

# Anna I Krylov

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/855722/anna-i-krylov-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

259  
papers

18,506  
citations

67  
h-index

129  
g-index

278  
ext. papers

20,446  
ext. citations

5.6  
avg, IF

7.23  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 259 | Royal Society of Chemistry Provides Guidelines for Censorship to its Editors. <i>Chemistry International</i> , <b>2022</b> , 44, 32-34   | 1.6  | 1         |
| 258 | Scientists must resist cancel culture. <i>Nachrichten Aus Der Chemie</i> , <b>2022</b> , 70, 12-14   | 0.1  | 0         |
| 257 | Role of the Electron-Dipole Interaction in Photodetachment Angular Distributions. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10086-10092   | 6.4  | 2         |
| 256 | Equation-of-motion coupled-cluster method with double electron-attaching operators: Theory, implementation, and benchmarks. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 114115                                 | 3.9  | 9         |
| 255 | An assessment of different electronic structure approaches for modeling time-resolved x-ray absorption spectroscopy. <i>Structural Dynamics</i> , <b>2021</b> , 8, 024101  | 3.2  | 6         |
| 254 | Is Solid Copper Oxalate a Spin Chain or a Mixture of Entangled Spin Pairs?. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 7502-7510  | 3.8  | 4         |
| 253 | The orbital picture of the first dipole hyperpolarizability from many-body response theory. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 184109   | 3.9  | 1         |
| 252 | Equation-of-Motion Coupled-Cluster Protocol for Calculating Magnetic Properties: Theory and Applications to Single-Molecule Magnets. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 4225-4241       | 6.4  | 4         |
| 251 | The Peril of Politicizing Science. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5371-5376  | 6.4  | 3         |
| 250 | Photoelectron photofragment coincidence spectroscopy of aromatic carboxylates: benzoate and p-coumarate. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 18414-18424  | 3.6  | 3         |
| 249 | Interplay between Locally Excited and Charge Transfer States Governs the Photoswitching Mechanism in the Fluorescent Protein Dreiklang. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 757-770                | 3.4  | 5         |
| 248 | Feshbach-Fano approach for calculation of Auger decay rates using equation-of-motion coupled-cluster wave functions. I. Theory and implementation. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 084124          | 3.9  | 5         |
| 247 | Feshbach-Fano approach for calculation of Auger decay rates using equation-of-motion coupled-cluster wave functions. II. Numerical examples and benchmarks. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 084125 | 3.9  | 5         |
| 246 | Frontiers in Multiscale Modeling of Photoreceptor Proteins. <i>Photochemistry and Photobiology</i> , <b>2021</b> , 97, 243-269   | 3.6  | 8         |
| 245 | Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 084801   | 3.9  | 115       |
| 244 | X-ray transient absorption reveals the A ( $n\pi^*$ ) state of pyrazine in electronic relaxation. <i>Nature Communications</i> , <b>2021</b> , 12, 5003  | 17.4 | 11        |
| 243 | Calculation of spin-orbit couplings using RASCI spinless one-particle density matrices: Theory and applications. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 214107  | 3.9  | 12        |

|     |   |      |    |
|-----|---|------|----|
| 242 | Probing the Electronic Structure of Bulk Water at the Molecular Length Scale with Angle-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 5162-5170   | 6.4  | 14 |
| 241 | On the basis set selection for calculations of core-level states: different strategies to balance cost and accuracy. <i>Molecular Physics</i> , <b>2020</b> , 118, e1769872   | 1.7  | 21 |
| 240 | Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical. <i>Physical Review Letters</i> , <b>2020</b> , 124, 236001  | 7.4  | 18 |
| 239 | Effective Hamiltonians derived from equation-of-motion coupled-cluster wave functions: Theory and application to the Hubbard and Heisenberg Hamiltonians. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 094108  | 3.9  | 7  |
| 238 | Long-Range N-N Bonding by Rydberg Electrons. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2284-2290   | 4    | 4  |
| 237 | A simple molecular orbital picture of RIXS distilled from many-body damped response theory. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 244118  | 3.9  | 11 |
| 236 | Two Cycling Centers in One Molecule: Communication by Through-Bond Interactions and Entanglement of the Unpaired Electrons. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1297-1304  | 6.4  | 13 |
| 235 | Extension of frozen natural orbital approximation to open-shell references: Theory, implementation, and application to single-molecule magnets. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 034105  | 3.9  | 15 |
| 234 | The quest to uncover the nature of benzonitrile anion. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 5002-5010   | 3.6  | 4  |
| 233 | Observation of the fastest chemical processes in the radiolysis of water. <i>Science</i> , <b>2020</b> , 367, 179-182   | 33.3 | 74 |
| 232 | Spin-flip methods in quantum chemistry. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 4326-4342  | 3.6  | 61 |
| 231 | How to stay out of trouble in RIXS calculations within equation-of-motion coupled-cluster damped response theory? Safe hitchhiking in the excitation manifold by means of core-valence separation. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2629-2641 | 3.6  | 29 |
| 230 | Dyson orbitals within the fc-CVS-EOM-CCSD framework: theory and application to X-ray photoelectron spectroscopy of ground and excited states. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2693-2703  | 3.6  | 27 |
| 229 | Cherry-picking resolvents: A general strategy for convergent coupled-cluster damped response calculations of core-level spectra. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 141104   | 3.9  | 6  |
| 228 | Table-Top X-ray Spectroscopy of Benzene Radical Cation. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 9524-9531   | 17   |    |
| 227 | Toward Ultracold Organic Chemistry: Prospects of Laser Cooling Large Organic Molecules. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6670-6676  | 6.4  | 11 |
| 226 | Interplay of Open-Shell Spin-Coupling and Jahn-Teller Distortion in Benzene Radical Cation Probed by X-ray Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 9532-9541  | 2.8  | 19 |
| 225 | In search of molecular ions for optical cycling: a difficult road. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 17075-17090   | 3.6  | 10 |

