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	Thermoluminescence glow curve analysis using temperature dependent frequency factor in OTOR model. Radiation Measurements, 2022, 156, 106820.	0.7	0
2	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
3	Stabilization method with the relativistic configuration-interaction calculation applied to two-electron resonances. Physical Review A, 2021, 103, .	1.0	5
4	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
5	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
6	Structural modifications of two-electron systems under isotropic harmonic confinement. European Physical Journal D, 2021, 75, 1.	0.6	2
7	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
8	Satellite lines of helium-like ions in strongly coupled plasma environment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107830.	1.1	1
9	Frequency dependent hyperpolarizability and two photon excitations in hydrogen atom confined under classical plasma environment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126115.	0.9	9
10	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
11	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
12	Explicitly correlated variational estimates of the energy levels of negative hydrogen ion under spatial confinement. International Journal of Quantum Chemistry, 2018, 118, e25597.	1.0	15
13	Analysis of Thermoluminescence Glow Curves Using Derivatives of Different Orders. Radiation Protection Dosimetry, 2017, 175, 493-502.	0.4	3
14	Two-electron atoms under spatially compressed Debye plasma. Physics of Plasmas, 2016, 23, .	0.7	17
15	Electronic Structure of Helium Atom in a Quantum Dot. Communications in Theoretical Physics, 2016, 65, 347-353.	1.1	8
16	Ritz variational calculation for the singly excited states of compressed twoâ€electron atoms. International Journal of Quantum Chemistry, 2016, 116, 1802-1813.	1.0	15
17	Helium-like magnesium embedded in strongly coupled plasma. AIP Conference Proceedings, 2016, , .	0.3	0
18	Two-electron ions in strongly coupled plasma environment. Journal of Physics: Conference Series, 2015, 635, 092008.	0.3	0

#	Article	IF	Citations
19	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
20	Nonrelativistic structure calculations of two-electron ions in a strongly coupled plasma environment. Physical Review A, 2015, 91, .	1.0	41
21	Two-electron atoms under spherical confinement. Journal of Physics: Conference Series, 2014, 488, 152012.	0.3	0
22	Exotic systems under screened Coulomb interactions: a study on Borromean windows. Physica Scripta, 2014, 89, 015401.	1.2	15
23	Borromean states of exotic systems under screened coulomb interactions. Journal of Physics: Conference Series, 2014, 488, 152010.	0.3	0
24	Fluorescence active autoionizing states of highly stripped helium-like ions. Journal of Physics: Conference Series, 2014, 488, 152011.	0.3	0
25	Precise estimation of the energy levels of two-electron atoms under spherical confinement. Physica Scripta, 2013, 87, 065305.	1.2	36
26	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:msup		

#	Article	IF	Citations
37	One photon two electron excitations between doubly excited states of helium. Journal of Chemical Physics, 2007, 126, 011104.	1.2	5
38	Electron affinity of exotic systems under Debye plasma. International Journal of Quantum Chemistry, 2007, 107, 946-951.	1.0	7
39	Atomic structure under external confinements: Effect of plasma. International Journal of Quantum Chemistry, 2007, 107, 2708-2715.	1.0	12
40	Variational calculation for the doubly excited state (2p2)3Pe of BeIII. Journal of Chemical Physics, 2005, 123, 196102.	1.2	10
41	Radial and angular correlation in heliumlike ions. International Journal of Quantum Chemistry, 2003, 92, 413-418.	1.0	8
42	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
43	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