

# Ernest Davidson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3878215/publications.pdf>

Version: 2024-02-01

399  
papers

35,042  
citations

6233

80  
h-index

4203

174  
g-index

462  
all docs

462  
docs citations

462  
times ranked

11572  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Coherent X-Ray Scattering for the Hydrogen Atom in the Hydrogen Molecule. Journal of Chemical Physics, 1965, 42, 3175-3187.  | 1.2  | 5,338     |
| 2  | Configuration interaction calculations on the nitrogen molecule. International Journal of Quantum Chemistry, 1974, 8, 61-72.   | 1.0  | 2,701     |
| 3  | The iterative calculation of a few of the lowest eigenvalues and corresponding eigenvectors of large real-symmetric matrices. Journal of Computational Physics, 1975, 17, 87-94. | 1.9  | 2,203     |
| 4  | Ligand spin polarization and antiferromagnetic coupling in transition metal dimers. Chemical Physics, 1986, 109, 131-143.  | 0.9  | 904       |
| 5  | Basis set selection for molecular calculations. Chemical Reviews, 1986, 86, 681-696.   | 23.0 | 763       |
| 6  | Effects of electron repulsion in conjugated hydrocarbon diradicals. Journal of the American Chemical Society, 1977, 99, 4587-4594.   | 6.6  | 623       |
| 7  | Size consistency in the dilute helium gas electronic structure. Chemical Physics Letters, 1977, 52, 403-406.   | 1.2  | 573       |
| 8  | One- and two-electron integrals over cartesian gaussian functions. Journal of Computational Physics, 1978, 26, 218-231.  | 1.9  | 562       |
| 9  | Ground-state correlation energies for atomic ions with 3 to 18 electrons. Physical Review A, 1993, 47, 3649-3670.  | 1.0  | 488       |
| 10 | Comment on "Comment on Dunning's correlation-consistent basis sets". Chemical Physics Letters, 1996, 260, 514-518.   | 1.2  | 375       |
| 11 | Studies in Configuration Interaction: The First-Row Diatomic Hydrides. Physical Review, 1969, 183, 23-30.  | 2.7  | 360       |
| 12 | Ground-state correlation energies for two- to ten-electron atomic ions. Physical Review A, 1991, 44, 7071-7083.  | 1.0  | 360       |
| 13 | Electronic Population Analysis of Molecular Wavefunctions. Journal of Chemical Physics, 1967, 46, 3320-3324.   | 1.2  | 352       |
| 14 | A Natural Orbital Based Energy Calculation for Helium Hydride and Lithium Hydride. The Journal of Physical Chemistry, 1966, 70, 2675-2685.                                       | 2.9  | 340       |
| 15 | A test of the Hirshfeld definition of atomic charges and moments. Theoretica Chimica Acta, 1992, 83, 319-330.  | 0.9  | 276       |
| 16 | Porphyryns XXVIII. Extended Hückel calculations on metal phthalocyanines and tetrazaporphins. Theoretica Chimica Acta, 1973, 30, 9-30.   | 0.9  | 268       |
| 17 | Asymptotic behavior of atomic and molecular wave functions. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 4403-4406.                | 3.3  | 268       |
| 18 | Symmetry breaking in polyatomic molecules: real and artifactual. The Journal of Physical Chemistry, 1983, 87, 4783-4790.   | 2.9  | 264       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | The Importance of Including Dynamic Electron Correlation in <i>Ab Initio</i> Calculations. <i>Accounts of Chemical Research</i> , 1996, 29, 67-75.   | 7.6  | 240       |
| 20 | One-electron properties of several small molecules using near Hartree-Fock limit basis sets. <i>Journal of Chemical Physics</i> , 1987, 86, 3424-3440.   | 1.2  | 226       |
| 21 | The two lowest energy $2A_1^2$ states of NO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1976, 64, 2908-2917.   | 1.2  | 207       |
| 22 | Properties and Uses of Natural Orbitals. <i>Reviews of Modern Physics</i> , 1972, 44, 451-464.   | 16.4 | 204       |
| 23 | Distribution of effectively unpaired electrons. <i>Chemical Physics Letters</i> , 2000, 330, 161-168.  | 1.2  | 197       |
| 24 | An approximation to frozen natural orbitals through the use of the Hartree-Fock exchange potential. <i>Journal of Chemical Physics</i> , 1981, 74, 3977-3979.  | 1.2  | 188       |
| 25 | Considerations in constructing a multireference second-order perturbation theory. <i>Journal of Chemical Physics</i> , 1994, 100, 3672-3682.   | 1.2  | 181       |
| 26 | Electron momentum spectroscopy of the valence orbitals of H <sub>2</sub> O and D <sub>2</sub> O: Quantitative comparisons using Hartree-Fock limit and correlated wavefunctions. <i>Chemical Physics</i> , 1987, 113, 19-42.   | 0.9  | 177       |
| 27 | Optimized effective potentials yielding Hartree-Fock energies and densities. <i>Journal of Chemical Physics</i> , 2006, 124, 141103.   | 1.2  | 175       |
| 28 | Is the Hydrogen Bond in Water Dimer and Ice Covalent?. <i>Journal of the American Chemical Society</i> , 2000, 122, 1210-1214.   | 6.6  | 174       |
| 29 | <i>Ab initio</i> configuration interaction calculations of the hyperfine structure in small radicals. <i>Journal of Chemical Physics</i> , 1984, 80, 1006-1017.  | 1.2  | 167       |
| 30 | Local spin. <i>Journal of Chemical Physics</i> , 2001, 115, 7382-7392.   | 1.2  | 165       |
| 31 | Nature of the Configuration-Interaction Method in <i>Ab Initio</i> Calculations. I. Ne Ground State. <i>Physical Review A</i> , 1970, 1, 644-658.  | 1.0  | 159       |
| 32 | An analysis of the hydrogen bond in ice. <i>Journal of Chemical Physics</i> , 1990, 93, 8029-8035.   | 1.2  | 154       |
| 33 | Theoretical studies of diradicals containing four $\pi$ electrons. <i>Accounts of Chemical Research</i> , 1981, 14, 69-76.   | 7.6  | 149       |
| 34 | Single-Molecule Magnets: A Two-Electron Reduced Version of a Mn <sub>12</sub> Complex and Environmental Influences on the Magnetization Relaxation of (PPh <sub>4</sub> ) <sub>2</sub> [Mn <sub>12</sub> O <sub>12</sub> (O <sub>2</sub> CCHCl <sub>2</sub> ) <sub>16</sub> (H <sub>2</sub> O) <sub>4</sub> ]. <i>Journal of the American Chemical Society</i> , 2003, 125, 3576-3588. | 6.6  | 149       |
| 35 | An <i>ab initio</i> potential energy surface study of several electronic states of NO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1976, 65, 2941-2957.   | 1.2  | 148       |
| 36 | Nature of ground and electronic excited states of higher acenes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5098-107.  | 3.3  | 147       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Selection of the Proper Canonical Roothaan-Hartree-Fock Orbitals for Particular Applications. I. Theory. <i>Journal of Chemical Physics</i> , 1972, 57, 1999-2005.   | 1.2 | 146       |
| 38 | Spin-restricted open-shell self-consistent-field theory. <i>Chemical Physics Letters</i> , 1973, 21, 565-567.  | 1.2 | 140       |
| 39 | Extended x-ray-absorption fine-structure amplitudes—Wave-function relaxation and chemical effects. <i>Physical Review B</i> , 1978, 17, 560-565.   | 1.1 | 140       |
| 40 | Large Spin Differences in Structurally Related Fe <sub>6</sub> Molecular Clusters and Their Magnetostructural Explanation. <i>Inorganic Chemistry</i> , 2004, 43, 5505-5521.   | 1.9 | 140       |
| 41 | Global topology of triatomic potential surfaces. <i>Journal of the American Chemical Society</i> , 1977, 99, 397-402.  | 6.6 | 138       |
| 42 | Large Ground-State Entropy Changes for Hydrogen Atom Transfer Reactions of Iron Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5153-5166.   | 6.6 | 134       |
| 43 | Natural Expansion of Exact Wavefunctions. II. The Hydrogen-Molecule Ground State. <i>Journal of Chemical Physics</i> , 1962, 37, 2966-2971.  | 1.2 | 132       |
| 44 | Perturbation theory for open shell systems. <i>Chemical Physics Letters</i> , 1991, 187, 451-454.  | 1.2 | 132       |
| 45 | An SCF method for hole states. <i>Journal of Chemical Physics</i> , 1976, 65, 609-613.   | 1.2 | 127       |
| 46 | Improved algorithms for the lowest few eigenvalues and associated eigenvectors of large matrices. <i>Journal of Computational Physics</i> , 1992, 103, 382-389.  | 1.9 | 123       |
| 47 | A possible definition of basis set superposition error. <i>Chemical Physics Letters</i> , 1994, 217, 48-54.  | 1.2 | 123       |
| 48 | Experimental evidence for a C <sub>2v</sub> (2B <sub>1</sub> ) ground-state structure of the methane cation radical: ESR and ab initio CI investigations of methane cation radicals (CH <sub>4</sub> <sup>+</sup> and CD <sub>2</sub> H <sub>2</sub> <sup>+</sup> ) in neon matrixes at 4 K. <i>Journal of the American Chemical Society</i> , 1984, 106, 3700-3701. | 6.6 | 122       |
| 49 | Diradical Character of the Cope Rearrangement Transition State. <i>Journal of the American Chemical Society</i> , 2000, 122, 186-187.  | 6.6 | 121       |
