

P C Deshmukh

List of Publications by Year in descending order

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61
papers

965
citations

471061

17
h-index

500791

28
g-index

62
all docs

62
docs citations

62
times ranked

411
citing authors

#	ARTICLE	IF	CITATIONS
1	Breakdown of the Independent Particle Approximation in High-Energy Photoionization. Physical Review Letters, 1997, 78, 4553-4556.	2.9	100
2	Beyond the dipole approximation: angular-distribution effects in valence photoemission. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L727-L733.	0.6	98
3	Validity of the independent-particle approximation in x-ray photoemission: The exception, not the rule. Physical Review A, 1999, 60, R2641-R2644.	1.0	51
4	Attosecond time delay in the photoionization of endohedral atoms A probe of confinement resonances. Physical Review A, 2014, 89, .	1.0	40
5	Angle-resolved photoemission from the Ar 2p _{subshell} . Physical Review A, 1988, 38, 2371-2374.	1.0	37
6	Absolute Measurements and Theoretical Calculations of Photoionization Cross Sections along the Isonuclear Sequence of Multiply Charged Barium Ions. Physical Review Letters, 2001, 87, 273002.	2.9	36
7	Relativistic effects in photoionization time delay near the Cooper minimum of noble-gas atoms. Physical Review A, 2014, 90, .	1.0	34
8	Anomalous Behavior of the Near-Threshold Photoionization Cross Section of the Neon Isoelectronic Sequence: A Combined Experimental and Theoretical Study. Physical Review Letters, 1999, 83, 2151-2154.	2.9	27
9	Angle-resolved Wigner time delay in atomic photoionization: The subshell of free and confined Xe. Physical Review A, 2017, 96, .	1.0	27
10	Correlation and relativistic effects on the photoionization of confined atoms. Physical Review A, 2007, 76, .	1.0	26
11	Interchannel coupling in the photoionization of the M _{shell} of Kr well above threshold: Experiment and theory. Physical Review A, 2001, 63, .	1.0	24
12	Relativistic and confinement effects in photoionization of Xe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 065004.	0.6	22
13	Pronounced effects of interchannel coupling in high-energy photoionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 245006.	0.6	20
14	Spin-orbit-interaction activated interchannel coupling in dipole and quadrupole photoionization. Physical Review A, 2009, 79, .	1.0	19
15	Dynamical Relativistic Effects in Photoionization: Spin-Orbit-Resolved Angular Distributions of Xenon 4d Photoelectrons near the Cooper Minimum. Physical Review Letters, 2001, 87, 123004.	2.9	18
16	Dipole phase and photoelectron group delay in inner-shell photoionization. Physical Review A, 2015, 92, .	1.0	18
17	Relativistic effects in the photoionization of atomic beryllium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 3383-3389.	0.6	17
18	Xenon 4p photoionization near the 4d Cooper minimum: Interchannel coupling effects. Physical Review A, 1989, 40, 2400-2403.	1.0	16

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19	Resonance-induced deviations of \hat{I}^2 from 2.0 for rare gas s-subshell photoionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L335-L343.	0.6	16
20	Absolute photoionization cross sections and resonance structure of doubly ionized silicon in the region of the $2p^2$ threshold: Experiment and theory. Physical Review A, 2003, 68, .	1.0	15
21	Wigner time delay and spin-orbit activated confinement resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 175001.	0.6	15
22	Intershell-correlation-induced time delay in atomic photoionization. Physical Review A, 2018, 98, .	1.0	15
23	Electronic structure and dynamics of confined atoms. European Physical Journal D, 2021, 75, 1.	0.6	15
24	Theoretical and experimental demonstrations of the existence of quadrupole Cooper minima. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 021002.	0.6	14
25	Cooper minima: a window on nondipole photoionization at low energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 201001.	0.6	14
26	Relativistic effects in the photoionization of Ne-like iron. Physical Review A, 1999, 60, 4577-4581.	1.0	13
27	Photoionisation of K ⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, L281-L283.	0.6	12
28	Valence photodetachment of Li and Na. $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \hat{a} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{and} \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \hat{a} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{using relativ}$	1.0	12
29	Autoionization resonances in the neon isoelectronic sequence using relativistic multichannel quantum-defect theory. Physical Review A, 2015, 91, .	1.0	12
30	Photoionization of atomic krypton confined in the fullerene C ₆₀ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 185001.	0.6	11
31	Time delay in atomic and molecular collisions and photoionisation/photodetachment. International Reviews in Physical Chemistry, 2021, 40, 127-153.	0.9	11
32	Eisenbud-Wigner-Smith time delay in atom-laser interactions. European Physical Journal: Special Topics, 0, , 1.	1.2	11
33	Near-threshold structure in the photoionization of krypton 3p. Physical Review A, 1988, 37, 1773-1774.	1.0	10
34	Dipole and quadrupole Cooper minima and their effects on dipole and nondipole photoelectron angular distributions in Hg6s. Physical Review A, 2007, 75, .	1.0	10
35	Attosecond time delay in the photoionization of Mn in the region of the $3d$ giant resonance. Physical Review A, 2015, 91, .	1.0	10
36	Photoionization of Mg and Ar isonuclear sequences. Physical Review A, 2009, 80, .	1.0	9