|     |  |     |    |
|-----|--|-----|----|
| 224 | From orbitals to observables and back. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 080901  | 3.9 | 40 |
| 223 | Equation-of-Motion Coupled-Cluster Theory to Model L-Edge X-ray Absorption and Photoelectron Spectra. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8314-8321   | 6.4 | 23 |
| 222 | The elusive dynamics of aqueous permanganate photochemistry. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 10043-10055  | 3.6 | 4  |
| 221 | Towards a rational design of laser-coolable molecules: insights from equation-of-motion coupled-cluster calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 19447-19457   | 3.6 | 20 |
| 220 | Time-resolved near-edge X-ray absorption fine structure of pyrazine from electronic structure and nuclear wave packet dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 124114   | 3.9 | 23 |
| 219 | EOM-CC guide to Fock-space travel: the C edition. <i>Faraday Discussions</i> , <b>2019</b> , 217, 514-532  | 3.6 | 11 |
| 218 | Computational Challenges in Modeling of Representative Bioimaging Proteins: GFP-Like Proteins, Flavoproteins, and Phytochromes. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 6133-6149  | 3.4 | 25 |
| 217 | New and Efficient Equation-of-Motion Coupled-Cluster Framework for Core-Excited and Core-Ionized States. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 3117-3133   | 6.4 | 86 |
| 216 | To Be or Not To Be a Molecular Ion: The Role of the Solvent in Photoionization of Arginine. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1860-1865   | 6.4 | 4  |
| 215 | Quantitative El-Sayed Rules for Many-Body Wave Functions from Spinless Transition Density Matrices. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4857-4862   | 6.4 | 23 |
| 214 | Tribute to Hanna Reisler. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 6381-6383  | 2.8 |    |
| 213 | General framework for calculating spin-orbit couplings using spinless one-particle density matrices: Theory and application to the equation-of-motion coupled-cluster wave functions. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 034106 | 3.9 | 33 |
| 212 | Triplet Excitons in Small Helium Clusters. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 6113-6122   | 2.8 |    |
| 211 | Implementation of analytic gradients for CCSD and EOM-CCSD using Cholesky decomposition of the electron-repulsion integrals and their derivatives: Theory and benchmarks. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 014110             | 3.9 | 17 |
| 210 | Exotic systems: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 217, 601-622  | 3.6 |    |
| 209 | Modeling of the glycine tripeptide cyclization in the Ser65Gly/Tyr66Gly mutant of green fluorescent protein. <i>Mendeleev Communications</i> , <b>2019</b> , 29, 187-189   | 1.9 | 6  |
| 208 | Influence of the First Chromophore-Forming Residue on Photobleaching and Oxidative Photoconversion of EGFP and EYFP. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,  | 6.3 | 5  |
| 207 | Computational Modeling Reveals the Mechanism of Fluorescent State Recovery in the Reversibly Photoswitchable Protein Dreiklang. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 8901-8909  | 3.4 | 5  |

|     |  |      |    |
|-----|--|------|----|
| 206 | Spin-Forbidden Channels in Reactions of Unsaturated Hydrocarbons with O(P). <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 482-491  | 2.8  | 18 |
| 205 | Distinct Electron Conductance Regimes in Bacterial Decaheme Cytochromes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6805-6809  | 16.4 | 17 |
| 204 | Calculations of non-adiabatic couplings within equation-of-motion coupled-cluster framework: Theory, implementation, and validation against multi-reference methods. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 044103  | 3.9  | 26 |
| 203 | Singlet-triplet energy gaps and the degree of diradical character in binuclear copper molecular magnets characterized by spin-flip density functional theory. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 13127-13144   | 3.6  | 36 |
| 202 | Modeling Photoelectron Spectra of CuO, CuO, and CuO Anions with Equation-of-Motion Coupled-Cluster Methods: An Adventure in Fock Space. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 3653-3664  | 3.8  | 10 |
| 201 | Bound and continuum-embedded states of cyanopolyne anions. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4805-4817  | 3.6  | 18 |
| 200 | Characterizing Bonding Patterns in Diradicals and Triradicals by Density-Based Wave Function Analysis: A Uniform Approach. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 638-648   | 6.4  | 29 |
| 199 | Benchmarking Excited-State Calculations Using Exciton Properties. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 710-725  | 6.4  | 97 |
| 198 | Autocorrelation of electronic wave-functions: a new approach for describing the evolution of electronic structure in the course of dynamics. <i>Molecular Physics</i> , <b>2018</b> , 116, 2512-2523   | 1.7  | 1  |
| 197 | Pyridinium Analogues of Green Fluorescent Protein Chromophore: Fluorogenic Dyes with Large Solvent-Dependent Stokes Shift. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1958-1963   | 6.4  | 25 |
| 196 | Multiheme Cytochrome Mediated Redox Conduction through <i>Shewanella oneidensis</i> MR-1 Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10085-10089   | 16.4 | 48 |
| 195 | Real and Imaginary Excitons: Making Sense of Resonance Wave Functions by Using Reduced State and Transition Density Matrices. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4101-4108  | 6.4  | 16 |
| 194 | Linker-Dependent Singlet Fission in Tetracene Dimers. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10179-10190   | 16.4 | 90 |
| 193 | Vacuum ultraviolet photoionization cross section of the hydroxyl radical. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 184302   | 3.9  | 15 |
| 192 | Introduction: Theoretical Modeling of Excited State Processes. <i>Chemical Reviews</i> , <b>2018</b> , 118, 6925-6926  | 68.1 | 15 |
| 191 | A Combined Experimental and Theoretical Study on the Formation of Interstellar Propylene Oxide (CH <sub>3</sub> CHCH <sub>2</sub> O) A Chiral Molecule. <i>Astrophysical Journal</i> , <b>2018</b> , 860, 108  | 4.7  | 45 |
| 190 | An ab Initio Exploration of the Bergman Cyclization. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 420-430   | 2.8  | 10 |
| 189 | The effect of polarizable environment on two-photon absorption cross sections characterized by the equation-of-motion coupled-cluster singles and doubles method combined with the effective fragment potential approach. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 164109 | 3.9  | 14 |

