

John Sabin

List of Publications by Year in descending order

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48
papers

974
citations

567281

15
h-index

434195

31
g-index

49
all docs

49
docs citations

49
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization Propagator Calculations. <i>Advances in Quantum Chemistry</i> , 1978, 11, 275-352.	0.8	338
2	Theoretical Investigation of the Electronic Structure and Properties of N_3^- , N_3 , and N_3^+ . <i>Journal of Chemical Physics</i> , 1971, 55, 1821-1829.	3.0	77
3	Theoretical stopping cross sections of C_1-H , C_1-C and $C=C$ bonds for swift protons. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 27, 280-286.	1.4	52
4	Calculation of molecular mean excitation energies via the polarization propagator formalism: H_2 and H_2O . <i>Physical Review A</i> , 1986, 34, 1104-1111.	2.5	50
5	Molecular shape, capacitance, and chemical hardness. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 358-366.	2.0	50
6	On the applicability of LCAO- X^{\pm} methods to molecules containing transition metal atoms: The nickel atom and nickel hydride. <i>International Journal of Quantum Chemistry</i> , 1977, 12, 81-87.	2.0	42
7	Ab Initio calculation of the vibrational and electronic properties of carbon dioxide. <i>Journal of Chemical Physics</i> , 1973, 59, 3003-3007.	3.0	30
8	Trajectory and molecular binding effects in stopping cross section for hydrogen beams on H_2 . <i>Journal of Chemical Physics</i> , 2002, 116, 2783-2793.	3.0	26
9	Hydrogen Bonds Involving Sulfur. II. The Hydrogen Sulfide- π -Hydrosulfide Complex. <i>Journal of Chemical Physics</i> , 1971, 54, 4675-4680.	3.0	25
10	SCF calculation of the effective parameters for the hubbard model of TCNQ charge-transfer salts. <i>Molecular Physics</i> , 1973, 26, 1177-1184.	1.7	23
11	Simulated structure and energetics of endohedral complexes of noble gas atoms in buckminsterfullerene. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 3061-3066.	2.0	23
12	Dynamics of proton-acetylene collisions at 30 eV. <i>Journal of Chemical Physics</i> , 2002, 117, 1103-1108.	3.0	20
13	Polarization propagator calculation of spectroscopic properties of molecules. <i>International Journal of Quantum Chemistry</i> , 1991, 39, 371-386.	2.0	19
14	Mean Excitation Energies for Biomolecules. <i>Advances in Quantum Chemistry</i> , 2011, 62, 215-242.	0.8	18
15	Mean Excitation Energies and Energy Deposition Characteristics of Bio-organic Molecules. <i>Journal of Physical Chemistry B</i> , 2010, 114, 633-637.	2.6	16
16	Z-dependence of mean excitation energies for second and third row atoms and their ions. <i>Journal of Chemical Physics</i> , 2018, 148, 174307.	3.0	13
17	Coupled cluster calculations of mean excitation energies of the noble gas atoms He, Ne and Ar and of the H_2 molecule. <i>Molecular Physics</i> , 2014, 112, 751-761.	1.7	12
18	Mean excitation energies for molecular ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 394, 73-80.	1.4	12

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19	Shape-dependent molecular polarizabilities. <i>International Journal of Quantum Chemistry</i> , 2002, 86, 35-39.	2.0	11
20	Geometrical basis for molecular stopping anisotropy. <i>Physical Review A</i> , 1998, 58, 4616-4621.	2.5	10
21	Calculation of mean excitation energies. <i>Advances in Quantum Chemistry</i> , 2019, 80, 225-245.	0.8	10
22	Intermolecular potential studies of hydrogen-molecule interactions with rare-gas atoms. <i>International Journal of Quantum Chemistry</i> , 1976, 10, 213-221.	2.0	9
23	A semi-empirical investigation of the electronic structure and stability of the oxycumulenes. <i>International Journal of Quantum Chemistry</i> , 1973, 7, 261-267.	2.0	9
24	The influence of polarization functions on the directional. <i>Molecular Physics</i> , 1979, 37, 463-472.	1.7	8
25	Stopping power of molecules for fast ions. <i>Molecular Physics</i> , 2010, 108, 2891-2897.	1.7	8
26	Continuum Contributions to Dipole Oscillator-Strength Sum Rules for Hydrogen in Finite Basis Sets. <i>Advances in Quantum Chemistry</i> , 2017, 75, 229-241.	0.8	8
27	CNDO Study of the Properties of Ionic Defect Structure in a Model One-Dimensional Hydrogen-Bonded Chain. <i>Journal of Chemical Physics</i> , 1972, 56, 45-51.	3.0	7
28	Prediction of crystalline properties from ultrathin layered systems: Energy deposition. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 153-159.	2.0	6
29	Test of the validity of Bragg's rule for mean excitation energies of small molecules and ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 444, 112-116.	1.4	6
30	Excited electronic states of a hydrogen bond: Bifluoride ion. <i>International Journal of Quantum Chemistry</i> , 1979, 16, 273-275.	2.0	5
31	Amino Acid Mean Excitation Energies and Directional Dependencies from Core and Bond Calculations. , 2008, , .		5
32	The quadrupole polarizability and spectral moments of the quadrupole oscillator strength distribution of N ₂ . <i>Molecular Physics</i> , 1991, 72, 1267-1284.	1.7	4
33	An analytical representation of shell corrections for stopping power. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2933-2936.	2.0	4
34	Few-parameter exponentially correlated wavefunctions for the ground state of lithium. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3791-3797.	2.0	4
35	Calculation of mean excitation energies of 3d-elements and their cations. <i>Molecular Physics</i> , 2021, 119, e1823508.	1.7	4
36	Generalized oscillator strengths for calculation of molecular stopping properties, some preliminary results: Co. , 1997, , .		2

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37	Bond correction factors and their applications to the calculation of molecular mean excitation energies. Nuclear Instruments & Methods in Physics Research B, 2020, 468, 28-36.	1.4	2
38	Molecular shape, capacitance, and chemical hardness. International Journal of Quantum Chemistry, 2000, 77, 358.	2.0	2
39	Simulations of Xe@C ₆₀ collisions with graphitic films. International Journal of Quantum Chemistry, 2008, 108, 3010-3015.	2.0	1
40	A comment concerning Si ₂ Hi ₂ S type hydrogen bonds. International Journal of Quantum Chemistry, 1971, 5, 133-136.	2.0	1
41	A CNDO estimate of the relative affinities of taurine and isethionic acid for alkali metal ions. International Journal of Quantum Chemistry, 1974, 8, 43-48.	2.0	1
42	Ab Initio calculation of some electronically excited states of a hydrogen-bonded system: A preliminary report. International Journal of Quantum Chemistry, 1975, 9, 259-262.	2.0	1
43	From Stopping Power to Radiation Dose Equivalent: Views of the Interaction of Swift Ions with Matter. , 2008, , .		0
44	Localized electronic excitation in a hydrogen bond. International Journal of Quantum Chemistry, 2009, 22, 289-296.	2.0	0
45	On the orbital implementation of the kinetic theory of stopping. International Journal of Quantum Chemistry, 1989, 36, 557-563.	2.0	0
46	Electron distribution in a short a-type hydrogen bond. International Journal of Quantum Chemistry, 2009, 6, 301-304.	2.0	0
47	Oscillatory behaviour of charge transfer probabilities in ion-atom collisions. Molecular Physics, 2012, 110, 561-563.	1.7	0
48	On the relationship between bond correction factors and elemental mean excitation energies. Nuclear Instruments & Methods in Physics Research B, 2020, 474, 6-9.	1.4	0