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37	Wignerâ€Eisenbudâ€Smith photoionization time delay due to autoionization resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 065008.	0.6	9
38	Calculations of generalized oscillator strength for electron-impact excitations of krypton and xenon using a relativistic local-density potential. Physical Review A, 1992, 46, 2513-2518.	1.0	8
39	Low- and intermediate-energy photoionisation of palladium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 61-76.	0.6	7
40	Relativistic Effects in Atomic and Ionic Photoionization: â€Anomalousâ€Behavior at the Low End of Isoelectronic Sequences. Astrophysical Journal, 2000, 537, 1094-1099.	1.6	7
41	Relaxation effects in the photodetachment of intermediate p shells of chlorine and bromine negative ions. Canadian Journal of Physics, 2009, 87, 49-54.	0.4	7
42	Quadrupole photoionization of endohedral Xe@C60. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 175003.	0.6	6
43	Variation of photoelectron angular distributions along the Ar and Ca isonuclear sequences. Physical Review A, 2010, 81, .	1.0	6
44	Electron correlation effects near the photoionization threshold: the Ar isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 195008.	0.6	6
45	Interchannel Coupling in Ionic Photoionization Far above Threshold: The Neon Isoelectronic Sequence. Astrophysical Journal, 2003, 595, 1307-1312.	1.6	4
46	Nondipole and interchannel-coupling effects in the photodetachment of Cl^- . Physical Review A, 2009, 80, .	1.0	4
47	Symmetry principles and conservation laws in atomic and subatomic physics â€” 1. Resonance, 2010, 15, 832-842.	0.2	4
48	Photoionization of atomic barium subshells in the $4d$ region using the relativistic multiconfiguration Tamm-Dancoff approximation. Physical Review A, 2017, 95, .	1.0	4
49	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
50	Photoionization of superheavy atoms: correlation and relativistic effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 205203.	0.6	4
51	The real effects of pseudo forces. Resonance, 2004, 9, 74-85.	0.2	3
52	Krypton E2 photoionization cross-section and angular distribution of photoelectrons. Journal of Physics: Conference Series, 2007, 80, 012001.	0.3	3
53	Unusual behavior of Cooper minima of n subshells in high- Z atoms. Physical Review A, 2022, 105, .	1.0	3
54	Generalized oscillator strength studies for electron-impact $2s$ ionization of some low- and intermediate- Z atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 943-954.	0.6	1

#	ARTICLE	IF	CITATIONS
55	Photoionization of some closed shell atoms and ions. Pramana - Journal of Physics, 1998, 50, 607-615.	0.9	1
56	Dipole and quadrupole photodetachment/photoionization studies of the Ar isoelectronic sequence. Journal of Physics: Conference Series, 2012, 388, 022098.	0.3	1
57	Photoabsorption studies of some closed-shell ions in the La isonuclear sequence. Physical Review A, 2015, 91, .	1.0	1
58	Time delay in negative ion photodetachment. Physica Scripta, 2021, 96, 114005.	1.2	1
59	Effect of SOIAC on photoionization time delay of the Xe 3d subshell. Journal of Physics: Conference Series, 2020, 1412, 152025.	0.3	0
60	Relativistic Dynamical Effects in Atomic Photoabsorption. , 2002, , 205-212.		0
61	Spin-Orbit Interaction Features in Near-Threshold Photoionization Dynamics: An Energy- and Angle-Dependent Study. Springer Proceedings in Physics, 2019, , 74-85.	0.1	0