

Density functionals that are one- and two- are not always self-interaction-free, as shown for H_2^+ , He_2^+ , LiH^+ , and

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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Computing Fukui functions without differentiating with respect to electron number. II. Calculation of condensed molecular Fukui functions. <i>Journal of Chemical Physics</i> , 2007, 126, 224108. | 1.2 | 58 |
| 2 | Modeling the adiabatic connection in H ₂ . <i>Journal of Chemical Physics</i> , 2007, 126, 244104. | 1.2 | 34 |
| 3 | Diminished gradient dependence of density functionals: Constraint satisfaction and self-interaction correction. <i>Journal of Chemical Physics</i> , 2007, 126, 244107. | 1.2 | 26 |
| 4 | Exchange and correlation in open systems of fluctuating electron number. <i>Physical Review A</i> , 2007, 76, . | 1.0 | 140 |
| 5 | Computing Fukui functions without differentiating with respect to electron number. I. Fundamentals. <i>Journal of Chemical Physics</i> , 2007, 126, 224107. | 1.2 | 61 |
| 6 | Tests of functionals for systems with fractional electron number. <i>Journal of Chemical Physics</i> , 2007, 126, 154109. | 1.2 | 559 |
| 7 | Resonating broken symmetry CI approach for ion-radical systems: Comparison with UHF, hybrid-DFT, and CASSCF-DFT. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2966-2977. | 1.0 | 8 |
| 8 | Optimal operators for Hartree-Fock exchange from long-range corrected hybrid density functionals. <i>Chemical Physics Letters</i> , 2008, 467, 176-178. | 1.2 | 68 |
| 9 | Orbital-dependent density functionals: Theory and applications. <i>Reviews of Modern Physics</i> , 2008, 80, 3-60. | 16.4 | 1,069 |
| 10 | Long-range corrected hybrid density functionals with damped atom-atom dispersion corrections. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6615. | 1.3 | 10,464 |
| 11 | Empirical Corrections to Density Functional Theory Highlight the Importance of Nonbonded Intramolecular Interactions in Alkanes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11495-11500. | 1.1 | 48 |
| 12 | Localization and Delocalization Errors in Density Functional Theory and Implications for Band-Gap Prediction. <i>Physical Review Letters</i> , 2008, 100, 146401. | 2.9 | 1,012 |
| 13 | Fractional charge perspective on the band gap in density-functional theory. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 491 |
| 14 | Discontinuity of the exchange-correlation potential: Support for assumptions used to find it. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 83 |
| 15 | Orbital energies and negative electron affinities from density functional theory: Insight from the integer discontinuity. <i>Journal of Chemical Physics</i> , 2008, 129, 044110. | 1.2 | 112 |
| 16 | Exact-exchange energy density in the gauge of a semilocal density-functional approximation. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 104 |
| 17 | Exploring the Limit of Accuracy of the Global Hybrid Meta Density Functional for Main-Group Thermochemistry, Kinetics, and Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1849-1868. | 2.3 | 956 |
| 18 | Insights into Current Limitations of Density Functional Theory. <i>Science</i> , 2008, 321, 792-794. | 6.0 | 2,057 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Systematic optimization of long-range corrected hybrid density functionals. <i>Journal of Chemical Physics</i> , 2008, 128, 084106. | 1.2 | 2,890 |
| 20 | A Density Functional Theory for Symmetric Radical Cations from Bonding to Dissociation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12789-12791. | 1.1 | 45 |
| 21 | Simple charge-transfer model to explain the electrical response of hydrogen chains. <i>Physical Review A</i> , 2008, 78, . | 1.0 | 20 |
| 22 | Towards a theoretical description of molecular junctions in the Coulomb blockade regime based on density functional theory. <i>Physical Review B</i> , 2008, 78, . | 1.1 | 21 |
| 23 | Ab Initio Molecular Dynamics Study of the Solvated $\text{OHCl}^{\cdot-}$ Complex: Implications for the Atmospheric Oxidation of Chloride Anion to Molecular Chlorine. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4644-4650. | 1.1 | 22 |
| 24 | Dynamical Optimization for Partition Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 571-575. | 1.1 | 2 |
| 25 | Density functional with full exact exchange, balanced nonlocality of correlation, and constraint satisfaction. <i>Physical Review A</i> , 2008, 78, . | 1.0 | 221 |
| 26 | Optimized effective potentials from arbitrary basis sets. <i>Journal of Chemical Physics</i> , 2008, 129, 194102. | 1.2 | 39 |
