Sam Azadi

List of Publications by Year
in descending order

35 papers	827 citations	430442 18 h-index	476904 29 g-index
35 all docs	35 docs citations	35 times ranked	822 citing authors

#	Article	IF	Citations
1	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math> space-time method: Energy band gap of solid hydrogen. Physical Review B, 2022, 105, .	1.1	0
2	Low-density phase diagram of the three-dimensional electron gas. Physical Review B, 2022, 105, .	1.1	13
3	Quasiparticle Effective Mass of the Three-Dimensional Fermi Liquid by Quantum MonteÂCarlo. Physical Review Letters, 2021, 127, 086401.	2.9	12
4	On the Possibility of Helium Adsorption in Nitrogen Doped Graphitic Materials. Scientific Reports, 2020, 10, 5832.	1.6	9
5	Equation of state of atomic solid hydrogen by stochastic many-body wave function methods. Journal of Chemical Physics, 2020, 153, 204107.	1.2	5
6	Unconventional phase III of high-pressure solid hydrogen. Physical Review B, 2019, 100, .	1.1	10
7	Efficient method for grand-canonical twist averaging in quantum Monte Carlo calculations. Physical Review B, 2019, 100, .	1.1	16
8	Nuclear quantum effects induce metallization of dense solid molecular hydrogen. Journal of Computational Chemistry, 2018, 39, 262-268.	1.5	16
9	Quantum Monte Carlo calculations of van der Waals interactions between aromatic benzene rings. Physical Review B, 2018, 97, .	1.1	6
10	High-pressure hydrogen sulfide by diffusion quantum Monte Carlo. Journal of Chemical Physics, 2017, 146, 084503.	1.2	14
11	Nature of the metallization transition in solid hydrogen. Physical Review B, 2017, 95, .	1.1	34
12	Quantum plasmonic nanoantennas. Physical Review B, 2017, 95, .	1.1	30
13	The role of van der Waals and exchange interactions in high-pressure solid hydrogen. Physical Chemistry Chemical Physics, 2017, 19, 21829-21839.	1.3	23
14	Low-pressure phase diagram of crystalline benzene from quantum Monte Carlo. Journal of Chemical Physics, 2016, 145, .	1.2	11
15	Resonating valence bond quantum Monte Carlo: Application to the ozone molecule. International Journal of Quantum Chemistry, 2015, 115, 1673-1677.	1.0	7
16	Systematic study of finite-size effects in quantum Monte Carlo calculations of real metallic systems. Journal of Chemical Physics, 2015, 143, 102807.	1.2	26
17	Chemical accuracy from quantum Monte Carlo for the benzene dimer. Journal of Chemical Physics, 2015, 143, 104301.	1.2	19
18	Dissociation of High-Pressure Solid Molecular Hydrogen: A Quantum MonteÂCarlo and Anharmonic Vibrational Study. Physical Review Letters, 2014, 112, 165501.	2.9	102

#	Article	IF	Citations
19	Anharmonicity and finite-temperature effects on the structure, stability, and vibrational spectrum of phase III of solid molecular hydrogen. Physical Review B, 2014, 90, .	1.1	15
20	Fate of density functional theory in the study of high-pressure solid hydrogen. Physical Review B, 2013, 88, .	1.1	62
21	Quantum Monte Carlo study of high pressure solid molecular hydrogen. New Journal of Physics, 2013, 15, 113005.	1.2	45
22	Publisher's Note: Fate of density functional theory in the study of high-pressure solid hydrogen [Phys. Rev. B88, 014115 (2013)]. Physical Review B, 2013, 88, .	1.1	1
23	Absence of metallization in solid molecular hydrogen. JETP Letters, 2012, 95, 449-453.	0.4	19
24	Fate of the Resonating Valence Bond in Graphene. Physical Review Letters, 2011, 107, 086807.	2.9	29
25	First principle study of unzipped boron nitride nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 605-609.	0.9	12
26	Systematically convergent method for accurate total energy calculations with localized atomic orbitals. Physical Review B, 2010, 82, .	1.1	24
27	The effect of Stone-Wales defect orientations on the electronic properties of single-walled carbon nanotubes. Computational Materials Science, 2010, 49, 699-703.	1.4	27
28	ON THE FLUCTUATIONS OF WATER WAVES GOVERNED BY THE CAMASSAâ€“HOLM AND KdV EQUATIONS IN (1+1)-DIMENSION. International Journal of Modern Physics B, 2009, 23, 149-158.	1.0	1
29	Resonating valence bond wave function with molecular orbitals: Application to first-row molecules. Journal of Chemical Physics, 2009, 131, 154116.	1.2	81
30	A consistent description of the iron dimer spectrum with a correlated single-determinant wave function. Chemical Physics Letters, 2009, 477, 255-258.	1.2	24
31	Ab initio density functional theory investigation of electronic properties of semiconducting single-walled carbon nanotube bundles. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 3055-3059.	1.3	12
32	Structure and electronic properties of native and defected gallium nitride nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6935-6939.	0.9	36
33	Magnetism in defected single-walled boron nitride nanotubes. Europhysics Letters, 2008, 83, 17007.	0.7	18
34	When double-wall carbon nanotubes can become metallic or semiconducting. Journal of Physics Condensed Matter, 2007, 19, 176209.	0.7	38
35	Boron and nitrogen-doped single-walled carbon nanotube. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 157-160.	1.3	30