| 50 | Configuration interaction calculations on the planar 1( $\tilde{\epsilon}, \tilde{\epsilon}^*$ ) state of ethylene. <i>Journal of Chemical Physics</i> , 1977, 66, 2959-2971.  | 1.2 | 119       |
| 51 | The transition metal-carbonyl bond. <i>Accounts of Chemical Research</i> , 1993, 26, 628-635.  | 7.6 | 118       |
| 52 | Theoretical Calculation of the Potential Curves of the Be <sub>2</sub> Molecule. <i>Journal of Chemical Physics</i> , 1967, 47, 4972-4978.   | 1.2 | 117       |
| 53 | Single-Configuration Calculations on Excited States of Helium. II. <i>Journal of Chemical Physics</i> , 1965, 42, 4199-4200.   | 1.2 | 114       |
| 54 | Configuration Interaction Description of Electron Correlation. , 1974, , 17-30.  |     | 114       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Validity of first-order perturbation theory for relativistic energy corrections. <i>Chemical Physics Letters</i> , 1981, 84, 226-227.   | 1.2 | 113       |
| 56 | First Excited $1^1\Sigma_g^+$ State of the Hydrogen Molecule. <i>Journal of Chemical Physics</i> , 1961, 35, 1189-1202.   | 1.2 | 112       |
| 57 | Refinement of the Asymptotic Z Expansion for the Ground-State Correlation Energies of Atomic Ions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6167-6172.   | 2.9 | 110       |
| 58 | The Cope Rearrangement Revisited with Multireference Perturbation Theory. <i>Journal of the American Chemical Society</i> , 1995, 117, 774-778.   | 6.6 | 109       |
| 59 | Structure of ice Ih. Ab initio two- and three-body water-water potentials and geometry optimization. <i>Journal of Chemical Physics</i> , 1985, 83, 1223-1231.  | 1.2 | 104       |
| 60 | Zero kinetic energy photoelectron spectra of jet-cooled aniline. <i>Journal of Chemical Physics</i> , 1993, 99, 3224-3233.  | 1.2 | 103       |
| 61 | Potential energy surfaces of CH <sub>4</sub> <sup>+</sup> . <i>Journal of Chemical Physics</i> , 1988, 88, 1775-1785.   | 1.2 | 100       |
| 62 | Natural Orbitals for Hydrogen Molecule Excited States. <i>Journal of Chemical Physics</i> , 1966, 45, 2560-2576.  | 1.2 | 99        |
| 63 | The potential surfaces for the lowest singlet and triplet states of cyclobutadiene. <i>Journal of the American Chemical Society</i> , 1978, 100, 388-392.   | 6.6 | 99        |
| 64 | Facile and Reversible Cleavage of C-F Bonds. Contrasting Thermodynamic Selectivity for RuCF <sub>2</sub> H vs FOsCFH. <i>Journal of the American Chemical Society</i> , 2000, 122, 8916-8931.                       | 6.6 | 99        |
| 65 | MCSCF/CI investigation of the low-lying potential energy surfaces of the formyloxyl radical, HCO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 1983, 105, 1459-1466.                             | 6.6 | 98        |
| 66 | A multireference CI determination of the isotropic hyperfine constants for first row atoms B-F. <i>Journal of Chemical Physics</i> , 1988, 88, 7580-7587.   | 1.2 | 98        |
| 67 | A configuration interaction study of the spin dipole-dipole parameters for formaldehyde and methylene. <i>International Journal of Quantum Chemistry</i> , 1973, 7, 999-1019.                                       | 1.0 | 97        |
| 68 | A theoretical study on the potential surfaces of the lower electronic states of HCO. <i>Journal of Chemical Physics</i> , 1979, 70, 2904-2913.  | 1.2 | 97        |
| 69 | Potential surfaces for the planar cyclopentadienyl radical and cation. <i>Journal of the American Chemical Society</i> , 1979, 101, 3771-3775.  | 6.6 | 95        |
| 70 | A third isolated oxidation state for the Mn <sub>12</sub> family of single-molecule magnets. <i>Chemical Communications</i> , 2000, , 2417-2418.  | 2.2 | 92        |
| 71 | Applicability of self-consistent field techniques based on the complex coordinate method to metastable electronic states. <i>Journal of Chemical Physics</i> , 1980, 73, 3268-3273.                                 | 1.2 | 91        |
| 72 | ESR and ab initio theoretical studies of the cation radicals $14N^+4$ and $15N^+4$ : The trapping of ion-neutral reaction products in neon matrices at 4 K. <i>Journal of Chemical Physics</i> , 1987, 87, 885-897. | 1.2 | 90        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Theoretical Study of the LiH Molecule. <i>Journal of Chemical Physics</i> , 1968, 49, 4222-4229.   | 1.2 | 89        |
| 74 | Difficulties in ab initio CI calculations of the hyperfine structure of small radicals. <i>Theoretica Chimica Acta</i> , 1985, 68, 57-67.  | 0.9 | 89        |
| 75 | The Cope rearrangement revisited. <i>Journal of the American Chemical Society</i> , 1991, 113, 9756-9759.  | 6.6 | 89        |
| 76 | Coordinated carbenes from electron-rich olefins on RuHCl(PPr3i)2. <i>New Journal of Chemistry</i> , 2000, 24, 9-26.  | 1.4 | 87        |
| 77 | The water dimer: correlation energy calculations. <i>The Journal of Physical Chemistry</i> , 1993, 97, 6373-6383.  | 2.9 | 86        |
| 78 | Correlation Energy and Molecular Properties of Hydrogen Fluoride. <i>Journal of Chemical Physics</i> , 1967, 47, 360-366.  | 1.2 | 84        |
| 79 | A perturbation theory calculation on the $1\bar{1}\bar{1}\bar{1}^*$ state of formamide. <i>Journal of Chemical Physics</i> , 1978, 68, 3103-3109.  | 1.2 | 82        |
| 80 | Ab initio evaluation of the fine structure and radiative lifetime of the $3A_2(n\bar{a}_1^*\bar{1}\bar{1}^*)$ state of formaldehyde. <i>Journal of Chemical Physics</i> , 1976, 64, 4699-4710.               | 1.2 | 81        |
| 81 | Effective local potentials for orbital-dependent density functionals. <i>Journal of Chemical Physics</i> , 2006, 125, 081104.  | 1.2 | 81        |
| 82 | A theoretical investigation of some low-lying singlet states of 1,3-butadiene. <i>The Journal of Physical Chemistry</i> , 1987, 91, 4481-4490.   | 2.9 | 80        |
| 83 | Quasidegenerate variational perturbation theory and the calculation of first-order properties from variational perturbation theory wave functions. <i>Journal of Chemical Physics</i> , 1988, 89, 6798-6814. | 1.2 | 80        |
| 84 | Transition Regions in the Cope Rearrangement of 1,5-Hexadiene and Its Cyano Derivatives. <i>Journal of the American Chemical Society</i> , 2000, 122, 7377-7385.   | 6.6 | 80        |
| 85 | Some Triplet States of the Hydrogen Molecule. <i>Journal of Chemical Physics</i> , 1965, 43, 834-839.  | 1.2 | 79        |
| 86 | Electronic Structure of the B2 Molecule. <i>Journal of Chemical Physics</i> , 1967, 46, 3313-3319.   | 1.2 | 79        |
| 87 | Ab initio study of m-benzoquinodimethane. <i>Journal of the American Chemical Society</i> , 1983, 105, 1791-1795.  | 6.6 | 79        |
| 88 | Ab initio studies of [1.1.1]- and [2.2.2]propellane. <i>Journal of the American Chemical Society</i> , 1987, 109, 4133-4139.   | 6.6 | 77        |
| 89 | Different forms of perturbation theory for the calculation of the correlation energy. <i>International Journal of Quantum Chemistry</i> , 1992, 43, 755-768.   | 1.0 | 77        |
| 90 | Rotationally resolved laser photoelectron spectra of gas-phase NO: rotational propensity rules in photoionization. <i>The Journal of Physical Chemistry</i> , 1986, 90, 5078-5084.                           | 2.9 | 76        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Local spin II. <i>Molecular Physics</i> , 2002, 100, 373-383.   | 0.8 | 76        |
| 92  | Singlet-Triplet Energy Separations in Some Hydrocarbon Diradicals. <i>Annual Review of Physical Chemistry</i> , 1979, 30, 125-153.  | 4.8 | 72        |
| 93  | How robust is present-day DFT?. <i>International Journal of Quantum Chemistry</i> , 1998, 69, 241-245.  | 1.0 | 72        |
| 94  | Natural Expansions of Exact Wavefunctions. III. The Helium-Atom Ground State. <i>Journal of Chemical Physics</i> , 1963, 39, 875-880.   | 1.2 | 71        |
| 95  | Some aspects of the potential surface for singlet trimethylenemethane. <i>Journal of the American Chemical Society</i> , 1977, 99, 2053-2060.   | 6.6 | 70        |
| 96  | Stereomutation of cyclopropane revisited. An ab initio investigation of the potential surface and calculation of secondary isotope effects. <i>Journal of the American Chemical Society</i> , 1992, 114, 2085-2093. | 6.6 | 70        |
| 97  | Population analyses that utilize projection operators. <i>International Journal of Quantum Chemistry</i> , 2003, 93, 384-394.   | 1.0 | 70        |
| 98  | SCF methods for excited states. <i>International Journal of Quantum Chemistry</i> , 1976, 10, 21-31.  | 1.0 | 70        |