| 27 | Self-interaction correction and the optimized effective potential. <i>Journal of Chemical Physics</i> , 2008, 129, 014110. | 1.2 | 72 |
| 28 | The energy-differences based exact criterion for testing approximations to the functional for the kinetic energy of non-interacting electrons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 055302. | 0.7 | 33 |
| 29 | Size extensivity of the direct optimized effective potential method. <i>Journal of Chemical Physics</i> , 2008, 128, 114702. | 1.2 | 5 |
| 30 | Self-interaction correction with Wannier functions. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 33 |
| 31 | Understanding and correcting the self-interaction error in the electrical response of hydrogen chains. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 52 |
| 32 | Configuration mixing within the energy density functional formalism: Removing spurious contributions from nondiagonal energy kernels. <i>Physical Review C</i> , 2009, 79, . | 1.1 | 120 |
| 33 | Reverse engineering in many-body quantum physics: Correspondence between many-body systems and effective single-particle equations. <i>Physical Review A</i> , 2009, 79, . | 1.0 | 17 |
| 34 | Comment on "Functional derivative of the universal density functional in Fock space". <i>Physical Review A</i> , 2009, 79, . | 1.0 | 17 |
| 36 | Constrained density functional theory based configuration interaction improves the prediction of reaction barrier heights. <i>Journal of Chemical Physics</i> , 2009, 130, 034109. | 1.2 | 79 |
| 37 | The self-interaction error and the description of non-dynamic electron correlation in density functional theory. <i>Theoretical Chemistry Accounts</i> , 2009, 123, 171-182. | 0.5 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 38 | Resonating coupled-cluster CI approach to ion-radical systems: Comparison with the unrestricted coupled-cluster approach. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3811-3818. | 1.0 | 7 |
| 39 | A resonating broken-symmetry CI study of cationic states of phenalenyl dimeric compounds. <i>Polyhedron</i> , 2009, 28, 1628-1633. | 1.0 | 4 |
| 40 | The exchange energy of a uniform electron gas experiencing a new, flexible range separation. <i>Chemical Physics Letters</i> , 2009, 478, 283-286. | 1.2 | 9 |
| 41 | Electronic Hyperpolarizabilities for Donor-Acceptor Molecules with Long Conjugated Bridges: Calculations versus Experiment. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10994-11001. | 1.1 | 129 |
| 42 | Deleterious Effects of Long-Range Self-Repulsion on the Density Functional Description of O_2 Sticking on Aluminum. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7521-7527. | 1.1 | 27 |
| 43 | DFT Calculations on Charge-Transfer States of a Carotenoid-Porphyrin- C_{60} Molecular Triad. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 834-843. | 2.3 | 62 |
| 44 | Evaluation of Range-Separated Hybrid and Other Density Functional Approaches on Test Sets Relevant for Transition Metal-Based Homogeneous Catalysts. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11742-11749. | 1.1 | 50 |
| 45 | Some Fundamental Issues in Ground-State Density Functional Theory: A Guide for the Perplexed. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 902-908. | 2.3 | 306 |
| 46 | The calculation of adiabatic-connection curves from full configuration-interaction densities: Two-electron systems. <i>Journal of Chemical Physics</i> , 2009, 130, 104111. | 1.2 | 64 |
| 47 | Long-range corrected double-hybrid density functionals. <i>Journal of Chemical Physics</i> , 2009, 131, 174105. | 1.2 | 327 |
| 48 | Particle-number restoration within the energy density functional formalism. <i>Physical Review C</i> , 2009, 79, . | 1.1 | 118 |
| 49 | A resonating broken symmetry configuration interaction approach for double-exchange magnetic systems. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 064227. | 0.7 | 8 |
| 50 | Koopmans's springs to life. <i>Journal of Chemical Physics</i> , 2009, 131, 231101. | 1.2 | 184 |
| 51 | An improved long-range corrected hybrid functional with vanishing Hartree-Fock exchange at zero interelectronic distance (LC2gau-BOP). <i>Journal of Chemical Physics</i> , 2009, 131, 144108. | 1.2 | 45 |
| 52 | Chemical Reactivity Descriptors for Ambiphilic Reagents: Dual Descriptor, Local Hypersoftness, and Electrostatic Potential. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8660-8667. | 1.1 | 166 |
| 53 | Second-Order Perturbation Theory with Fractional Charges and Fractional Spins. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 786-792. | 2.3 | 61 |
