Amrendra Vijay

List of Publications by Year
in descending order

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26 papers	420 citations	1040056 9 h-index	713466 21 g-index
26 all docs	26 docs citations	26 times ranked	516 citing authors

#	Article	IF	Citations
1	Spontaneous magnetic order in complex materials: Role of longitudinal spin-orbit interactions. Journal of Magnetism and Magnetic Materials, 2017, 432, 559-565.	2.3	0
2	Anomalies in the equilibrium and nonequilibrium properties of correlated ions in complex molecular environments. Physical Review E, 2017, 96, 052133.	2.1	1
3	Effective Hamiltonians for correlated narrow energy band systems and magnetic insulators: Role of spin-orbit interactions in metal-insulator transitions and magnetic phase transitions. Journal of Chemical Physics, 2016, 144, 144107.	3.0	3
4	Normal and Anomalous Diffusion: An Analytical Study Based on Quantum Collision Dynamics and Boltzmann Transport Theory. Journal of Physical Chemistry B, 2016, 120, 9608-9620.	2.6	1
5	Spinâ€“orbit interactions and magnetic phase transitions. Journal of Magnetism and Magnetic Materials, 2016, 419, 412-419.	2.3	1
6	Electromagnetic Response Tensors for Normal Conducting Materials. Journal of Physical Chemistry C, 2014, 118, 7018-7031.	3.1	2
7	Optics of Conducting Materials: An Electromagnetic Potential Perspective. Journal of Physical Chemistry C, 2014, 118, 11869-11885.	3.1	0
8	Scattering and Bound States:Â A Lorentzian Function-Based Spectral Filter Approachâ€. Journal of Physical Chemistry A, 2004, 108, 8987-9003.	2.5	6
9	Inverse Scattering Theory:Â Strategies Based on the Volterra Inverse Series for Acoustic Scatteringâ€. Journal of Physical Chemistry B, 2004, 108, 10522-10528.	2.6	4
10	Adsorption of gold on stoichiometric and reduced rutile TiO2â€,(110) surfaces. Journal of Chemical Physics, 2003, 118, 6536-6551.	3.0	202
11	Inverse Scattering Theory:â€‰ Renormalization of the Lippmannâ^'Schwinger Equation for Quantum Elastic Scattering with Spherical Symmetry. Journal of Physical Chemistry A, 2003, 107, 7230-7235.	2.5	9
12	A Lorentzian function based spectral filter for calculating the energy of excited bound states in quantum mechanics. Journal of Chemical Physics, 2003, 118, 1007-1014.	3.0	2
13	Reply to Comment on â€œSpectral filters in quantum mechanics: A measurement theory perspectiveâ€. Physical Review E, 2002, 65, 028702.	2.1	4
14	A polynomial expansion of the quantum propagator, the Greenâ€™s function, and the spectral density operator. Journal of Chemical Physics, 2002, 116, 60.	3.0	19
15	Structure of the (001) surface of Î³ alumina. Journal of Chemical Physics, 2002, 117, 4509-4516.	3.0	31
16	Spectral filters in quantum mechanics:â€ƒA measurement theory perspective. Physical Review E, 2000, 62, 4351-4364.	2.1	14
17	Time propagation and spectral filters in quantum dynamics: A Hermite polynomial perspective. Journal of Chemical Physics, 1999, 111, 10794-10805.	3.0	18
18	Semiclassical wave packet calculations on ionâ€“molecule reactions: Studies on B+(3Pu)+H2 reaction. Journal of Chemical Physics, 1997, 107, 2974-2989.	3.0	6

#	Article	IF	Citations
19	A comparative study of the energetics, structures, and mechanisms of the HCNâ€,â†”â€,HNC and LiCNâ€,â†”â€,LiNC isomerizations. Canadian Journal of Chemistry, 1996, 74, 1072-1077.	1.1	18
20	Theoretical investigation of equilibrium structure, harmonic force field and vibrational spectra of borane diammine: effects of basis set and electron correlation. Computational and Theoretical Chemistry, 1996, 375, 127-141.	1.5	0
21	Theoretical studies of structure, ground state vibrations and force field of methyldiborane. Journal of Molecular Structure, 1996, 384, 203-214.	3.6	2
22	SCF and electron correlation studies on structure, force constants and vibrational spectra of borane monoammoniate complex. Chemical Physics, 1995, 198, 345-352.	1.9	10
23	Effects of basis set and electron correlation on the structure and vibrational spectra of diborane. Journal of Molecular Structure, 1995, 351, 215-229.	3.6	14
24	Ab initio study of the force field, geometry and vibrational assignment of urea. Journal of Molecular Structure, 1993, 295, 245-258.	3.6	25
25	A theoretical study of the vibrational spectra, geometry and force field of thiourea. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1565-1574.	0.1	22
26	Ab initio study of the vibrational assignment and force field of thiosemicarbazide-d0 and -d5. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 1601-1609.	0.1	6