| 99  | A study of the ground state wave function of carbon monoxide. <i>International Journal of Quantum Chemistry</i> , 1970, 4, 223-243.   | 1.0 | 69        |
| 100 | Evaluation of a characteristic atomic radius by an ab initio method. <i>International Journal of Quantum Chemistry</i> , 1997, 62, 47-53.   | 1.0 | 69        |
| 101 | Interaction Energy of Two Ground-State Helium Atoms at Small Internuclear Distances. <i>Journal of Chemical Physics</i> , 1967, 46, 402-403.  | 1.2 | 67        |
| 102 | Fluorescence Analysis: A New Approach. <i>Analytical Letters</i> , 1975, 8, 665-681.  | 1.0 | 67        |
| 103 | The electron affinity of oxygen: A systematic configuration interaction approach. <i>Journal of Chemical Physics</i> , 1989, 90, 1024-1030.   | 1.2 | 67        |
| 104 | N-representability of the electron pair density. <i>Chemical Physics Letters</i> , 1995, 246, 209-213.  | 1.2 | 67        |
| 105 | UDFT and MCSCF Descriptions of the Photochemical Bergman Cyclization of Eneidyne. <i>Journal of the American Chemical Society</i> , 2001, 123, 2650-2657.   | 6.6 | 67        |
| 106 | Energy partitioning of the self-consistent field interaction energy of ScCO. <i>Journal of Chemical Physics</i> , 1989, 90, 5555-5562.  | 1.2 | 66        |
| 107 | Linear Inequalities for Density Matrices. <i>Journal of Mathematical Physics</i> , 1969, 10, 725-734.   | 0.5 | 65        |
| 108 | Linear Inequalities for Density Matrices. II. <i>Journal of Mathematical Physics</i> , 1972, 13, 1527-1538.   | 0.5 | 65        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Abinitio calculation of extended x-ray-absorption fine structure in Br <sub>2</sub> . <i>Physical Review B</i> , 1987, 35, 2604-2614.   | 1.1 | 65        |
| 110 | Årwdin population analysis with and without rotational invariance. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2065-2072.  | 1.0 | 65        |
| 111 | RHF and two-configuration SCF calculations are inappropriate for conjugated diradicals. <i>Tetrahedron</i> , 1982, 38, 737-739.   | 1.0 | 64        |
| 112 | A proposed antiferroelectric structure for proton ordered ice Ih. <i>Journal of Chemical Physics</i> , 1984, 81, 3741-3742.   | 1.2 | 64        |
| 113 | Zero point corrections to vertical excitation energies. <i>Chemical Physics Letters</i> , 1998, 285, 155-159.   | 1.2 | 64        |
| 114 | Laser sputtering generation of B <sub>2</sub> for ESR matrix isolation studies: comparison with ab initio CI theoretical calculations. <i>Journal of the American Chemical Society</i> , 1987, 109, 3521-3525.  | 6.6 | 63        |
| 115 | An electron spin resonance investigation of vanadium dioxide (51V16O <sub>2</sub> and 51V17O <sub>2</sub> ) and 51V17O in neon matrices with preliminary assignments for VO <sub>3</sub> and V <sup>+2</sup> : Comparison with ab initio theoretical calculations. <i>Journal of Chemical Physics</i> , 1996, 105, 10237-10250. | 1.2 | 63        |
| 116 | Theoretical intensities for the transitions of H <sub>2</sub> . A study of the Franck-Condon principle. <i>Journal of Molecular Spectroscopy</i> , 1967, 22, 1-17.  | 0.4 | 62        |
| 117 | Theory of the Hyperfine Splittings of Pi-Electron Free Radicals. II. Nonempirical Calculations of Methyl Radical (Planar). <i>Journal of Chemical Physics</i> , 1970, 52, 1740-1754.  | 1.2 | 62        |
| 118 | Natural Orbitals. <i>Advances in Quantum Chemistry</i> , 1972, 6, 235-266.  | 0.4 | 62        |
| 119 | Calculational Evidence for Lack of Intermediates in the Thermal Unimolecular Vinylcyclopropane to Cyclopentene 1,3-Sigmatropic Shift. <i>Journal of the American Chemical Society</i> , 1997, 119, 10543-10544.   | 6.6 | 62        |
| 120 | Potential surface for the methylenecyclopropane rearrangement. <i>Journal of the American Chemical Society</i> , 1982, 104, 967-972.  | 6.6 | 60        |
| 121 | Electron spin resonance investigations of 11B12C, 11B13C, and 10B12C in neon, argon, and krypton matrices at 4 K: Comparison with theoretical results. <i>Journal of Chemical Physics</i> , 1989, 90, 690-699.  | 1.2 | 60        |
| 122 | The Spatial Extent of the V State of Ethylene and Its Relation to Dynamic Correlation in the Cope Rearrangement. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6161-6166.   | 2.9 | 60        |
| 123 | Theoretical Study of the BeH Molecule. <i>Journal of Chemical Physics</i> , 1968, 49, 727-739.  | 1.2 | 59        |
| 124 | Thermal Rearrangements of Norcaradiene. <i>Journal of the American Chemical Society</i> , 1999, 121, 6928-6935.   | 6.6 | 59        |
| 125 | Structure of the exact wave function. II. Iterative configuration interaction method. <i>Journal of Chemical Physics</i> , 2001, 115, 2000-2006.  | 1.2 | 59        |
| 126 | Methanolysis and Phenolysis Routes to Fe <sub>6</sub> , Fe <sub>8</sub> , and Fe <sub>10</sub> Complexes and Their Magnetic Properties: A New Type of Fe <sub>8</sub> Ferric Wheel. <i>Inorganic Chemistry</i> , 2003, 42, 7819-7829.   | 1.9 | 59        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Ab initio calculation of the transition state for the Cope rearrangement. Journal of the American Chemical Society, 1984, 106, 3362-3363.   | 6.6 | 58        |
| 128 | Ab initio multireference CI determinations of the electron affinity of carbon and oxygen. Journal of Chemical Physics, 1985, 82, 4135-4141.   | 1.2 | 58        |
| 129 | The generation and trapping of the high-temperature oxosilyliumyl cation radicals (28SiO+ and Tj ETQq1 1 0.784314 rgBT /Overlock American Chemical Society, 1985, 107, 2857-2864.   | 6.6 | 58        |
| 130 | Single-Configuration Calculations on Excited States of Helium. Journal of Chemical Physics, 1964, 41, 656-658.  | 1.2 | 57        |
| 131 | Singlet Rydberg states of ethylene. Journal of Chemical Physics, 1977, 67, 5613-5618.   | 1.2 | 57        |
| 132 | Halogen atomic and diatomic hole states. Physical Review A, 1977, 16, 1341-1346.  | 1.0 | 57        |
| 133 | First Excited $\sigma_g^+$ State of H <sub>2</sub> . A Double-Well Minimum Problem. Journal of Chemical Physics, 1960, 33, 1577-1577.   | 1.2 | 55        |
| 134 | A theoretical study of the acetaldehyde-derived radical. Journal of the American Chemical Society, 1982, 104, 2956-2959.  | 6.6 | 55        |
| 135 | The Rayleigh-Schrödinger BK method applied to the lower electronic states of pyrrole. Chemical Physics Letters, 1983, 98, 424-427.  | 1.2 | 55        |
| 136 | Molecular properties of water. Chemical Physics Letters, 1984, 104, 54-58.  | 1.2 | 55        |
| 137 | The Cope rearrangement in theoretical retrospect. Computational and Theoretical Chemistry, 2001, 573, 81-89.  | 1.5 | 55        |
| 138 | An Ab Initio calculation of the spin dipole-dipole parameters for methylene. International Journal of Quantum Chemistry, 1973, 7, 759-777.  | 1.0 | 54        |
| 139 | Theoretical investigations of the electronic states of porphyrins. II. Normal and hyper phosphorus porphyrins. International Journal of Quantum Chemistry, 1984, 26, 251-274.       | 1.0 | 54        |
| 140 | Non-vertical excitation energies for low-lying singlet states of butadiene and hexatriene. Chemical Physics Letters, 1988, 148, 190-196.  | 1.2 | 54        |
| 141 | Use of double cosets in constructing integrals over symmetry orbitals. Journal of Chemical Physics, 1975, 62, 400.  | 1.2 | 53        |
| 142 | Polynuclear Manganese Complexes with the Dicarboxylate Ligand m-Phenylenedipropionate: A Hexanuclear Mixed-Valence (3MnIII, 3MnIV) Complex. Inorganic Chemistry, 2004, 43, 101-115. | 1.9 | 53        |
| 143 | Perturbation theory for multiconfiguration reference states. Chemical Physics Letters, 1978, 59, 369-374.   | 1.2 | 52        |
| 144 | Effect of carbon atom pyramidalization on the bonding in ethylene. Journal of the American Chemical Society, 1979, 101, 533-537.  | 6.6 | 52        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 145 | Dependence of the singlet-triplet splitting in heterosubstituted carbenes on the heteroatom electronegativity and conformation. <i>Chemical Physics Letters</i> , 1980, 71, 22-26.   | 1.2 | 52        |
| 146 | ESR and ab initio theoretical studies of the cation radicals $12C_2^{+16}O_2$ , $12,13C_2^{+16}O_2$ , $13C_2^{+16}O_2$ , $12C_2^{+16,17}O_2$ , $12C_2^{+17}O_2$ , and $12,13C_2^{+16,17}O_2$ isolated in neon matrices at 4 K. The use of matrix isolation for trapping ion-neutral reaction products. <i>Journal of Chemical Physics</i> , 1984, 80, 4593-4604. |     | 52        |
| 147 | Theoretical investigation of several low-lying states of trans, trans-1, 3,5-hexatriene. <i>The Journal of Physical Chemistry</i> , 1988, 92, 614-620.   | 2.9 | 52        |