| 54 | Assessment of a density functional with full exact exchange and balanced non-locality of correlation. <i>Molecular Physics</i> , 2009, 107, 1077-1088. | 0.8 | 17 |
| 55 | Physical signatures of discontinuities of the time-dependent exchange-correlation potential. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4647. | 1.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 56 | Reaction Enthalpies Using the Neural-Network-Based X1 Approach: The Important Choice of Input Descriptors. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3285-3290. | 1.1 | 19 |
| 57 | Overcoming systematic DFT errors for hydrocarbon reaction energies. <i>Theoretical Chemistry Accounts</i> , 2010, 127, 429-442. | 0.5 | 51 |
| 58 | Fourteen easy lessons in density functional theory. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2801-2807. | 1.0 | 41 |
| 59 | Dimensionality dependence of the self-interaction correction in the local-density approximation to density functional theory. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 3 |
| 60 | Hybrid functionals including random phase approximation correlation and second-order screened exchange. <i>Journal of Chemical Physics</i> , 2010, 132, 094103. | 1.2 | 131 |
| 61 | Subsystem constraints in variational second order density matrix optimization: Curing the dissociative behavior. <i>Journal of Chemical Physics</i> , 2010, 132, 114113. | 1.2 | 41 |
| 62 | Many-electron self-interaction and spin polarization errors in local hybrid density functionals. <i>Journal of Chemical Physics</i> , 2010, 133, 134116. | 1.2 | 83 |
| 63 | Global Hybrid Functionals: A Look at the Engine under the Hood. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3688-3703. | 2.3 | 87 |
| 64 | A General Database for Main Group Thermochemistry, Kinetics, and Noncovalent Interactions $\hat{\wedge}$ Assessment of Common and Reparameterized (<i>meta</i> -)GGA Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 107-126. | 2.3 | 389 |
| 65 | Magnetizabilities at Self-Interaction-Corrected Density Functional Theory Level. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3302-3311. | 2.3 | 10 |
| 66 | Tuned Range-Separated Hybrids in Density Functional Theory. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 85-109. | 4.8 | 661 |
| 67 | Density Functional Theory of Electronic Structure: A Short Course for Mineralogists and Geophysicists. <i>Reviews in Mineralogy and Geochemistry</i> , 2010, 71, 1-18. | 2.2 | 16 |
| 68 | Koopmans's condition for density-functional theory. <i>Physical Review B</i> , 2010, 82, . | 1.1 | 206 |
| 69 | The RPA Atomization Energy Puzzle. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 127-134. | 2.3 | 76 |
| 70 | TD-CI Simulation of the Electronic Optical Response of Molecules in Intense Fields II: Comparison of DFT Functionals and EOM-CCSD. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11832-11840. | 1.1 | 42 |
| 71 | Reactivity indicators for degenerate states in the density-functional theoretic chemical reactivity theory. <i>Journal of Chemical Physics</i> , 2011, 134, 174103. | 1.2 | 74 |
| 72 | Electronic hole transfer in rutile and anatase TiO ₂ : Effect of a delocalization error in the density functional theory on the charge transfer barrier height. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 14 |
| 75 | Accurate Dispersion-Corrected Density Functionals for General Chemistry Applications. , 2011, , 1-16. | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 76 | Evaluating the Performance of DFT Functionals in Assessing the Interaction Energy and Ground-State Charge Transfer of Donor/Acceptor Complexes: Tetrathiafulvalene-Tetracyanoquinodimethane (TTF-tTCNQ) as a Model Case. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 602-609. | 2.3 | 143 |
| 77 | A Density Functional Theory for Studying Ionization Processes in Water Clusters. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5735-5744. | 1.1 | 51 |
| 78 | Comparative study of hybrid functionals applied to structural and electronic properties of semiconductors and insulators. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 67 |
| 79 | Benchmark results for empirical post-GGA functionals: Difficult exchange problems and independent tests. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19325. | 1.3 | 83 |
| 80 | A thorough benchmark of density functional methods for general main group thermochemistry, kinetics, and noncovalent interactions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6670. | 1.3 | 1,627 |
