference Proceedings</i> , 1996, , .	0.4	0
120	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.	2.5	19
121	Photoionization of positive atom ions: A review of our present understanding. <i>AIP Conference Proceedings</i> , 1990, , .	0.4	1
122	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.	2.0	0
123	Application of the relativistic random-phase approximation to Xe5s photoionization. <i>Physical Review A</i> , 1985, 32, 3109-3109.	2.5	7
124	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.	3.0	52
125	Photoionization of magnesium in the relativistic random-phase approximation. <i>Physical Review A</i> , 1983, 28, 209-217.	2.5	44
126	Photoelectron angular distributions: energy dependence for subshells. <i>Reviews of Modern Physics</i> , 1982, 54, 389-405.	45.6	202

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127	Theory of Sub-keV Photoionization Cross Sections. AIP Conference Proceedings, 1981, , .	0.4	1
128	Calculation of Double Differential Cross Section for Fast Ion and Electron Impact Ionization of Atoms. IEEE Transactions on Nuclear Science, 1981, 28, 1084-1088.	2.0	3
129	Relativistic Effects in the Photoionization of High-ZElements: Splittings and Shifts of Minima. Physical Review Letters, 1981, 46, 1326-1329.	7.8	36
130	Photoabsorption cross sections for positive atomic ions with Z equal to or less than 30. Astrophysical Journal, Supplement Series, 1979, 40, 815.	7.7	302
131	Atomic Photoelectron Spectroscopy, Part I. Advances in Electronics and Electron Physics, 1976, , 73-111.	0.6	78
132	Satellite lines in photoelectron spectra. Journal of Electron Spectroscopy and Related Phenomena, 1976, 9, 21-28.	1.7	52
133	Photoionization of the Noble Gases: Cross Sections and Angular Distributions. Physical Review A, 1972, 5, 227-247.	2.5	481
134	Photo-ionization in the Soft x-Ray Range: 1ZDependence in a Central-Potential Model. Physical Review, 1968, 165, 126-138.	2.7	414
135	Eisenbudâ€“Wignerâ€“Smith time delay in atomâ€“laser interactions. European Physical Journal: Special Topics, 0, , 1.	2.6	11