|     |   |      |    |
|-----|---|------|----|
| 188 | Perspective: Computational chemistry software and its advancement as illustrated through three grand challenge cases for molecular science. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 180901  | 3.9  | 49 |
| 187 | Communication: The pole structure of the dynamical polarizability tensor in equation-of-motion coupled-cluster theory. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 141101   | 3.9  | 9  |
| 186 | Conversion of He(2 S) to He( a <sub>1</sub> ) in Liquid Helium. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6017-6023.  | 3.4  | 4  |
| 185 | Singlet Fission in Perylenediimide Dimers. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 25753-25763  | 3.8  | 41 |
| 184 | Distinct Electron Conductance Regimes in Bacterial Decaheme Cytochromes. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6921-6925  | 3.6  | 2  |
| 183 | Double Precision Is Not Needed for Many-Body Calculations: Emergent Conventional Wisdom. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 4088-4096  | 6.4  | 25 |
| 182 | Electronic Structure and Rydberg-Core Interactions in Hydroxycarbene and Methylhydroxycarbene. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 6176-6182  | 2.8  | 6  |
| 181 | A General Sparse Tensor Framework for Electronic Structure Theory. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 1108-1116  | 6.4  | 8  |
| 180 | Rewriting the Story of Excimer Formation in Liquid Benzene. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 1962-1975   | 2.8  | 22 |
| 179 | The Quantum Chemistry of Open-Shell Species. <i>Reviews in Computational Chemistry</i> , <b>2017</b> , 151-224  |      | 35 |
| 178 | Two-photon absorption spectroscopy of trans-stilbene, cis-stilbene, and phenanthrene: Theory and experiment. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 144305   | 3.9  | 16 |
| 177 | Two-photon absorption spectroscopy of stilbene and phenanthrene: Excited-state analysis and comparison with ethylene and toluene. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 174102  | 3.9  | 16 |
| 176 | Extending Quantum Chemistry of Bound States to Electronic Resonances. <i>Annual Review of Physical Chemistry</i> , <b>2017</b> , 68, 525-553  | 15.7 | 97 |
| 175 | Effect of the diradical character on static polarizabilities and two-photon absorption cross sections: A closer look with spin-flip equation-of-motion coupled-cluster singles and doubles method. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 224103 | 3.9  | 17 |
| 174 | Cross-scale efficient tensor contractions for coupled cluster computations through multiple programming model backends. <i>Journal of Parallel and Distributed Computing</i> , <b>2017</b> , 106, 92-105  | 4.4  | 5  |
| 173 | Photoelectron Spectroscopy Study of Quinonimides. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11138-11148  | 16.4 | 14 |
| 172 | Improving the Design of the Triple-Decker Motif in Red Fluorescent Proteins. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10602-10609  | 3.4  | 6  |
| 171 | Electronic Spectra of Tris(2,2'-bipyridine)-M(II) Complex Ions in Vacuo (M = Fe and Os). <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 7029-7037   | 5.1  | 12 |

|     |  |      |     |
|-----|--|------|-----|
| 170 | Coupled-cluster based approach for core-level states in condensed phase: Theory and application to different protonated forms of aqueous glycine. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 014107   | 3.9  | 31  |
| 169 | Visualizing the Contributions of Virtual States to Two-Photon Absorption Cross Sections by Natural Transition Orbitals of Response Transition Density Matrices. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3256-3265                        | 6.4  | 25  |
| 168 | Molecular Modeling Clarifies the Mechanism of Chromophore Maturation in the Green Fluorescent Protein. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10239-10249  | 16.4 | 31  |
| 167 | Photoinduced Chemistry in Fluorescent Proteins: Curse or Blessing?. <i>Chemical Reviews</i> , <b>2017</b> , 117, 758-788   | 38.1 | 154 |
| 166 | Channel branching ratios in CHCN photodetachment: Rotational structure and vibrational energy redistribution in autodetachment. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 234309   | 3.9  | 5   |
| 165 | Probing Electronic Wave Functions of Sodium-Doped Clusters: Dyson Orbitals, Anisotropy Parameters, and Ionization Cross-Sections. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 9841-9856  | 2.8  | 16  |
| 164 | Extension of the Effective Fragment Potential Method to Macromolecules. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 6562-74  | 3.4  | 65  |
| 163 | Turning On and Off Photoinduced Electron Transfer in Fluorescent Proteins by $\pi$ -Stacking, Halide Binding, and Tyr145 Mutations. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4807-17   | 16.4 | 44  |
| 162 | On couplings and excimers: lessons from studies of singlet fission in covalently linked tetracene dimers. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7751-61   | 3.6  | 81  |
| 161 | Singlet Fission in a Covalently Linked Cofacial Alkynyltetracene Dimer. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 617-27  | 16.4 | 204 |
| 160 | A study of interstellar aldehydes and enols as tracers of a cosmic ray-driven nonequilibrium synthesis of complex organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7727-32         | 11.5 | 77  |
| 159 | Reduced-cost sparsity-exploiting algorithm for solving coupled-cluster equations. <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 1059-67  | 3.5  | 5   |
| 158 | Quantifying local exciton, charge resonance, and multiexciton character in correlated wave functions of multichromophoric systems. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 014102  | 3.9  | 28  |
| 157 | Characterizing metastable states beyond energies and lifetimes: Dyson orbitals and transition dipole moments. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 054113   | 3.9  | 45  |
| 156 | Static polarizabilities for excited states within the spin-conserving and spin-flipping equation-of-motion coupled-cluster singles and doubles formalism: Theory, implementation, and benchmarks. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 204116 | 3.9  | 21  |
| 155 | Intra- and Intermolecular Singlet Fission in Covalently Linked Dimers. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 19070-19077   | 3.8  | 45  |
| 154 | Same but Different: Dipole-Stabilized Shape Resonances in CuF(-) and AgF(.). <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2786-93   | 6.4  | 43  |
| 153 | What Is the Price of Open-Source Software?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2751-4   | 6.4  | 8   |