| 148 | Electron correlation contribution to the hydrogen bond in hydrogen fluoride dimer. <i>The Journal of Physical Chemistry</i> , 1993, 97, 6367-6372.   | 2.9 | 52        |
| 149 | Local Spin III: Wave Function Analysis along a Reaction Coordinate, H Atom Abstraction, and Addition Processes of Benzynes. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6890-6896.   | 1.1 | 52        |
| 150 | High-density limit of the Perdew-Burke-Ernzerhof generalized gradient approximation and related density functionals. <i>Physical Review A</i> , 2006, 74, .  | 1.0 | 52        |
| 151 | Analysis of wave functions for open-shell molecules. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1881.   | 1.3 | 52        |
| 152 | Allylic resonance - when is it unimportant?. <i>Journal of the American Chemical Society</i> , 1984, 106, 2513-2519.   | 6.6 | 51        |
| 153 | Relativistic corrections for methylene. <i>Chemical Physics Letters</i> , 1980, 76, 416-417.   | 1.2 | 49        |
| 154 | The BK method: Application to methylene. <i>Journal of Chemical Physics</i> , 1981, 74, 5491-5496.   | 1.2 | 49        |
| 155 | ESR investigation of matrix isolated $B^{+16}O$ and $B^{+17}O$ radicals: Comparison of nuclear hyperfine structure with ab initio calculations. <i>Journal of Chemical Physics</i> , 1982, 76, 126-136.  | 1.2 | 49        |
| 156 | Carbene Complexes from Olefins, Using $RuHCl(PiPr_3)_2$ . Influence of the Olefin Substituent. <i>Journal of the American Chemical Society</i> , 1998, 120, 9388-9389.   | 6.6 | 49        |
| 157 | Necessary conditions for the N-representability of pair distribution functions. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 1487-1498.  | 1.0 | 49        |
| 158 | Hydrogen Molecule Excited States: I. <i>Journal of Chemical Physics</i> , 1966, 44, 730-737.   | 1.2 | 48        |
| 159 | Theoretical Study of the MgH Molecule. <i>Journal of Chemical Physics</i> , 1970, 52, 4108-4121.   | 1.2 | 48        |
| 160 | The potential surface for planar cyclopropenyl radical and anion. <i>Journal of Chemical Physics</i> , 1977, 67, 2191.   | 1.2 | 48        |
| 161 | Ab initio theory of the polarizability and polarizability derivatives in $H_2S$ . <i>Chemical Physics</i> , 1979, 38, 341-348.   | 0.9 | 48        |
| 162 | Semiempirical local spin: Theory and implementation of the ZILSH method for predicting Heisenberg exchange constants of polynuclear transition metal complexes. <i>International Journal of Quantum Chemistry</i> , 2003, 92, 294-325.   | 1.0 | 47        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Koopmans's Theorem in the Restricted Open-Shell Hartree-Fock Method. 1. A Variational Approach. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12386-12395.  | 1.1 | 47        |
| 164 | An ab initio study of formamide. <i>Theoretica Chimica Acta</i> , 1977, 44, 405-419.  | 0.9 | 46        |
| 165 | The singlet and triplet state rotational potential surfaces for dihydroxycarbene. <i>Journal of Chemical Physics</i> , 1979, 71, 4987.  | 1.2 | 46        |
| 166 | Hylleraas variational perturbation theory: Application to correlation problems in molecular systems. <i>Journal of Chemical Physics</i> , 1988, 88, 5770-5778.  | 1.2 | 46        |
| 167 | Theory of the Hyperfine Splittings of $\pi$ -Electron Free Radicals. III. Methyl Radical in a Pyramidal Configuration: Temperature Dependence of the Hyperfine Splittings. <i>Journal of Chemical Physics</i> , 1970, 52, 5596-5606.  | 1.2 | 45        |
| 168 | Dimerization paths of CH <sub>2</sub> and SiH <sub>2</sub> fragments to ethylene, disilene, and silaethylene: MCSCF and MRCI study of least- and non-least-motion paths. <i>Journal of the American Chemical Society</i> , 1985, 107, 3466-3471.  | 6.6 | 45        |
| 169 | Correlation states of ethylene. <i>Journal of Chemical Physics</i> , 1995, 102, 6385-6399.  | 1.2 | 45        |
| 170 | Ab initio calculations on urea. <i>International Journal of Quantum Chemistry</i> , 1974, 8, 857-892.   | 1.0 | 44        |
| 171 | Ab initio studies of the $3n\pi^*$ states of glyoxal and methyl glyoxal. <i>Chemical Physics Letters</i> , 1978, 58, 171-174.   | 1.2 | 44        |
| 172 | Molecular electron density distributions in position and momentum space. <i>The Journal of Physical Chemistry</i> , 1985, 89, 969-974.  | 2.9 | 44        |
| 173 | Spin polarization and annihilation for radicals and diradicals. <i>International Journal of Quantum Chemistry</i> , 2005, 103, 1-9.   | 1.0 | 44        |
| 174 | The potential surface for the cyclobutadiene radical cation. <i>Journal of the American Chemical Society</i> , 1981, 103, 5725-5729.  | 6.6 | 42        |
| 175 | Neon matrix ESR and CI theoretical investigation of AlF <sup>+</sup> ; photoionization of AlF from thermal and laser sputtering generation methods. <i>Journal of the American Chemical Society</i> , 1986, 108, 5065-5071.   | 6.6 | 42        |
| 176 | Ab initio calculation of some vertical excitation energies of N-methylacetamide. <i>Journal of the American Chemical Society</i> , 1978, 100, 7201-7204.  | 6.6 | 41        |
| 177 | Density functional theory calculations for F <sup>-</sup> . <i>Chemical Physics Letters</i> , 1999, 300, 44-52.   | 1.2 | 41        |
| 178 | A systematic approach to vertically excited states of ethylene using configuration interaction and coupled cluster techniques. <i>Journal of Chemical Physics</i> , 2014, 141, 104302.  | 1.2 | 41        |
| 179 | Electron spin resonance studies of <sup>45</sup> Sc <sup>17</sup> O, <sup>89</sup> Y <sup>17</sup> O, and <sup>139</sup> La <sup>17</sup> O in rare gas matrices: Comparison with ab initio electronic structure and nuclear hyperfine calculations. <i>Journal of Chemical Physics</i> , 1999, 110, 5658-5669. | 1.2 | 40        |
| 180 | Theoretical Study of Several Electronic States of the Hydrogen Fluoride Molecule. <i>Journal of Chemical Physics</i> , 1968, 49, 4989-4995.   | 1.2 | 39        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | Selection of Proper Canonical Orbitals. II. Water. <i>Journal of Chemical Physics</i> , 1972, 57, 2005-2008.   | 1.2 | 39        |
| 182 | A theoretical determination of the electron affinity of methylene. <i>Journal of Chemical Physics</i> , 1982, 77, 6134-6143.   | 1.2 | 39        |
| 183 | Vibrational spectroscopy of hydrogen cyanide clusters. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2913-2925.   | 2.9 | 39        |
| 184 | Electron spin resonance matrix isolation and ab initio theoretical investigations of $^{69,71}\text{GaH}_2$ , $^{69,71}\text{GaD}_2$ , $^{69,71}\text{GaCH}_3$ , and $^{69,71}\text{GaCD}_3$ . <i>Journal of Chemical Physics</i> , 1996, 105, 6607-6615.  | 1.2 | 39        |
| 185 | Correlation Energy Calculations and Unitary Transformations for LiH. <i>Journal of Chemical Physics</i> , 1968, 49, 465-466.   | 1.2 | 38        |
| 186 | Theoretical investigations of the electronic states of porphyrins. III. Low-lying electronic states of porphinatoiron(II). <i>International Journal of Quantum Chemistry</i> , 1985, 28, 773-796.  | 1.0 | 38        |
| 187 | Theoretical and electron spin resonance studies of the $\text{H}\hat{\alpha}\text{H}$ , $\text{H}\hat{\alpha}\text{D}$ , and $\text{D}\hat{\alpha}\text{D}$ spin-pair radicals in rare gas matrices: A case of extreme singlet-triplet mixing. <i>Journal of Chemical Physics</i> , 1998, 109, 1409-1424.  | 1.2 | 38        |
| 188 | Ab Initio Calculations of Excited-State Potential Surfaces of Polyatomic Molecules. , 1982, , 1-39.  |     | 38        |
| 189 | An ICSCF investigation of Walsh's rules. <i>Theoretica Chimica Acta</i> , 1973, 30, 283-314.   | 0.9 | 37        |
| 190 | Vertical excitation energy to the lowest $1.\pi.\pi^*$ state of acrolein. <i>Journal of the American Chemical Society</i> , 1979, 101, 6524-6526.  | 6.6 | 37        |
| 191 | An ab initio investigation of the stabilization of selected $\beta$ -substituted ethyl cations and $\alpha$ -substituted methyl cations. <i>Journal of the American Chemical Society</i> , 1988, 110, 6308-6314.   | 6.6 | 37        |
| 192 | A theoretical investigation of some low-lying electronic states of imidazole. <i>Journal of Chemical Physics</i> , 1992, 97, 1881-1891.  | 1.2 | 37        |
| 193 | Electron spin resonance matrix isolation studies of $^{27}\text{Al}^{16,17}\text{O}$ , $^{69,71}\text{Ga}^{16,17}\text{O}$ and $^{115}\text{In}^{16,17}\text{O}$ : Observed hyperfine interactions compared with ab initio theoretical results. <i>Journal of Chemical Physics</i> , 1997, 107, 7011-7019. | 1.2 | 37        |