| 81 | Dispersion, static correlation, and delocalisation errors in density functional theory: An electrostatic theorem perspective. <i>Journal of Chemical Physics</i> , 2011, 135, 164110. | 1.2 | 10 |
| 82 | Density Functional Theory for Reaction Energies: Test of Meta and Hybrid Meta Functionals, Range-Separated Functionals, and Other High-Performance Functionals. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 669-676. | 2.3 | 190 |
| 83 | Twelve outstanding problems in ground-state density functional theory: A bouquet of puzzles. <i>Computational and Theoretical Chemistry</i> , 2011, 963, 2-6. | 1.1 | 43 |
| 84 | Non-empirical improvement of PBE and its hybrid PBE0 for general description of molecular properties. <i>Journal of Chemical Physics</i> , 2012, 136, 104108. | 1.2 | 78 |
| 85 | Long-range corrected hybrid meta-generalized-gradient approximations with dispersion corrections. <i>Journal of Chemical Physics</i> , 2012, 136, 154109. | 1.2 | 101 |
| 86 | Importance of the correlation contribution for local hybrid functionals: Range separation and self-interaction corrections. <i>Journal of Chemical Physics</i> , 2012, 136, 014111. | 1.2 | 83 |
| 87 | Using complex degrees of freedom in the Kohn-Sham self-interaction correction. <i>Physical Review A</i> , 2012, 85, . | 1.0 | 50 |
| 88 | Delocalization error of density-functional approximations: A distinct manifestation in hydrogen molecular chains. <i>Journal of Chemical Physics</i> , 2012, 137, 214106. | 1.2 | 66 |
| 89 | ELEMENTAL AND MIXED ACTINIDE DIOXIDES: AN AB INITIO STUDY. <i>Journal of Theoretical and Computational Chemistry</i> , 2012, 11, 611-629. | 1.8 | 11 |
| 90 | Oxidative trends of TiO ₂ hole trapping at anatase and rutile surfaces. <i>Energy and Environmental Science</i> , 2012, 5, 9866. | 15.6 | 41 |
| 91 | Curvature and Frontier Orbital Energies in Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3740-3744. | 2.1 | 145 |
| 92 | Attenuating Away the Errors in Inter- and Intramolecular Interactions from Second-Order Møller-Plesset Calculations in the Small Aug-cc-pVDZ Basis Set. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3592-3598. | 2.1 | 34 |
| 93 | Self-interaction correction scheme for approximate Kohn-Sham potentials. <i>Physical Review A</i> , 2012, 86, . | 1.0 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 94 | Self-interaction correction to GW approximation. <i>Physica Scripta</i> , 2012, 86, 065301. | 1.2 | 4 |
| 95 | Symmetric Nonlocal Weighted Density Approximations from the Exchange-Correlation Hole of the Uniform Electron Gas. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4081-4093. | 2.3 | 22 |
| 96 | Magnetic Exchange Couplings from Semilocal Functionals Evaluated Nonself-Consistently on Hybrid Densities: Insights on Relative Importance of Exchange, Correlation, and Delocalization. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3147-3158. | 2.3 | 34 |
| 97 | Constrained Density Functional Theory. <i>Chemical Reviews</i> , 2012, 112, 321-370. | 23.0 | 454 |
| 98 | Comparison of the performance of exact-exchange-based density functional methods. <i>Journal of Chemical Physics</i> , 2012, 137, 114104. | 1.2 | 33 |
| 99 | Derivative discontinuity, bandgap and lowest unoccupied molecular orbital in density functional theory. <i>Journal of Chemical Physics</i> , 2012, 136, 204111. | 1.2 | 154 |
| 100 | Exploring the Limits of Density Functional Approximations for Interaction Energies of Molecular Precursors to Organic Electronics. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4305-4316. | 2.3 | 38 |
| 101 | Switchable Nonlinear Optical Properties of $\text{I}^{\text{V}}\text{-Monocyclopentadienylmetal}$ Complexes: A DFT Approach. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 1970-1983. | 2.5 | 20 |
| 102 | The benchmark of Gutzwiller density functional theory in hydrogen systems. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 240-246. | 1.0 | 5 |
| 103 | Excitation Gaps of Finite-Sized Systems from Optimally Tuned Range-Separated Hybrid Functionals. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1515-1531. | 2.3 | 765 |
| 104 | Challenges for Density Functional Theory. <i>Chemical Reviews</i> , 2012, 112, 289-320. | 23.0 | 1,869 |
| 105 | Calculation of dispersion energies. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 073201. | 0.7 | 187 |
| 106 | A variational principle for the electron density using the exchange hole & its implications for N-representability. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 839-844. | 0.9 | 6 |