|     |  |      |      |
|-----|--|------|------|
| 152 | A Light-Induced Reaction with Oxygen Leads to Chromophore Decomposition and Irreversible Photobleaching in GFP-Type Proteins. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 5444-52  | 3.4  | 23   |
| 151 | On the Nature of an Extended Stokes Shift in the mPlum Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 13052-62   | 3.4  | 24   |
| 150 | Photoelectron wave function in photoionization: plane wave or Coulomb wave?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 4532-40   | 6.4  | 97   |
| 149 | Two-photon absorption cross sections within equation-of-motion coupled-cluster formalism using resolution-of-the-identity and Cholesky decomposition representations: Theory, implementation, and benchmarks. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 064118 | 3.9  | 48   |
| 148 | Quantifying charge resonance and multiexciton character in coupled chromophores by charge and spin cumulant analysis. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 224104   | 3.9  | 40   |
| 147 | New algorithms for iterative matrix-free eigensolvers in quantum chemistry. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 273-84   | 3.5  | 34   |
| 146 | Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , <b>2015</b> , 113, 184-215   | 1.7  | 2068 |
| 145 | Spin-orbit couplings within the equation-of-motion coupled-cluster framework: Theory, implementation, and benchmark calculations. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 064102   | 3.9  | 68   |
| 144 | The effects of resonance delocalization and the extent of $\pi$ -system on ionization energies of model fluorescent proteins chromophores. <i>International Journal of Quantum Chemistry</i> , <b>2015</b> , 115, 1258-1264  | 2.1  | 7    |
| 143 | Ligand influence on the electronic spectra of monocationic copper-bipyridine complexes. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31938-46  | 3.6  | 29   |
| 142 | Measurement of heavy ion energy at the test facility of electronic components. <i>Instruments and Experimental Techniques</i> , <b>2014</b> , 57, 11-16  | 0.5  | 2    |
| 141 | Calculations predict a stable molecular crystal of N <sub>8</sub> . <i>Nature Chemistry</i> , <b>2014</b> , 6, 52-6  | 17.6 | 107  |
| 140 | A Fresh Look at Resonances and Complex Absorbing Potentials: Density Matrix-Based Approach. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 310-5  | 6.4  | 82   |
| 139 | Complex Absorbing Potential Equation-of-Motion Coupled-Cluster Method Yields Smooth and Internally Consistent Potential Energy Surfaces and Lifetimes for Molecular Resonances. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3078-85                      | 6.4  | 37   |
| 138 | Dissecting the Effect of Morphology on the Rates of Singlet Fission: Insights from Theory. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 19608-19617   | 3.8  | 72   |
| 137 | What we can learn from the norms of one-particle density matrices, and what we can't: some results for interstate properties in model singlet fission systems. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 11943-55  | 2.8  | 73   |
| 136 | Complex absorbing potentials within EOM-CC family of methods: theory, implementation, and benchmarks. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 024102   | 3.9  | 84   |
| 135 | A Simple Kinetic Model for Singlet Fission: A Role of Electronic and Entropic Contributions to Macroscopic Rates. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 5188-5195  | 3.8  | 103  |