| 194 | Ligand-Assisted Reduction of Osmium Tetroxide with Molecular Hydrogen via a [3+2] Mechanism. <i>Journal of the American Chemical Society</i> , 2005, 127, 3423-3432.   | 6.6 | 37        |
| 195 | Correlation Splitting in the Hydrogen Molecule. <i>Journal of Chemical Physics</i> , 1962, 37, 1918-1922.  | 1.2 | 36        |
| 196 | Correlation states in the valence XPS spectrum of ethylene. <i>Chemical Physics Letters</i> , 1977, 51, 237-241.   | 1.2 | 36        |
| 197 | The x-ray photoelectron spectrum of atomic sodium. <i>Journal of Chemical Physics</i> , 1978, 68, 5006-5009.   | 1.2 | 36        |
| 198 | Why is tetra-tert-butylcyclobutadiene almost square?. <i>Journal of the American Chemical Society</i> , 1980, 102, 7958-7960.  | 6.6 | 36        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 199 | Calculation of zero field splitting parameters for trimethylenemethane. Journal of Chemical Physics, 1981, 74, 2256-2259.  | 1.2 | 36        |
| 200 | Two new hexanuclear iron(iii) complexes with $S^{\wedge}= 5$ ground states. Dalton Transactions RSC, 2002, , 4005-4010.  | 2.3 | 36        |
| 201 | Basis Sets for Ab Initio Molecular Orbital Calculations and Intermolecular Interactions. Reviews in Computational Chemistry, 2007, , 1-43.   | 1.5 | 36        |
| 202 | Calculation of Natural Orbitals and Wavefunctions by Perturbation Theory. Journal of Chemical Physics, 1968, 48, 3169-3173.  | 1.2 | 35        |
| 203 | Matrix elements for spin-adapted configurations. International Journal of Quantum Chemistry, 1974, 8, 83-89.   | 1.0 | 35        |
| 204 | Energetics and electronic structure of chromium hexacarbonyl. The Journal of Physical Chemistry, 1992, 96, 2129-2141.  | 2.9 | 35        |
| 205 | Theoretical Interpretation of the Photoelectron Spectra of $Al_3O_2^-$ and $Al_3O_3^-$ . Journal of Physical Chemistry A, 1999, 103, 8985-8993.  | 1.1 | 35        |
| 206 | Model Studies of Hydrogen Atom Addition and Abstraction Processes Involving ortho-, meta-, and para-Benzynes. Journal of the American Chemical Society, 2001, 123, 10691-10698.          | 6.6 | 35        |
| 207 | The effective local potential method: Implementation for molecules and relation to approximate optimized effective potential techniques. Journal of Chemical Physics, 2007, 126, 084107. | 1.2 | 35        |
| 208 | A configuration interaction study of the ground state molecular properties of $NO_2$ . Journal of Chemical Physics, 1975, 63, 4672-4677.   | 1.2 | 34        |
| 209 | Ab initio study of the zero field splitting parameters of $3B_{1u}$ benzene. Journal of Chemical Physics, 1975, 63, 4800-4807.   | 1.2 | 34        |
| 210 | Ab initio study on the excitation energies of the protonated Schiff base of 11-cis-retinal. The Journal of Physical Chemistry, 1990, 94, 7013-7020.                                      | 2.9 | 34        |
| 211 | The reduced model space method in multireference second-order perturbation theory. Chemical Physics Letters, 1998, 296, 435-444.   | 1.2 | 34        |
| 212 | Model Molecular Magnets. Journal of Physical Chemistry A, 2002, 106, 7456-7461.  | 1.1 | 34        |
| 213 | Singlet-Triplet Energy Gaps for Diradicals from Particle-Particle Random Phase Approximation. Journal of Physical Chemistry A, 2015, 119, 4923-4932.                                     | 1.1 | 34        |
| 214 | Natural Expansions of Exact Wave Functions. I. Method. Journal of Chemical Physics, 1962, 37, 577-581.   | 1.2 | 33        |
| 215 | The potential surface for 1,3-dimethylenecyclobutadiene. Journal of the American Chemical Society, 1978, 100, 3299-3302.   | 6.6 | 33        |
| 216 | Energies of isoelectronic atomic ions from a successful metageneralized gradient approximation and other density functionals. Physical Review A, 2004, 70, .                             | 1.0 | 33        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 217 | Uncertainty Principle for Ensembles. <i>Physical Review A</i> , 1970, 1, 30-32.  | 1.0 | 32        |
| 218 | Error estimates for complex eigenvalues of dilated Schrödinger operators. <i>Physical Review A</i> , 1983, 28, 2641-2645.  | 1.0 | 32        |
| 219 | $\gamma$ -Silicon stabilization of carbonium ions. <i>Journal of the American Chemical Society</i> , 1986, 108, 3135-3137.   | 6.6 | 32        |
| 220 | A theoretical study of paths for decomposition and rearrangement of dihydroxycarbene. <i>Journal of Computational Chemistry</i> , 1980, 1, 158-166.  | 1.5 | 31        |
| 221 | Neon matrix ESR and CI theoretical investigation of $10\text{BF}^+$ and $11\text{BF}^+$ : Photoionization of BF from reactive laser sputtering and high temperature sources. <i>Journal of Chemical Physics</i> , 1986, 85, 5437-5445. | 1.2 | 31        |
| 222 | Theory and Mechanism of the Allylidencyclopropane-to-Methylenecyclopentene Thermal Isomerization. <i>Journal of the American Chemical Society</i> , 1995, 117, 8495-8501.  | 6.6 | 31        |
| 223 | A Comparison of the Influences of Alkoxide and Thiolate Ligands on the Electronic Structure and Reactivity of Molybdenum(3+) and Tungsten(3+) Complexes. Preparation and Structures of   |     |           |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 235 | Electronic Structure and Low-Lying Electronic States of Al <sub>3</sub> O and Al <sub>3</sub> O: Photoelectron Spectrum of Al <sub>3</sub> O. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2867-2872.  | 1.1 | 28        |
| 236 | A density functional method for degenerate spin-multiplet components. <i>Chemical Physics Letters</i> , 2001, 340, 142-150.   | 1.2 | 28        |
| 237 | Calculation of the Hyperfine Splittings of CH. Cusp Constraint of a Wavefunction. <i>Journal of Chemical Physics</i> , 1971, 54, 3005-3013.   | 1.2 | 27        |
| 238 | Unitary Transformations and Pair Energies. III. Relation to Perturbation Theory. <i>Journal of Chemical Physics</i> , 1972, 56, 4334-4336.  | 1.2 | 27        |
| 239 | Theoretical investigations of the electronic states of porphyrins. I. Basis set development and predicted spectrum of pyrrole. <i>International Journal of Quantum Chemistry</i> , 1984, 26, 237-250.   | 1.0 | 27        |
| 240 | Study of correlation states of acetylene by synchrotron photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1995, 103, 10537-10547.  | 1.2 | 27        |
| 241 | Electron momentum spectroscopy of H <sub>2</sub> and D <sub>2</sub> : Ionization to ground and excited final states. <i>Physical Review A</i> , 1997, 56, 1393-1402.  | 1.0 | 27        |
| 242 | Charge densities for singlet and triplet electron pairs. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 651-660.   | 1.0 | 27        |
| 243 | Electronic, Structural, and Hyperfine Interaction Investigations on Rydberg Molecules: NH <sub>4</sub> , OH <sub>3</sub> , and FH <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2001, 105, 10915-10921.   | 1.1 | 27        |
| 244 | p-Benzyne Derivatives That Have Exceptionally Small Singlet-Triplet Gaps and Even a Triplet Ground State. <i>Journal of Organic Chemistry</i> , 2003, 68, 3387-3396.  | 1.7 | 27        |
| 245 | Effect of through-bond interaction on terminal methylene rotation in the tetramethylene diradical. <i>Journal of the American Chemical Society</i> , 1980, 102, 5409-5410.  | 6.6 | 26        |
| 246 | Potential surfaces for (NH) <sub>3</sub> <sup>2+</sup> [triaziridenyl dication]. <i>Journal of the American Chemical Society</i> , 1980, 102, 5302-5311.  | 6.6 | 26        |
| 247 | Mapping between local potentials and ground state densities. <i>International Journal of Quantum Chemistry</i> , 1981, 19, 293-300.   | 1.0 | 26        |
| 248 | Porphyrins 42. Ground and excited state calculations on the isomers of free base porphine and sirohydrochlorin. <i>Theoretica Chimica Acta</i> , 1982, 61, 227-241.   | 0.9 | 26        |
| 249 | The generation of <sup>12</sup> C <sub>3</sub> IP and <sup>13</sup> C <sub>3</sub> IP by reactive laser vaporization for rare gas matrix electron spin resonance studies: Comparison with ab initio theoretical calculations. <i>Journal of Chemical Physics</i> , 1988, 88, 3441-3450. | 1.2 | 26        |
| 250 | Ground-state energies of isoelectronic atomic series from density-functional theory: Exploring the accuracy of density functionals. <i>Physical Review A</i> , 1998, 58, 1902-1909.   | 1.0 | 26        |
| 251 | ESR matrix isolation investigation of the aluminum hydride radical cation AlH <sup>+</sup> . <i>Journal of Chemical Physics</i> , 1979, 71, 3991-3995.  | 1.2 | 25        |
