

John Sabin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9072729/publications.pdf>

Version: 2024-02-01

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 | Calculation of mean excitation energies of 3d-elements and their cations. <i>Molecular Physics</i> , 2021, 119, e1823508. | 1.7 | 4 |
| 2 | On the relationship between bond correction factors and elemental mean excitation energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 474, 6-9. | 1.4 | 0 |
| 3 | Bond correction factors and their applications to the calculation of molecular mean excitation energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 468, 28-36. | 1.4 | 2 |
| 4 | Calculation of mean excitation energies. <i>Advances in Quantum Chemistry</i> , 2019, 80, 225-245. | 0.8 | 10 |
| 5 | 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 |
| 6 | 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 |
| 7 | Mean excitation energies for molecular ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 394, 73-80. | 1.4 | 12 |
| 8 | 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 |
| 9 | 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 |
| 10 | Oscillatory behaviour of charge transfer probabilities in ion-atom collisions. <i>Molecular Physics</i> , 2012, 110, 561-563. | 1.7 | 0 |
| 11 | Mean Excitation Energies for Biomolecules. <i>Advances in Quantum Chemistry</i> , 2011, 62, 215-242. | 0.8 | 18 |
| 12 | 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 |
| 13 | Stopping power of molecules for fast ions. <i>Molecular Physics</i> , 2010, 108, 2891-2897. | 1.7 | 8 |
| 14 | Localized electronic excitation in a hydrogen bond. <i>International Journal of Quantum Chemistry</i> , 2009, 22, 289-296. | 2.0 | 0 |
| 15 | An analytical representation of shell corrections for stopping power. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2933-2936. | 2.0 | 4 |
| 16 | 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 |
| 17 | Electron distribution in a short a-type hydrogen bond. <i>International Journal of Quantum Chemistry</i> , 2009, 6, 301-304. | 2.0 | 0 |
| 18 | Simulations of Xe@C ₆₀ collisions with graphitic films. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 3010-3015. | 2.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Amino Acid Mean Excitation Energies and Directional Dependencies from Core and Bond Calculations. , 2008, , . | | 5 |
| 20 | From Stopping Power to Radiation Dose Equivalent: Views of the Interaction of Swift Ions with Matter. , 2008, , . | | 0 |
| 21 | Simulated structure and energetics of endohedral complexes of noble gas atoms in buckminsterfullerene. International Journal of Quantum Chemistry, 2007, 107, 3061-3066. | 2.0 | 23 |
| 22 | Dynamics of proton-acetylene collisions at 30 eV. Journal of Chemical Physics, 2002, 117, 1103-1108. | 3.0 | 20 |
| 23 | Trajectory and molecular binding effects in stopping cross section for hydrogen beams on H ₂ . Journal of Chemical Physics, 2002, 116, 2783-2793. | 3.0 | 26 |
| 24 | Shape-dependent molecular polarizabilities. International Journal of Quantum Chemistry, 2002, 86, 35-39. | 2.0 | 11 |
| 25 | Molecular shape, capacitance, and chemical hardness. International Journal of Quantum Chemistry, 2000, 77, 358-366. | 2.0 | 50 |
| 26 | Molecular shape, capacitance, and chemical hardness. International Journal of Quantum Chemistry, 2000, 77, 358. | 2.0 | 2 |
| 27 | Geometrical basis for molecular stopping anisotropy. Physical Review A, 1998, 58, 4616-4621. | 2.5 | 10 |
| 28 | Generalized oscillator strengths for calculation of molecular stopping properties, some preliminary results: Co. , 1997, , . | | 2 |
| 29 | Prediction of crystalline properties from ultrathin layered systems: Energy deposition. International Journal of Quantum Chemistry, 1995, 56, 153-159. | 2.0 | 6 |
| 30 | Polarization propagator calculation of spectroscopic properties of molecules. International Journal of Quantum Chemistry, 1991, 39, 371-386. | 2.0 | 19 |
| 31 | The quadrupole polarizability and spectral moments of the quadrupole oscillator strength distribution of N ₂ . Molecular Physics, 1991, 72, 1267-1284. | 1.7 | 4 |
| 32 | On the orbital implementation of the kinetic theory of stopping. International Journal of Quantum Chemistry, 1989, 36, 557-563. | 2.0 | 0 |
| 33 | Theoretical stopping cross sections of C _{1s} -H, C _{1s} -C and C=C bonds for swift protons. Nuclear Instruments & Methods in Physics Research B, 1987, 27, 280-286. | 1.4 | 52 |
| 34 | Calculation of molecular mean excitation energies via the polarization propagator formalism:H ₂ andH ₂ O. Physical Review A, 1986, 34, 1104-1111. | 2.5 | 50 |
| 35 | The influence of polarization functions on the directional. Molecular Physics, 1979, 37, 463-472. | 1.7 | 8 |
| 36 | Excited electronic states of a hydrogen bond: Bifluoride ion. International Journal of Quantum Chemistry, 1979, 16, 273-275. | 2.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Polarization Propagator Calculations. <i>Advances in Quantum Chemistry</i> , 1978, 11, 275-352. | 0.8 | 338 |
| 38 | On the applicability of LCAO-X α 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 |
| 39 | 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 |
| 40 | Ab Initio calculation of some electronically excited states of a hydrogen-bonded system: A preliminary report. <i>International Journal of Quantum Chemistry</i> , 1975, 9, 259-262. | 2.0 | 1 |
| 41 | A CNDO estimate of the relative affinities of taurine and isethionic acid for alkali metal ions. <i>International Journal of Quantum Chemistry</i> , 1974, 8, 43-48. | 2.0 | 1 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Theoretical Investigation of the Electronic Structure and Properties of N $_3^{\pm}$, N $_3$, and N $_3^+$. <i>Journal of Chemical Physics</i> , 1971, 55, 1821-1829. | 3.0 | 77 |
| 47 | Hydrogen Bonds Involving Sulfur. II. The Hydrogen Sulfide-Hydrosulfide Complex. <i>Journal of Chemical Physics</i> , 1971, 54, 4675-4680. | 3.0 | 25 |
| 48 | A comment concerning S \cdots H \cdots S type hydrogen bonds. <i>International Journal of Quantum Chemistry</i> , 1971, 5, 133-136. | 2.0 | 1 |