|     |  |      |     |
|-----|--|------|-----|
| 134 | Shape of Multireference, Equation-of-Motion Coupled-Cluster, and Density Functional Theory Potential Energy Surfaces at a Conical Intersection. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 3074-84                                      | 6.4  | 132 |
| 133 | Chromophore photoreduction in red fluorescent proteins is responsible for bleaching and phototoxicity. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4527-34   | 3.4  | 50  |
| 132 | Analysis and tuning of libtensor framework on multicore architectures <b>2014</b> ,  |      | 5   |
| 131 | First-principles characterization of the energy landscape and optical spectra of green fluorescent protein along the A-kB proton transfer route. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 11541-94                                     | 16.4 | 55  |
| 130 | New implementation of high-level correlated methods using a general block tensor library for high-performance electronic structure calculations. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 2293-309  | 3.5  | 88  |
| 129 | Mapping the Excited State Potential Energy Surface of a Retinal Chromophore Model with Multireference and Equation-of-Motion Coupled-Cluster Methods. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4495-506                                | 6.4  | 76  |
| 128 | Proton transfer in nucleobases is mediated by water. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 6789-97   | 2.8  | 32  |
| 127 | Fission of Entangled Spins: An Electronic Structure Perspective. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3845-3852   | 6.4  | 162 |
| 126 | Photo-isomerization upshifts the pKa of the Photoactive Yellow Protein chromophore to contribute to photocycle propagation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2013</b> , 270, 43-52  | 4.7  | 13  |
| 125 | Complex-scaled equation-of-motion coupled-cluster method with single and double substitutions for autoionizing excited states: theory, implementation, and examples. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 124106                                | 3.9  | 55  |
| 124 | Effective fragment potential method in Q-CHEM: a guide for users and developers. <i>Journal of Computational Chemistry</i> , <b>2013</b> , 34, 1060-70   | 3.5  | 44  |
| 123 | Q-Chem: an engine for innovation. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2013</b> , 3, 317-326   | 7.9  | 257 |
| 122 | Toward organic photohydrides: excited-state behavior of 10-methyl-9-phenyl-9,10-dihydroacridine. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 15290-6   | 3.4  | 15  |
| 121 | Triple-Decker Motif for Red-Shifted Fluorescent Protein Mutants. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 1743-7  | 6.4  | 25  |
| 120 | On the photodetachment from the green fluorescent protein chromophore. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 11815-22  | 2.8  | 31  |
| 119 | Conical Intersection and Potential Energy Surface Features of a Model Retinal Chromophore: Comparison of EOM-CC and Multireference Methods. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 284-92  | 6.4  | 62  |
| 118 | General implementation of the resolution-of-the-identity and Cholesky representations of electron repulsion integrals within coupled-cluster and equation-of-motion methods: theory and benchmarks. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 134105 | 3.9  | 94  |
| 117 | Toward understanding the redox properties of model chromophores from the green fluorescent protein family: an interplay between conjugation, resonance stabilization, and solvent effects. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 12398-405   | 3.4  | 18  |

|     |   |      |     |
|-----|---|------|-----|
| 116 | Four Bases Score a Run: Ab Initio Calculations Quantify a Cooperative Effect of H-Bonding and $\pi$ -Stacking on the Ionization Energy of Adenine in the AATT Tetramer. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2726-32 | 6.4  | 35  |
| 115 | Electronic states of the benzene dimer: a simple case of complexity. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 653-62   | 2.8  | 40  |
| 114 | Ionization of dimethyluracil dimers leads to facile proton transfer in the absence of hydrogen bonds. <i>Nature Chemistry</i> , <b>2012</b> , 4, 323-9  | 17.6 | 62  |
| 113 | De-perturbative corrections for charge-stabilized double ionization potential equation-of-motion coupled-cluster method. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 244109   | 3.9  | 20  |
| 112 | Quantum chemistry behind bioimaging: insights from ab initio studies of fluorescent proteins and their chromophores. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 265-75  | 24.3 | 114 |
| 111 | Exploring structural and optical properties of fluorescent proteins by squeezing: modeling high-pressure effects on the mStrawberry and mCherry red fluorescent proteins. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 12426-40  | 3.4  | 26  |
| 110 | A VUV Photoionization and Ab Initio Determination of the Ionization Energy of a Gas-Phase Sugar (Deoxyribose). <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 97-101   | 6.4  | 38  |
| 109 | First-principle protocol for calculating ionization energies and redox potentials of solvated molecules and ions: theory and application to aqueous phenol and phenolate. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7269-80   | 3.4  | 84  |
| 108 | General formulation of spin-flip time-dependent density functional theory using non-collinear kernels: theory, implementation, and benchmarks. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 204103                                   | 3.9  | 163 |
| 107 | Insight into the common mechanism of the chromophore formation in the red fluorescent proteins: the elusive blue intermediate revealed. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2807-14                            | 16.4 | 36  |
| 106 | Toward Molecular-Level Characterization of Photoinduced Decarboxylation of the Green Fluorescent Protein: Accessibility of the Charge-Transfer States. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 1912-20             | 6.4  | 22  |
| 105 | Overtone-induced dissociation and isomerization dynamics of the hydroxymethyl radical (CH <sub>2</sub> OH and CD <sub>2</sub> OH). I. A theoretical study. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 084304                       | 3.9  | 24  |
| 104 | Effect of solvation on the vertical ionization energy of thymine: from microhydration to bulk. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 6028-38  | 2.8  | 84  |
| 103 | Electronic structure of the two isomers of the anionic form of p-coumaric acid chromophore. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 034310  | 3.9  | 46  |
| 102 | Non-Condon Effects in the One- and Two-Photon Absorption Spectra of the Green Fluorescent Protein. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 488-492  | 6.4  | 63  |
| 101 | Effect of protein environment on electronically excited and ionized states of the green fluorescent protein chromophore. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 8296-303   | 3.4  | 82  |
| 100 | The effect of microhydration on ionization energies of thymine. <i>Faraday Discussions</i> , <b>2011</b> , 150, 313-30; discussion 391-418  | 3.6  | 38  |
| 99  | Correction to What Drives the Redox Properties of Model Green Fluorescence Protein Chromophores?. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2695-2695   | 6.4  |     |

