

Amrendra Vijay

List of Publications by Year in descending order

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26
papers

420
citations

1040056

9
h-index

713466

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26
all docs

26
docs citations

26
times ranked

516
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of gold on stoichiometric and reduced rutile TiO ₂ (110) surfaces. Journal of Chemical Physics, 2003, 118, 6536-6551.	3.0	202
2	Structure of the (001) surface of γ -alumina. Journal of Chemical Physics, 2002, 117, 4509-4516.	3.0	31
3	Ab initio study of the force field, geometry and vibrational assignment of urea. Journal of Molecular Structure, 1993, 295, 245-258.	3.6	25
4	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
5	A polynomial expansion of the quantum propagator, the Green's function, and the spectral density operator. Journal of Chemical Physics, 2002, 116, 60.	3.0	19
6	A comparative study of the energetics, structures, and mechanisms of the HCN \rightleftharpoons HNC and LiCN \rightleftharpoons LiNC isomerizations. Canadian Journal of Chemistry, 1996, 74, 1072-1077.	1.1	18
7	Time propagation and spectral filters in quantum dynamics: A Hermite polynomial perspective. Journal of Chemical Physics, 1999, 111, 10794-10805.	3.0	18
8	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
9	Spectral filters in quantum mechanics: A measurement theory perspective. Physical Review E, 2000, 62, 4351-4364.	2.1	14
10	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
11	Inverse Scattering Theory: Renormalization of the Lippmann-Schwinger Equation for Quantum Elastic Scattering with Spherical Symmetry. Journal of Physical Chemistry A, 2003, 107, 7230-7235.	2.5	9
12	Ab initio study of the vibrational assignment and force field of thiosemicarbazide-d ₀ and -d ₅ . Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 1601-1609.	0.1	6
13	Semiclassical wave packet calculations on ion-molecule reactions: Studies on B+(3Pu)+H ₂ reaction. Journal of Chemical Physics, 1997, 107, 2974-2989.	3.0	6
14	Scattering and Bound States: A Lorentzian Function-Based Spectral Filter Approach. Journal of Physical Chemistry A, 2004, 108, 8987-9003.	2.5	6
15	Reply to Comment on "Spectral filters in quantum mechanics: A measurement theory perspective". Physical Review E, 2002, 65, 028702.	2.1	4
16	Inverse Scattering Theory: Strategies Based on the Volterra Inverse Series for Acoustic Scattering. Journal of Physical Chemistry B, 2004, 108, 10522-10528.	2.6	4
17	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
18	Theoretical studies of structure, ground state vibrations and force field of methylborane. Journal of Molecular Structure, 1996, 384, 203-214.	3.6	2

#	ARTICLE	IF	CITATIONS
19	A Lorentzian function based spectral filter for calculating the energy of excited bound states in quantum mechanics. <i>Journal of Chemical Physics</i> , 2003, 118, 1007-1014.	3.0	2
20	Electromagnetic Response Tensors for Normal Conducting Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7018-7031.	3.1	2
21	Normal and Anomalous Diffusion: An Analytical Study Based on Quantum Collision Dynamics and Boltzmann Transport Theory. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9608-9620.	2.6	1
22	Spin-orbit interactions and magnetic phase transitions. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 412-419.	2.3	1
23	Anomalies in the equilibrium and nonequilibrium properties of correlated ions in complex molecular environments. <i>Physical Review E</i> , 2017, 96, 052133.	2.1	1
24	Theoretical investigation of equilibrium structure, harmonic force field and vibrational spectra of borane diammine: effects of basis set and electron correlation. <i>Computational and Theoretical Chemistry</i> , 1996, 375, 127-141.	1.5	0
25	Optics of Conducting Materials: An Electromagnetic Potential Perspective. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11869-11885.	3.1	0
26	Spontaneous magnetic order in complex materials: Role of longitudinal spin-orbit interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 559-565.	2.3	0