| 108 | Density Functionals that Recognize Covalent, Metallic, and Weak Bonds. <i>Physical Review Letters</i> , 2013, 111, 106401. | 2.9 | 168 |
| 109 | Theoretical Toolkits for Inorganic and Bioinorganic Complexes: Their Applications and Insights. , 2013, 1-57. | | 1 |
| 110 | Performance of meta-GGA Functionals on General Main Group Thermochemistry, Kinetics, and Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 355-363. | 2.3 | 68 |
| 111 | Long-Range Corrected Hybrid Density Functionals with Improved Dispersion Corrections. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 263-272. | 2.3 | 535 |
| 112 | Long-range corrected functionals satisfy Koopmans' theorem: Calculation of correlation and relaxation energies. <i>Journal of Computational Chemistry</i> , 2013, 34, 958-964. | 1.5 | 65 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 113 | Assessment of density functional methods with correct asymptotic behavior. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8352. | 1.3 | 49 |
| 114 | H Atom Adsorption on a Silicate Surface: The (010) Surface of Forsterite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12612-12621. | 1.5 | 27 |
| 115 | The Performance of Density Functionals for Sulfateâ€“Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1368-1380. | 2.3 | 69 |
| 116 | Assessment of Tuning Methods for Enforcing Approximate Energy Linearity in Range-Separated Hybrid Functionals. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4414-4420. | 2.3 | 31 |
| 117 | Massively parallel implementations of coupled-cluster methods for electron spin resonance spectra. I. Isotropic hyperfine coupling tensors in large radicals. <i>Journal of Chemical Physics</i> , 2013, 139, 174103. | 1.2 | 16 |
| 118 | Extreme density-driven delocalization error for a model solvated-electron system. <i>Journal of Chemical Physics</i> , 2013, 139, 184116. | 1.2 | 93 |
| 119 | Piecewise Linearity of Approximate Density Functionals Revisited: Implications for Frontier Orbital Energies. <i>Physical Review Letters</i> , 2013, 110, 126403. | 2.9 | 110 |
| 120 | Point-defect optical transitions and thermal ionization energies from quantum Monte Carlo methods: Application to the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle F \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -center defect in MgO. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 53 |
| 121 | Fundamental gaps with approximate density functionals: The derivative discontinuity revealed from ensemble considerations. <i>Journal of Chemical Physics</i> , 2014, 140, 18A540. | 1.2 | 75 |
| 122 | Kinetic and electron-electron energies for convex sums of ground state densities with degeneracies and fractional electron number. <i>Journal of Chemical Physics</i> , 2014, 140, 18A538. | 1.2 | 10 |
| 123 | Local-hybrid functional based on the correlation length. <i>Journal of Chemical Physics</i> , 2014, 141, 124120. | 1.2 | 38 |
| 124 | Kohn-Sham potentials in exact density-functional theory at noninteger electron numbers. <i>Physical Review A</i> , 2014, 90, . | 1.0 | 42 |
| 125 | Tight constraints on the exchange-correlation potentials of degenerate states. <i>Journal of Chemical Physics</i> , 2014, 140, 18A537. | 1.2 | 6 |
| 126 | 25th Anniversary Article: Design of Polymethine Dyes for Allâ€“Optical Switching Applications: Guidance from Theoretical and Computational Studies. <i>Advanced Materials</i> , 2014, 26, 68-84. | 11.1 | 97 |
| 127 | Correlation matrix renormalization approximation for total-energy calculations of correlated electron systems. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 15 |
| 128 | Qualitative breakdown of the unrestricted Hartree-Fock energy. <i>Journal of Chemical Physics</i> , 2014, 141, 164124. | 1.2 | 9 |
| 129 | Atomic electron affinities and the role of symmetry between electron addition and subtraction in a corrected Koopmans approach. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14420-14434. | 1.3 | 9 |
| 130 | Quantum-chemical insights into mixed-valence systems: within and beyond the Robinâ€“Day scheme. <i>Chemical Society Reviews</i> , 2014, 43, 5067-5088. | 18.7 | 168 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 131 | Ping-Pong Protons: How Hydrogen-Bonding Networks Facilitate Heterolytic Bond Cleavage in Peptide Radical Cations. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2628-2637. | 1.2 | 7 |
| 132 | Reactions of Methanol with Pristine and Defective Ceria (111) Surfaces: A Comparison of Density Functionals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23690-23700. | 1.5 | 33 |