|    |   |     |    |
|----|---|-----|----|
| 98 | Spectroscopy and fragmentation of undercoordinated bromoiridates. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 13482-8   | 2.8 |    |
| 97 | What Drives the Redox Properties of Model Green Fluorescence Protein Chromophores?. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2593-2597   | 6.4 | 22 |
| 96 | Effect of microhydration on the electronic structure of the chromophores of the photoactive yellow and green fluorescent proteins. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 194304   | 3.9 | 28 |
| 95 | Using the charge-stabilization technique in the double ionization potential equation-of-motion calculations with dianion references. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 084109   | 3.9 | 46 |
| 94 | Frozen natural orbitals for ionized states within equation-of-motion coupled-cluster formalism. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 014109  | 3.9 | 85 |
| 93 | Spectroscopic signatures of proton transfer dynamics in the water dimer cation. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 194311  | 3.9 | 59 |
| 92 | The effect of oxidation on the electronic structure of the green fluorescent protein chromophore. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 115104  | 3.9 | 31 |
| 91 | Electronic structure and spectroscopy of nucleic acid bases: ionization energies, ionization-induced structural changes, and photoelectron spectra. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 12305-17                                    | 2.8 | 82 |
| 90 | Zooming into pi-stacked manifolds of nucleobases: ionized states of dimethylated uracil dimers. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 2001-9  | 2.8 | 17 |
| 89 | Electronic structure and spectroscopy of oxyallyl: a theoretical study. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 6935-43   | 2.8 | 27 |
| 88 | Ionization-Induced Structural Changes in Uracil Dimers and Their Spectroscopic Signatures. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 705-17  | 6.4 | 19 |
| 87 | Roaming Pathway Leading to Unexpected Water + Vinyl Products in C <sub>2</sub> H <sub>4</sub> OH Dissociation. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3058-3065  | 6.4 | 54 |
| 86 | Products of the benzene + O(3P) reaction. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 3355-70   | 2.8 | 75 |
| 85 | Potential Energy Landscape of the Electronic States of the GFP Chromophore in Different Protonation Forms: Electronic Transition Energies and Conical Intersections. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 2377-87           | 6.4 | 95 |
| 84 | Ionization of cytosine monomer and dimer studied by VUV photoionization and electronic structure calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2860-72   | 3.6 | 58 |
| 83 | Electronically excited and ionized states of the CH <sub>2</sub> CH <sub>2</sub> OH radical: a theoretical study. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 114308  | 3.9 | 7  |
| 82 | Noncovalent interactions in extended systems described by the effective fragment potential method: theory and application to nucleobase oligomers. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 12739-54                                     | 2.8 | 91 |
| 81 | The effect of pi-stacking, H-bonding, and electrostatic interactions on the ionization energies of nucleic acid bases: adenine-adenine, thymine-thymine and adenine-thymine dimers. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2292-307 | 3.6 | 83 |

|    |   |     |     |
|----|---|-----|-----|
| 80 | Quantum Chemistry Calculations Provide Support to the Mechanism of the Light-Induced Structural Changes in the Flavin-Binding Photoreceptor Proteins. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 2293-302   | 6.4 | 36  |
| 79 | Cross sections and photoelectron angular distributions in photodetachment from negative ions using equation-of-motion coupled-cluster Dyson orbitals. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 124114 <sup>3-9</sup>   | 3.9 | 150 |
| 78 | Perturbative triples correction for the equation-of-motion coupled-cluster wave functions with single and double substitutions for ionized states: Theory, implementation, and examples. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 114112                               | 3.9 | 47  |
| 77 | Double spin-flip approach within equation-of-motion coupled cluster and configuration interaction formalisms: Theory, implementation, and examples. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 044103  | 3.9 | 82  |
| 76 | A new electronic structure method for doublet states: configuration interaction in the space of ionized 1h and 2h1p determinants. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 124113  | 3.9 | 30  |
| 75 | Preface to the Robert Benny Gerber Festschrift. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 7161-7162   | 2.8 |     |
| 74 | Multiphoton ionization and dissociation of diazirine: a theoretical and experimental study. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 7412-21   | 2.8 | 13  |
| 73 | Ab initio calculation of the photoelectron spectra of the hydroxycarbene diradicals. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 7802-9   | 2.8 | 26  |
| 72 | Effect of a heteroatom on bonding patterns and triradical stabilization energies of 2,4,6-tridehydropyridine versus 1,3,5-tridehydrobenzene. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 2591 <sup>2-8</sup>  | 2.8 | 21  |
| 71 | Quantum Chemical Benchmark Studies of the Electronic Properties of the Green Fluorescent Protein Chromophore: 2. Cis-Trans Isomerization in Water. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 1907-14   | 6.4 | 42  |
| 70 | Quantum Chemical Benchmark Studies of the Electronic Properties of the Green Fluorescent Protein Chromophore. 1. Electronically Excited and Ionized States of the Anionic Chromophore in the Gas Phase. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 1895-906 | 6.4 | 104 |
| 69 | Degree of initial hole localization/delocalization in ionized water clusters. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 4423-9  | 2.8 | 34  |
| 68 | The effect of pi-stacking and H-bonding on ionization energies of a nucleobase: uracil dimer cation. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 1303-11   | 3.6 | 43  |
| 67 | Interacting Rydberg and valence states in radicals and molecules: experimental and theoretical studies. <i>International Reviews in Physical Chemistry</i> , <b>2009</b> , 28, 267-308  | 7   | 89  |
| 66 | On the electronically excited states of uracil. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 9983-92   | 2.8 | 101 |
| 65 | Electronic structure of the water dimer cation. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 6159-70   | 2.8 | 77  |
| 64 | Photodissociation dynamics of formaldehyde initiated at the T1/S0 minimum energy crossing configurations. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 13267-70  | 2.8 | 32  |
| 63 | Effect of hyperconjugation on ionization energies of hydroxyalkyl radicals. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 9965-9  | 2.8 | 13  |