| 252 | Ab initio investigation of several low-lying states of all-trans octatetraene. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2173-2177.  | 2.9 | 25        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 253 | Potential surface symmetry and vibronic wave functions for methane cation. Journal of Chemical Physics, 1991, 95, 6551-6561.   | 1.2 | 25        |
| 254 | Electron spin resonance investigation of small magnesium cluster cation radicals, Mg+N, in neon and argon matrices at 4 K: Comparison with ab initio calculations. Journal of Chemical Physics, 1994, 100, 7867-7874.          | 1.2 | 25        |
| 255 | <sup>34</sup> S Isotope Effect on Sulfate Ester Hydrolysis: Mechanistic Implications. Journal of the American Chemical Society, 2003, 125, 13036-13037.  | 6.6 | 25        |
| 256 | Equivalence-restricted open-shell SCF theory. International Journal of Quantum Chemistry, 1974, 8, 707-714.  | 1.0 | 24        |
| 257 | Binding energy of chromium hexacarbonyl. 2. Revisited with correlation effects. The Journal of Physical Chemistry, 1993, 97, 4397-4403.  | 2.9 | 24        |
| 258 | Density functional calculations for Mg <sup>n+</sup> clusters. Journal of Chemical Physics, 1997, 106, 2331-2341.  | 1.2 | 24        |
| 259 | Does Unrestricted Møller-Plesset Perturbation Theory for Low Spin Converge When the System Has a Triplet Ground State?. Journal of Physical Chemistry A, 1998, 102, 4742-4746.   | 1.1 | 24        |
| 260 | New time-independent perturbation theory for the multireference problem. International Journal of Quantum Chemistry, 2002, 86, 256-264.  | 1.0 | 24        |
| 261 | The benzene radical anion: A computationally demanding prototype for aromatic anions. Journal of Chemical Physics, 2015, 142, 204304.  | 1.2 | 24        |
| 262 | Configuration interaction calculations for 1E <sup>g</sup> trimethylenemethane. Journal of Chemical Physics, 1976, 64, 663-666.  | 1.2 | 23        |
| 263 | Theoretical calculation of the photoelectron spectrum of ethylene. Chemical Physics Letters, 1992, 190, 231-235.   | 1.2 | 23        |
| 264 | Vibrations of S <sub>1</sub> (1B <sub>2u</sub> ) p-difluorobenzene-d <sub>4</sub> S <sub>1</sub> -S <sub>0</sub> fluorescence spectroscopy and ab initio calculations. The Journal of Physical Chemistry, 1993, 97, 5506-5518. | 2.9 | 23        |
| 265 | Use of the dicarboxylate ligand m-phenylenedipropionate for the synthesis of new Mn/O clusters. Synthesis, characterization and magnetic properties. Polyhedron, 2001, 20, 1375-1380.  | 1.0 | 23        |
| 266 | Linear inequalities for density matrices: III. International Journal of Quantum Chemistry, 2003, 91, 1-4.  | 1.0 | 23        |
| 267 | Linear Inequalities for Diagonal Elements of Density Matrices. Advances in Chemical Physics, 2007, , 443-483.  | 0.3 | 23        |
| 268 | Theory of the Proton Hyperfine Splittings of π-Electron Free Radicals. I. The CH Fragment. Journal of Chemical Physics, 1968, 49, 529-540.   | 1.2 | 22        |
| 269 | Ab Initio CI Calculations of the Energy Difference between Trimethylenemethane and Butadiene. Israel Journal of Chemistry, 1983, 23, 105-108.  | 1.0 | 22        |
| 270 | The Jahn-Teller distortion in SiH <sub>4</sub> . Journal of Chemical Physics, 1988, 89, 4227-4234.   | 1.2 | 22        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 271 | A theoretical study of hydridocobalt carbonyls. II. Interdependence of geometry and electronic structure. <i>Journal of Chemical Physics</i> , 1988, 88, 4967-4978.   | 1.2 | 22        |
| 272 | Momentum distributions, spin distributions, and bonding in methylamine and its radical cation. <i>Journal of the American Chemical Society</i> , 1992, 114, 6496-6504.  | 6.6 | 22        |
| 273 | Exactness of the General Two-Body Cluster Expansion in Many-Body Quantum Theory. <i>Physical Review Letters</i> , 2003, 91, 123001.   | 2.9 | 22        |
| 274 | Bonding in FHF?, (HF) <sub>2</sub> , and FHF. <i>International Journal of Quantum Chemistry</i> , 2004, 98, 317-324.  | 1.0 | 22        |
| 275 | Understanding Electron Correlation: Recent Progress in Molecular Synchrotron Photoelectron Spectroscopy. <i>Advances in Chemical Physics</i> , 2007, , 215-266.   | 0.3 | 22        |
| 276 | Koopmans's theorem in the restricted open-shell Hartree-Fock method. II. The second canonical set for orbitals and orbital energies. <i>Journal of Chemical Physics</i> , 2010, 132, .  | 1.2 | 22        |
| 277 | An ab initio calculation of the zero-field splitting parameters of the 3A <sup>2</sup> state of formaldehyde. <i>Journal of Chemical Physics</i> , 1980, 73, 865-869.   | 1.2 | 21        |
| 278 | A theoretical study of models for X <sub>2</sub> Y <sub>2</sub> Zintl ions. <i>Journal of the American Chemical Society</i> , 1989, 111, 8105-8111.   | 6.6 | 21        |
| 279 | High-resolution zero kinetic energy photoelectron spectra of para-propylaniline. <i>Journal of Chemical Physics</i> , 1994, 100, 5411-5421.   | 1.2 | 21        |
| 280 | Theoretical study of the adsorption of carbon monoxide on a NaCl (100) surface. <i>Surface Science</i> , 1995, 322, 342-360.  | 0.8 | 21        |
| 281 | [2.2.2]propellane rearrangements. <i>Chemical Physics Letters</i> , 1998, 284, 301-307.   | 1.2 | 21        |
| 282 | Enhanced second-order treatment of electron pair correlation. <i>International Journal of Quantum Chemistry</i> , 2000, 78, 226-236.  | 1.0 | 21        |
| 283 | Insights into the Metathesis Reaction Involving M≡M, C≡C, and M≡C Triple Bonds from Computations Employing Density Functional Theory on Model Compounds M <sub>2</sub> (OH) <sub>6</sub> and M <sub>2</sub> (SH) <sub>6</sub> , Where M = Mo and W. <i>Journal of the American Chemical Society</i> , 2002, 124, 15351-15358. | 6.6 | 21        |
| 284 | Comparison of $\hat{I}^{\pm}$ CH and CF activation in alkyl transition metal complexes: a DFT and CASSCF study. <i>Molecular Physics</i> , 2002, 100, 533-540.  | 0.8 | 21        |
| 285 | Canonical form of the Hartree-Fock orbitals in open-shell systems. <i>Journal of Chemical Physics</i> , 2014, 140, 014102.  | 1.2 | 21        |
| 286 | Nonrelativistic configuration interaction calculations for the ground state of the vanadium atom. <i>Journal of Chemical Physics</i> , 1975, 63, 980-985.   | 1.2 | 20        |
| 287 | Configuration interaction calculations on the propane radical cation, C <sub>3</sub> H <sub>8</sub> <sup>+</sup> . <i>Theoretica Chimica Acta</i> , 1990, 77, 111-122.  | 0.9 | 20        |
| 288 | Calculations on model systems using quasi-degenerate variational perturbation theory with an average pair correction. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 273-285.  | 1.0 | 20        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 289 | Electron momentum spectroscopy experiments and calculations for the production of excited states of He <sup>+</sup> and. Canadian Journal of Physics, 1996, 74, 748-756.  | 0.4 | 20        |
| 290 | Electron distributions in radicals. International Journal of Quantum Chemistry, 2000, 77, 316-323.  | 1.0 | 20        |
| 291 | Computational Studies of the Thermal Fragmentation of P-Arylphosphiranes: Have Arylphosphinidenes Been Generated by This Method?. Journal of the American Chemical Society, 2005, 127, 9886-9894.   | 6.6 | 20        |
| 292 | Self-consistent effective local potentials. Journal of Chemical Physics, 2007, 127, 084113.   | 1.2 | 20        |
| 293 | New bounds to resonance eigenvalues. Physical Review A, 1986, 33, 2436-2439.  | 1.0 | 19        |
| 294 | A theoretical study of the x-ray photoelectron ionization energies of related carbonyl compounds: formaldehyde, acetaldehyde, and acetone. The Journal of Physical Chemistry, 1992, 96, 10682-10687.  | 2.9 | 19        |
| 295 | Ground State Potential Energy of Diatomic Molecules. Journal of Chemical Physics, 1962, 36, 2527-2529.  | 1.2 | 18        |
| 296 | When is allylic resonance unimportant?. Journal of the American Chemical Society, 1983, 105, 3347-3348.   | 6.6 | 18        |
| 297 | Theoretical study of excitation energies of methaniminium cation, propeniminium cation, and propenimine. The Journal of Physical Chemistry, 1990, 94, 3944-3951.  | 2.9 | 18        |
| 298 | Potential Curves for H <sub>2</sub> <sup>+</sup> . Journal of Chemical Physics, 1962, 36, 1080-1081.  | 1.2 | 17        |
| 299 | On Derivations of the Uncertainty Principle. Journal of Chemical Physics, 1965, 42, 1461-1462.  | 1.2 | 17        |
| 300 | Chemical potential for harmonically interacting particles in a harmonic potential. International Journal of Quantum Chemistry, 1983, 23, 185-194.   | 1.0 | 17        |
