Sukhamoy Bhattacharyya

List of Publications by Year
in descending order

43	471	687220 13	713332 21
papers	citations	h-index	g-index

43	43	43	171
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	and states of two electron atoms under Debye plasma screening. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 675-688.	1.1	42
2	2pnp (^{1,3}P^e) states of neutral He and Li⁺ions under Debye plasma screening. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 245701.	0.6	41
3	Nonrelativistic structure calculations of two-electron ions in a strongly coupled plasma environment. Physical Review A, 2015, 91, .	1.0	41
4	Effect of strongly coupled plasma on the spectra of hydrogenlike carbon, aluminium and argon. European Physical Journal D, 2008, 46, 1-8.	0.6	38
5	Precise estimation of the energy levels of two-electron atoms under spherical confinement. Physica Scripta, 2013, 87, 065305.	1.2	36
6	Analytical approach to the helium-atom ground state using correlated wavefunctions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L147-L150.	0.6	29
7	Observation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mi>p</mml:mi><mml:mn>3</mml:mn><mml:mi>d</mml:mi><mml:msup><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn></mml:msup><mml:msup><mml:mi>P</mml:mi><mml:mi>o</mml:mi></mml:m		

#	Article	IF	Citations
19	Doubly excited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si40.gif" display="inline" overflow="scroll"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mtext>,</mml:mtext><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml:msup><mn of two-electron atoms. Chemical Physics Letters, 2009, 478, 292-294.	1.2	8
20	Metastable bound D1,3o states below N=3 ionization threshold of He+. Journal of Chemical Physics, 2010, 132, 134107.	1.2	8
21	On the diagnosis of fluorescence active autoionizing states of helium. Chemical Physics Letters, 2011, 517, 223-226.	1.2	8
22	Electronic Structure of Helium Atom in a Quantum Dot. Communications in Theoretical Physics, 2016, 65, 347-353.	1.1	8
23	Electron affinity of exotic systems under Debye plasma. International Journal of Quantum Chemistry, 2007, 107, 946-951.	1.0	7
24	One photon two electron excitations between doubly excited states of helium. Journal of Chemical Physics, 2007, 126, 011104.	1.2	5
25	Three-body negative ions under Coulomb interaction. Physica Scripta, 2012, 85, 065305.	1.2	5
26	Nonlinear response properties of atomic hydrogen under quantum plasma environment: A timeâ€dependent variation perturbation study on hyperpolarizability and twoâ€photon excitations. International Journal of Quantum Chemistry, 2020, 120, e26422.	1.0	5
27	Stabilization method with the relativistic configuration-interaction calculation applied to two-electron resonances. Physical Review A, 2021, 103, .	1.0	5
28	THREE-POINT AREA METHOD FOR THERMOLUMINESCENCE GLOW CURVE ANALYSIS AND ITS APPLICATION TO THE GLOW PEAK OF K2SRP2O7:PR. Radiation Protection Dosimetry, 2021, 193, 247-258.	0.4	4
29	Time dependent variation perturbation calculation of two-photon transition probability and hyperfine shift in hydrogen atom under plasma environment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 402, 127343.	0.9	4
30	Analysis of Thermoluminescence Glow Curves Using Derivatives of Different Orders. Radiation Protection Dosimetry, 2017, 175, 493-502.	0.4	3
31	Doubly Excited 1,3F e States of Two-Electron Atoms under Weakly Coupled Plasma Environment. Communications in Theoretical Physics, 2019, 71, 853.	1.1	3
32	Electronic structure calculations of compressed Li atom using composite technique under Ritz variational framework. International Journal of Quantum Chemistry, 2021, 121, e26570.	1.0	3
33	Reappraisal of Peak Shape Method Based on Average Geometrical Symmetry Factor and Its Application to Thermoluminescence Glow Curves. Physica Status Solidi (B): Basic Research, 2021, 258, 2100277.	0.7	3
34	Structural modifications of two-electron systems under isotropic harmonic confinement. European Physical Journal D, 2021, 75, 1.	0.6	2
35	An Overview on Peak Shape Method for Thermoluminescence Glow Curve Analysis. Advances in Chemical and Materials Engineering Book Series, 0, , 26-52.	0.2	2
36	On the determination of activation energy and the order of kinetics in thermoluminescence. Radiation Effects and Defects in Solids, 2015, 170, 977-988.	0.4	1

#	Article	IF	Citations
37	Satellite lines of helium-like ions in strongly coupled plasma environment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107830.	1.1	1
38	Two-electron atoms under spherical confinement. Journal of Physics: Conference Series, 2014, 488, 152012.	0.3	0
39	Borromean states of exotic systems under screened coulomb interactions. Journal of Physics: Conference Series, 2014, 488, 152010.	0.3	0
40	Fluorescence active autoionizing states of highly stripped helium-like ions. Journal of Physics: Conference Series, 2014, 488, 152011.	0.3	0
41	Two-electron ions in strongly coupled plasma environment. Journal of Physics: Conference Series, 2015, 635, 092008.	0.3	0
42	Helium-like magnesium embedded in strongly coupled plasma. AIP Conference Proceedings, 2016, , .	0.3	0
43	Thermoluminescence glow curve analysis using temperature dependent frequency factor in OTOR model. Radiation Measurements, 2022, 156, 106820.	0.7	0