|    |   |      |     |
|----|---|------|-----|
| 62 | Conical for stepwise, glancing for concerted: the role of the excited-state topology in the three-body dissociation of sym-triazine. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 12345-54   | 2.8  | 18  |
| 61 | The Role of excited-state topology in three-body dissociation of sym-triazine. <i>Science</i> , <b>2008</b> , 321, 826-3033,3   | 3.3  | 36  |
| 60 | Charge localization and Jahn-Teller distortions in the benzene dimer cation. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 074104   | 3.9  | 79  |
| 59 | A noniterative perturbative triples correction for the spin-flipping and spin-conserving equation-of-motion coupled-cluster methods with single and double substitutions. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 194105  | 3.9  | 126 |
| 58 | The theoretical prediction of infrared spectra of trans- and cis-hydroxycarbene calculated using full dimensional ab initio potential energy and dipole moment surfaces. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 204310   | 3.9  | 30  |
| 57 | Structure, vibrational frequencies, ionization energies, and photoelectron spectrum of the para-benzyne radical anion. <i>Theoretical Chemistry Accounts</i> , <b>2008</b> , 120, 45-58   | 1.9  | 21  |
| 56 | Equation-of-motion coupled-cluster methods for open-shell and electronically excited species: the Hitchhiker's guide to Fock space. <i>Annual Review of Physical Chemistry</i> , <b>2008</b> , 59, 433-62   | 15.7 | 709 |
| 55 | Theoretical and experimental investigations of the electronic Rydberg states of diazomethane: assignments and state interactions. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 4557-66   | 2.8  | 9   |
| 54 | The 1,2,3-tridehydrobenzene triradical: 2B or not 2B? The answer is 2A!. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 5071-80  | 2.8  | 31  |
| 53 | Vibronic structure and ion core interactions in Rydberg states of diazomethane: an experimental and theoretical investigation. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 13347-57   | 2.8  | 3   |
| 52 | Performance of the spin-flip and multireference methods for bond breaking in hydrocarbons: a benchmark study. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 13264-71  | 2.8  | 30  |
| 51 | Electronic structure of carbon trioxide and vibronic interactions involving Jahn-Teller states. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 8271-6  | 2.8  | 25  |
| 50 | Electronic structure of the benzene dimer cation. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 044317  | 3.9  | 56  |
| 49 | Benchmark full configuration interaction and equation-of-motion coupled-cluster model with single and double substitutions for ionized systems results for prototypical charge transfer systems: noncovalent ionized dimers. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 164110 | 3.9  | 81  |
| 48 | Dyson orbitals for ionization from the ground and electronically excited states within equation-of-motion coupled-cluster formalism: theory, implementation, and examples. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 234106   | 3.9  | 206 |
| 47 | Breaking the Curse of the Non-Dynamical Correlation Problem: The Spin-Flip Method. <i>ACS Symposium Series</i> , <b>2007</b> , 89-102   | 0.4  | 10  |
| 46 | Direct location of the minimum point on intersection seams of potential energy surfaces with equation-of-motion coupled-cluster methods. <i>Molecular Physics</i> , <b>2007</b> , 105, 2515-2525  | 1.7  | 19  |
| 45 | The photoelectron spectrum of elusive cyclic-N <sub>3</sub> and characterization of the potential energy surface and vibrational states of the ion. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 084306  | 3.9  | 29  |

|    |  |      |      |
|----|--|------|------|
| 44 | Conical and glancing Jahn-Teller intersections in the cyclic trinitrogen cation. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 224309  | 3.9  | 41   |
| 43 | Spin-flip equation-of-motion coupled-cluster electronic structure method for a description of excited states, bond breaking, diradicals, and triradicals. <i>Accounts of Chemical Research</i> , <b>2006</b> , 39, 83-91 | 24.3 | 249  |
| 42 | Photodissociation dynamics of the NO dimer. I. Theoretical overview of the ultraviolet singlet excited states. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 084301  | 3.9  | 27   |
| 41 | Femtosecond multidimensional imaging of a molecular dissociation. <i>Science</i> , <b>2006</b> , 311, 219-22   | 33.3 | 150  |
| 40 | Spectroscopy of the cyano radical in an aqueous environment. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 4854-65   | 2.8  | 18   |
| 39 | Efficient strategies for accurate calculations of electronic excitation and ionization energies: theory and application to the dehydro-m-xylene anion. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 291-8 | 2.8  | 14   |
| 38 | Beyond vinyl: electronic structure of unsaturated propen-1-yl, propen-2-yl, 1-buten-2-yl, and trans-2-buten-2-yl hydrocarbon radicals. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 2746-58               | 2.8  | 19   |
| 37 | Electronic structure of the two dehydro-meta-xylene triradicals and their derivatives. <i>Chemical Physics Letters</i> , <b>2006</b> , 425, 196-200  | 2.5  | 11   |
| 36 | Advances in methods and algorithms in a modern quantum chemistry program package. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 3172-91  | 3.6  | 2371 |
| 35 | Triradicals. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 10638-45  | 2.8  | 79   |
| 34 | The effect of substituents on electronic states ordering in meta-xylene diradicals: qualitative insights from quantitative studies. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 104304                       | 3.9  | 40   |
| 33 | Spin-conserving and spin-flipping equation-of-motion coupled-cluster method with triple excitations. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 084107  | 3.9  | 102  |
| 32 | Analytic gradients for the spin-conserving and spin-flipping equation-of-motion coupled-cluster models with single and double substitutions. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 224106              | 3.9  | 76   |
| 31 | 5-Dehydro-1,3-quinodimethane: a hydrocarbon with an open-shell doublet ground state. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 742-5  | 16.4 | 54   |
| 30 | Reactivity and structure of the 5-dehydro-m-xylene anion. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 5735-41  | 4.1  | 16   |
| 29 | Bonding Patterns in Benzene Triradicals from Structural, Spectroscopic, and Thermochemical Perspectives. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 6581-6588   | 2.8  | 65   |
| 28 | Equation-of-motion spin-flip coupled-cluster model with single and double substitutions: Theory and application to cyclobutadiene. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 175-85                        | 3.9  | 269  |
| 27 | The spinflip approach within time-dependent density functional theory: Theory and applications to diradicals. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 4807-4818  | 3.9  | 489  |