| 301 | On electron correlation in NaCl <sub>2</sub> . International Journal of Quantum Chemistry, 1995, 54, 299-304.   | 1.0 | 17        |
| 302 | Electron spin resonance and theoretical studies of the <sup>14</sup> N and <sup>15</sup> N spin-pair radicals in neon matrices: The effects of mixing among the <sup>1</sup> Σ <sup>+</sup> , <sup>3</sup> Σ <sup>+</sup> , <sup>5</sup> Σ <sup>+</sup> , and <sup>7</sup> Σ <sup>+</sup> electronic states. Journal of Chemical Physics, 1999, 111, 3145-3154. | 1.2 | 17        |
| 303 | Fate of CH <sub>2</sub> CH(E) (E = H, OMe) in the Presence of Unsaturated Ru(X)(H)L <sub>2</sub> q <sup>+</sup> (X = Cl, q = 0; X = CO, q = 1): Highly Sensitive to X and E. Organometallics, 2000, 19, 2291-2298.  | 1.1 | 17        |
| 304 | Oxygen K hole photoionization cross section of CO <sub>2</sub> . Journal of Chemical Physics, 1982, 76, 6031-6036.  | 1.2 | 16        |
| 305 | On the proton field gradient of ice Ih. Chemical Physics Letters, 1984, 111, 7-10.  | 1.2 | 16        |
| 306 | Some aspects of the triplet di-π-methane rearrangement: comparison of the ring opening of cyclopropylidene and cyclopropylcarbinyl. Journal of the American Chemical Society, 1985, 107, 5054-5059.   | 6.6 | 16        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 307 | MULTI-REFERENCE PERTURBATION THEORY. Recent Advances in Computational, 1999, , 31-63.   | 0.8 | 16        |
| 308 | Application of Geminal Methods to Molecular Calculations. Physical Review, 1968, 174, 75-80.  | 2.7 | 15        |
| 309 | Mechanisms of spin transmission: Isotropic hyperfine interactions. Chemical Physics Letters, 1975, 33, 522-527.   | 1.2 | 15        |
| 310 | An experimental and theoretical study of the deuterium quadrupole coupling constants of glycine. Journal of Chemical Physics, 1985, 82, 3516-3526.  | 1.2 | 15        |
| 311 | N2 activation by iron-sulfur complexes. Theoretica Chimica Acta, 1995, 92, 315-326.   | 0.9 | 15        |
| 312 | Theoretical Study of the Electronic Spectrum and ESR of the CH2OH Radical. Journal of Physical Chemistry A, 2001, 105, 4558-4562.   | 1.1 | 15        |
| 313 | Ab initio calculation of the properties and the geometry of the lowest triplet state of pyrazine. The Journal of Physical Chemistry, 1982, 86, 1583-1588.   | 2.9 | 14        |
| 314 | Analysis of the bond energy of ScCO. Journal of Chemical Physics, 1989, 90, 5541-5554.  | 1.2 | 14        |
| 315 | The effect of the basis set superposition error on the geometry optimization of the p-DFBâ€“N2 complex. Chemical Physics Letters, 2002, 360, 99-103.  | 1.2 | 14        |
| 316 | Spin-state splittings, highest-occupied-molecular-orbital and lowest-unoccupied-molecular-orbital energies, and chemical hardness. Journal of Chemical Physics, 2010, 133, 164107.                              | 1.2 | 14        |
| 317 | The cyclic isomer of CO2. Journal of Chemical Physics, 1980, 73, 4517-4520.   | 1.2 | 13        |
| 318 | Theoretical study of concerted vs. stepwise fragmentation of 2-carbena-1,3-dioxolane. Journal of the American Chemical Society, 1981, 103, 2558-2560.   | 6.6 | 13        |
| 319 | Molecular properties from pseudo-wavefunctions. Chemical Physics Letters, 1981, 84, 9-12.   | 1.2 | 13        |
| 320 | Ab initio calculations of the relative energies of triplet 2,4-dimethylenecyclobutane-1,3-diyl and singlet 2,4-dimethylenebicyclo[1.1.0]butane. Journal of the American Chemical Society, 1982, 104, 1216-1218. | 6.6 | 13        |
| 321 | Ab initio calculations on the diphosphine radical cation (P2H4+.cntdot.). Journal of the American Chemical Society, 1985, 107, 2596-2597.   | 6.6 | 13        |
| 322 | AM1 studies on the potential energy surface for the proton transfer in protonated water clusters, H+(H2O)n. Journal of Computational Chemistry, 1989, 10, 163-175.  | 1.5 | 13        |
| 323 | Dependence of p-n-propylaniline ionization potential on molecular conformation: comparison of experiment with theory. Journal of the American Chemical Society, 1991, 113, 3202-3203.                           | 6.6 | 13        |
| 324 | One-electron properties of molecules calculated using second-order multireference perturbation theory. International Journal of Quantum Chemistry, 1995, 53, 149-160.   | 1.0 | 13        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 325 | ESR observation of the H $\alpha$ ... $\alpha$ ...H, H $\alpha$ ... $\alpha$ ...D, and D $\alpha$ ... $\alpha$ ...D spin-pair radicals in rare gas matrices. <i>Journal of Chemical Physics</i> , 1995, 103, 5275-5278. | 1.2 | 13        |
| 326 | Correlation states of propene. <i>Journal of Chemical Physics</i> , 1997, 107, 4295-4306.   | 1.2 | 13        |
| 327 | Comparison of Theoretical Calculations on Diatomic Molecules with Experiment. <i>Journal of Chemical Physics</i> , 1961, 34, 1240-1242.   | 1.2 | 12        |
| 328 | Integral dependent spin couplings in CI calculations. <i>Journal of Chemical Physics</i> , 1982, 76, 5385-5387.   | 1.2 | 12        |
| 329 | Frozen orbital effects in the computation of excitation energies of the iron atom. <i>International Journal of Quantum Chemistry</i> , 1984, 25, 483-491.   | 1.0 | 12        |
| 330 | Reply to comment on "A possible definition of basis set superposition error". <i>Chemical Physics Letters</i> , 1995, 241, 146-148.   | 1.2 | 12        |
| 331 | Kinetic and potential energy of isoelectronic atomic ions from density functional theory compared with exact values. <i>Molecular Physics</i> , 2000, 98, 1089-1097.  | 0.8 | 12        |
| 332 | Codeposition generation of BeCl in an argon matrix at 12 K: An ESR investigation. <i>Journal of Chemical Physics</i> , 1981, 74, 4256-4260.   | 1.2 | 11        |
| 333 | Interchange perturbation theory and phosphorescence: application to formaldehyde. <i>The Journal of Physical Chemistry</i> , 1982, 86, 3729-3733.   | 2.9 | 11        |
| 334 | Alkali-metal dihalide molecules. <i>The Journal of Physical Chemistry</i> , 1992, 96, 3683-3688.  | 2.9 | 11        |
| 335 | Trithiolatomolybdenum Nitrides, (RS) $_3$ Mo $\alpha$ N Where R =iPr andtBu, Preparation, Characterization and Comparisons with Related Trialkoxymolybdenumnitrides. <i>Inorganic Chemistry</i> , 2002, 41, 3437-3443.  | 1.9 | 11        |
| 336 | The Right Answer for the Right Reason: My Personal Goal for Quantum Chemistry. <i>Annual Review of Physical Chemistry</i> , 2019, 70, 1-20.   | 4.8 | 11        |
| 337 | Perspectives on Ab Initio Calculations. <i>Reviews in Computational Chemistry</i> , 0, , 373-382.   | 1.5 | 11        |
| 338 | Theoretical Approaches to ESR Spectroscopy. , 1991, , 429-455.  |     | 11        |
| 339 | AnL2calculation of the 1sand 2sphotoionization cross sections of Ne. <i>Journal of Chemical Physics</i> , 1979, 71, 2375-2380.  | 1.2 | 10        |
| 340 | Why is there a molecular relativistic effect?. <i>International Journal of Quantum Chemistry</i> , 1984, 26, 489-495.   | 1.0 | 10        |
| 341 | Some Perspectives on Quantum Calculations. <i>Israel Journal of Chemistry</i> , 1993, 33, 243-252.  | 1.0 | 10        |
| 342 | Theoretical study of the photoelectron spectra of gaseous Cu $_3$ Cl $_3$ . <i>Molecular Physics</i> , 2001, 99, 1329-1334.   | 0.8 | 10        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 343 | Approximate singly excited states from a two-component Hartree-Fock reference. <i>Journal of Chemical Physics</i> , 2015, 143, 144106.   | 1.2 | 10        |
| 344 | An SCF-stabilization approach to excited states embedded in the continuum. <i>Journal of Chemical Physics</i> , 1977, 67, 2178.  | 1.2 | 9         |
| 345 | On the electron affinity of glyoxal and methyl glyoxal. <i>Journal of Chemical Physics</i> , 1980, 72, 6808-6810.  | 1.2 | 9         |
| 346 | Many-body perturbation theory and phosphorescence: Application to CH <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1982, 76, 516-524.  | 1.2 | 9         |
| 347 | Comparison of ab initio and multipole determinations of the electrostatic interaction of acetamide dimers. <i>Computational and Theoretical Chemistry</i> , 1993, 282, 19-31.                        | 1.5 | 9         |
| 348 | Scaled quantum mechanical study of vibrational force field for p-difluorobenzene and p-fluorotoluene. <i>International Journal of Quantum Chemistry</i> , 1999, 72, 249-260.                         | 1.0 | 9         |
| 349 | Dimolybdenum Bis((S,S,S)-triisopropanolaminato(3-)): A Blue Compound with an Unusual Mo-Mo Triple Bond. <i>Inorganic Chemistry</i> , 2000, 39, 3544-3550.  | 1.9 | 9         |
| 350 | On the Calculation of Potentials from Densities. , 1984, , 33-42.  |     | 9         |
| 351 | Theory of the Hyperfine Splittings of $\pi$ -Electron Free Radicals. IV. Dipolar Hyperfine Tensors of Methyl Radical. <i>Journal of Chemical Physics</i> , 1971, 54, 4121-4123.                      | 1.2 | 8         |
| 352 | A possible relativistic contribution to the singlet-triplet separation in methylene. <i>Chemical Physics Letters</i> , 1980, 69, 201-202.  | 1.2 | 8         |
| 353 | Ab initio calculation of the zero-field splitting parameters of vinylmethylene. <i>The Journal of Physical Chemistry</i> , 1983, 87, 4833-4839.  | 2.9 | 8         |
| 354 | Ab initio Calculations on Excited Molecular Ions of Ethylene and Acetylene. <i>Australian Journal of Physics</i> , 1996, 49, 247.  | 0.6 | 8         |
| 355 | Theoretical and Spectroscopic Investigations of the Bonding and Reactivity of (RO) <sub>3</sub> M <sub>2</sub> N Molecules, where M = Cr, Mo, and W. <i>Inorganic Chemistry</i> , 2009, 48, 828-837. | 1.9 | 8         |
| 356 | An Algorithm for the Extreme Rays of a Pointed Convex Polyhedral Cone. <i>SIAM Journal on Computing</i> , 1973, 2, 281-293.  | 0.8 | 7         |
| 357 | The relativistic correction to the excitation energy of formaldehyde. <i>Chemical Physics Letters</i> , 1981, 78, 230-233.   | 1.2 | 7         |
| 358 | Calculations of zero-field splittings in pyridine derivatives. <i>Journal of Chemical Physics</i> , 1981, 75, 2603-2607.   | 1.2 | 7         |
| 359 | Dicyclopenta[ef,kl]heptalene (azupyrene) chemistry. Electrophilic monosubstitution. Theory and experiment. <i>Journal of the American Chemical Society</i> , 1985, 107, 1896-1899.                   | 6.6 | 7         |
| 360 | Corollary to density-functional theory. <i>Physical Review A</i> , 1990, 42, 2539-2541.  | 1.0 | 7         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 361 | Harmonic mode scrambling in p-difluorobenzene. <i>Chemical Physics Letters</i> , 1992, 197, 123-130.   | 1.2 | 7         |
| 362 | Could 2.2.2-Propellatriene Exist?. <i>Journal of the American Chemical Society</i> , 1997, 119, 1449-1449.   | 6.6 | 7         |
| 363 | Ab initio Compton maps of small molecules. <i>Molecular Physics</i> , 2001, 99, 175-186.   | 0.8 | 7         |
| 364 | Insights into the Schrock $\eta^5$ -chop-chop <sup>TM</sup> reaction gained from density functional theory and preparation and structure of $W_2(\eta^5\text{-PhCCPh})(\text{SC}_6\text{H}_4\text{-2-Me})_6$ . <i>Chemical Communications</i> , 2002, , 2770-2771.   | 2.2 | 7         |
| 365 | Non-Stern-Volmer Quenching of Si pDFB Fluorescence by O <sub>2</sub> and the Charge Transfer Complex. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3552-3558.   | 1.1 | 7         |
| 366 | Complete-active-space extended Koopmans theorem method. <i>Journal of Chemical Physics</i> , 2021, 155, 051102.  | 1.2 | 7         |
| 367 | Transition moment closure tests for ethylene. <i>International Journal of Quantum Chemistry</i> , 1978, 13, 161-168.   | 1.0 | 6         |
| 368 | The estimation of electron affinities from ab initio 1s orbital energies. <i>Theoretica Chimica Acta</i> , 1990, 78, 25-30.  | 0.9 | 6         |
| 369 | Alkali-metal dihalide molecules: electronic spectrum. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5882-5885.  | 2.9 | 6         |
| 370 | The ground state of ethylene. <i>Computational and Theoretical Chemistry</i> , 1997, 400, 169-176.   | 1.5 | 6         |
| 371 | Multiconfigurational self-consistent field study of the D <sub>2h</sub> dissociation of excited-state ethylene. <i>The Journal of Physical Chemistry</i> , 1983, 87, 2721-2722.  | 2.9 | 5         |
| 372 | Bonding in alkali metal homonuclear diatomics. <i>International Journal of Quantum Chemistry</i> , 1984, 25, 723-731.  | 1.0 | 5         |
| 373 | Calculations on Transition Metal Complexes. <i>ACS Symposium Series</i> , 1989, , 153-164.   | 0.5 | 5         |
| 374 | A TDDFT description of the low-energy excited states of copper and zinc metalloenediynes Electronic supplementary information (ESI) available: Cartesian coordinates of optimized structures and tables of the TDDFT configurations for each excited state. See <a href="http://www.rsc.org/suppdata/cc/b3/b308633j/">http://www.rsc.org/suppdata/cc/b3/b308633j/</a> . <i>Chemical Communications</i> , 2003, , 2876. | 2.2 | 5         |
| 375 | Size extensivity of the direct optimized effective potential method. <i>Journal of Chemical Physics</i> , 2008, 128, 114702.   | 1.2 | 5         |
| 376 | A theoretical study of the adiabatic and vertical ionization potentials of water. <i>Journal of Chemical Physics</i> , 2018, 148, 234308.  | 1.2 | 5         |
| 377 | MELD: A Many Electron Description. , 1991, , 381-433.  |     | 5         |
| 378 | A viewpoint on population analyses. <i>International Journal of Quantum Chemistry</i> , 2022, 122, .   | 1.0 | 5         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 379 | Theoretical investigations of the electronic states of porphyrins. IV. Low-lying electronic states of bisammineporphinatoiron(II). <i>International Journal of Quantum Chemistry</i> , 1985, 28, 797-822.   | 1.0 | 4         |
| 380 | Theoretical investigations of Fe porphyrins. V. Low-lying electronic states of bisammineporphinatoiron(III). <i>International Journal of Quantum Chemistry</i> , 1985, 28, 823-842.   | 1.0 | 4         |
| 381 | Configuration Interaction Wave Functions. <i>NATO ASI Series Series B: Physics</i> , 1994, , 105-131.   | 0.2 | 4         |
| 382 | Direct-Product Representation of Wavefunctions. <i>Journal of Chemical Physics</i> , 1962, 37, 1616-1619.   | 1.2 | 3         |
| 383 | A crystal field model for calculating Moessbauer quadrupole splittings of iron complexes. Application to pseudo-D3 and pseudo-D2h low-spin ferrous complexes. <i>Journal of the American Chemical Society</i> , 1976, 98, 5826-5832.  | 6.6 | 3         |
| 384 | Shellwise virial scaling: Approximation for atomic hole states. <i>International Journal of Quantum Chemistry</i> , 1980, 18, 1049-1055.  | 1.0 | 3         |
| 385 | Theory of the radiative lifetime of the 3B1 state of SO2. <i>Journal of Computational Chemistry</i> , 1983, 4, 337-344.   | 1.5 | 3         |
| 386 | Reassignment of the AlSi photoelectron spectrum by ab initio configuration interaction calculations. <i>Molecular Physics</i> , 1999, 96, 735-740.  | 0.8 | 3         |
| 387 | An investigation into the relative influence of alkoxide and thiolate ligands on the metal-carbon triple bond in X3M <sup>+</sup> CH compounds, where M=Cr, Mo and W and X=OH, SH, OCH3, SCH3, OCF3 and SCF3 from electronic structure calculations. <i>Polyhedron</i> , 2003, 22, 145-152. | 1.0 | 3         |
| 388 | Linear inequalities for density matrices: IV Factorizations. <i>Computational and Theoretical Chemistry</i> , 2013, 1003, 28-31.  | 1.1 | 3         |
| 389 | Atomic isotropic hyperfine properties for first row elements (B-F) revisited. <i>Journal of Chemical Physics</i> , 2022, 156, 034304.   | 1.2 | 3         |
| 390 | Can any information about reaction paths be obtained from the reduced mass?. <i>Computational and Theoretical Chemistry</i> , 1983, 103, 177-181.   | 1.5 | 2         |
| 391 | Ab initio calculations on XF <sub>n</sub> q (X = I, Xe, Cs, and Ba; n=1, 2, 4, and 6; q=?1, 0, +1, and +2) molecules. <i>International Journal of Quantum Chemistry</i> , 2001, 81, 238-245.  | 1.0 | 2         |
| 392 | Comment on "Combined open shell Hartree-Fock theory of atomic-molecular and nuclear systems". <i>J. Math. Chem.</i> 42 (2007) 177]. <i>Journal of Mathematical Chemistry</i> , 2009, 45, 859-866.   | 0.7 | 2         |
| 393 | Variational definitions of orbital energies. , 2012, , .  |     | 1         |
| 394 | Evaluation of a characteristic atomic radius by an ab initio method. , 1997, 62, 47.  |     | 1         |
| 395 | Charge densities for singlet and triplet electron pairs. , 2000, 77, 651.   |     | 1         |
| 396 | p-Benzyne Derivatives that Have Exceptionally Small Singlet-Triplet Gaps and Even a Triplet Ground State.. <i>ChemInform</i> , 2003, 34, no.  | 0.1 | 0         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 397 | Qualitatively significant effects of electron correlation. International Journal of Quantum Chemistry, 2009, 20, 65-68. | 1.0 | 0         |
| 398 | Charge and Spin Distributions. , 2006, , 1001-1001.   |     | 0         |
| 399 | Perturbation Theory of a Relativistic Particle in Central Fields. , 1983, , 501-521.                                    |     | 0         |