|    |  |     |     |
|----|--|-----|-----|
| 26 | Electronic structure of the trimethylenemethane diradical in its ground and electronically excited states: Bonding, equilibrium geometries, and vibrational frequencies. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 6874-6883 | 3.9 | 83  |
| 25 | Rydberg-valence interactions in CH <sub>2</sub> Cl-CH <sub>2</sub> +Cl photodissociation: Dependence of absorption probability on ground state vibrational excitation. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 9233-9240   | 3.9 | 14  |
| 24 | Electronic structure of the 1,3,5-tridehydrobenzene triradical in its ground and excited states. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 9614-9622   | 3.9 | 53  |
| 23 | Electronic structure of the $\sigma$ -bonded Al <sub>2</sub> H <sub>4</sub> complex: Characterization of the ground and low-lying excited states. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 10912-10918                      | 3.9 | 9   |
| 22 | A spin-complete version of the spin-flip approach to bond breaking: What is the impact of obtaining spin eigenfunctions?. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 9084-9094  | 3.9 | 133 |
| 21 | Electronic Structure of Halogen-Substituted Methyl Radicals: Equilibrium Geometries and Vibrational Spectra of CH <sub>2</sub> Cl and CH <sub>2</sub> F. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 5169-5176             | 2.8 | 14  |
| 20 | Perturbative corrections to the equation-of-motion spin-flip self-consistent field model: Application to bond-breaking and equilibrium properties of diradicals. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 3194-3203         | 3.9 | 180 |
| 19 | Singlet-triplet gaps in diradicals by the spin-flip approach: A benchmark study. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 4694-4708   | 3.9 | 294 |
| 18 | Size-consistent wave functions for bond-breaking: the equation-of-motion spin-flip model. <i>Chemical Physics Letters</i> , <b>2001</b> , 338, 375-384   | 2.5 | 393 |
| 17 | Spin-flip configuration interaction: an electronic structure model that is both variational and size-consistent. <i>Chemical Physics Letters</i> , <b>2001</b> , 350, 522-530  | 2.5 | 236 |
| 16 | Electronic structure of halogen-substituted methyl radicals: Excited states of CH <sub>2</sub> Cl and CH <sub>2</sub> F. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 7485-7494   | 3.9 | 17  |
| 15 | Small doped 3He clusters: A systematic quantum chemistry approach to fermionic nuclear wave functions and energies. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 10214  | 3.9 | 22  |
| 14 | Q-Chem 2.0: a high-performance ab initio electronic structure program package. <i>Journal of Computational Chemistry</i> , <b>2000</b> , 21, 1532-1548   | 3.5 | 588 |
| 13 | Second-order perturbation corrections to singles and doubles coupled-cluster methods: General theory and application to the valence optimized doubles model. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 3548-3560             | 3.9 | 151 |
| 12 | Spin-contamination of coupled-cluster wave functions. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 6052-6062  | 3.9 | 80  |
| 11 | Excited states theory for optimized orbitals and valence optimized orbitals coupled-cluster doubles models. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 6509-6527  | 3.9 | 122 |
| 10 | Q-Chem 2.0: a high-performance ab initio electronic structure program package <b>2000</b> , 21, 1532   |     | 2   |
| 9  | Photodissociation of HCl adsorbed on the surface of an Ar <sub>12</sub> cluster: Nonadiabatic molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 11047-11053  | 3.9 | 36  |

|   |   |     |     |
|---|---|-----|-----|
| 8 | Energies and analytic gradients for a coupled-cluster doubles model using variational Brueckner orbitals: Application to symmetry breaking in O <sub>4</sub> <sup>+</sup> . <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 4171-4181 | 3.9 | 216 |
| 7 | Size-consistent wave functions for nondynamical correlation energy: The valence active space optimized orbital coupled-cluster doubles model. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 10669-10678                             | 3.9 | 211 |
| 6 | Photodissociation dynamics of HCl in solid Ar: Cage exit, nonadiabatic transitions, and recombination. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 6574-6587  | 3.9 | 56  |
| 5 | Photodissociation, electronic relaxation and recombination of HCl in Ar <sub>n</sub> (HCl) clusters Non-adiabatic molecular dynamics simulations. <i>Faraday Discussions</i> , <b>1997</b> , 108, 243-254                                     | 3.6 | 35  |
| 4 | Spectroscopy, polarization and nonadiabatic dynamics of electronically excited Ba(Ar) <sub>n</sub> clusters: Theory and experiment. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 3651-3663   | 3.9 | 29  |
| 3 | Nonadiabatic dynamics and electronic energy relaxation of Cl(2P) atoms in solid Ar. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 4626-4635   | 3.9 | 47  |
| 2 | Photodissociation of ICN in solid and in liquid Ar: Dynamics of the cage effect and of excited-state isomerization. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 4242-4252   | 3.9 | 48  |
| 1 | The ezSpectra suite: An easy-to-use toolkit for spectroscopy modeling. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , e1546  | 7.9 | 21  |