| 133 | On a solution of the self-interaction problem in Kohn-Sham density functional theory. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 1160-1178. | 1.9 | 9 |
| 134 | High-resolution spectroscopy and quantum-defect model for the σ triplet $n\pi^*$ and $\pi\pi^*$ Rydberg states of He ₂ . <i>Journal of Chemical Physics</i> , 2014, 140, 064304. | 1.2 | 11 |
| 135 | Insight into organic reactions from the direct random phase approximation and its corrections. <i>Journal of Chemical Physics</i> , 2015, 143, 144115. | 1.2 | 11 |
| 136 | Effect of ensemble generalization on the highest-occupied Kohn-Sham eigenvalue. <i>Journal of Chemical Physics</i> , 2015, 143, 104105. | 1.2 | 16 |
| 137 | Integer versus Fractional Charge Transfer at Metal(Insulator)/Organic Interfaces: Cu(NaCl)/TCNE. <i>ACS Nano</i> , 2015, 9, 5391-5404. | 7.3 | 58 |
| 138 | New massively parallel linear-response coupled-cluster module in ACES III: application to static polarisabilities of closed-shell molecules and oligomers and of open-shell radicals. <i>Molecular Physics</i> , 0, , 1-15. | 0.8 | 1 |
| 139 | Deviations from piecewise linearity in the solid-state limit with approximate density functionals. <i>Journal of Chemical Physics</i> , 2015, 142, 034107. | 1.2 | 42 |
| 140 | Accurate Diels-Alder Reaction Energies from Efficient Density Functional Calculations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2879-2888. | 2.3 | 19 |
| 141 | Variational minimization of orbital-density-dependent functionals. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 29 |
| 142 | Elimination of the asymptotic fractional dissociation problem in Kohn-Sham density-functional theory using the ensemble-generalization approach. <i>Physical Review A</i> , 2015, 91, . | 1.0 | 26 |
| 143 | Fractional Electron Loss in Approximate DFT and Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5262-5268. | 2.3 | 38 |
| 144 | The effect of nitrido, azide, and nitrosyl ligands on magnetization densities and magnetic properties of iridium PNP pincer-type complexes. <i>RSC Advances</i> , 2015, 5, 84311-84320. | 1.7 | 1 |
| 145 | Fractional charge and spin errors in self-consistent Green's function theory. <i>Journal of Chemical Physics</i> , 2015, 142, 194108. | 1.2 | 37 |
| 146 | Size-dependent properties of transition metal clusters: from molecules to crystals and surfaces - computational studies with the program ParaGauss. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28463-28483. | 1.3 | 16 |
| 147 | System-dependent exchange-correlation functional with exact asymptotic potential and μ HOMO ϵ^* . <i>Journal of Chemical Physics</i> , 2015, 143, 024104. | 1.2 | 13 |
| 148 | Scaling correction approaches for reducing delocalization error in density functional approximations. <i>Science China Chemistry</i> , 2015, 58, 1825-1844. | 4.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 149 | Alternative Ornstein-Zernike models from the homogeneous electron liquid for density functional theory calculations. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 852-861. | 1.0 | 3 |
| 150 | SCAN-based hybrid and double-hybrid density functionals from models without fitted parameters. <i>Journal of Chemical Physics</i> , 2016, 144, 044114. | 1.2 | 126 |
| 151 | Short- and long-range corrected hybrid density functionals with the D3 dispersion corrections. <i>Journal of Chemical Physics</i> , 2016, 145, 204101. | 1.2 | 26 |
| 152 | Ionisation potential theorem in the presence of the electric field: Assessment of range-separated functional in the reproduction of orbital and excitation energies. <i>Journal of Chemical Physics</i> , 2016, 144, 164113. | 1.2 | 6 |
| 153 | Global and local curvature in density functional theory. <i>Journal of Chemical Physics</i> , 2016, 145, 054109. | 1.2 | 38 |
| 154 | Hybrid Density Functionals Applied to Complex Solid Catalysts: Successes, Limitations, and Prospects. <i>Catalysis Letters</i> , 2016, 146, 861-885. | 1.4 | 31 |
| 155 | Complex Orbitals, Multiple Local Minima, and Symmetry Breaking in Perdew-Zunger Self-Interaction Corrected Density Functional Theory Calculations. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3195-3207. | 2.3 | 54 |
| 156 | Potential Dependence of Electrochemical Barriers from ab Initio Calculations. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1686-1690. | 2.1 | 213 |
| 157 | How Large Should the QM Region Be in QM/MM Calculations? The Case of Catechol <i>o</i> -Methyltransferase. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11381-11394. | 1.2 | 150 |
| 158 | Kinetic-energy-density dependent semilocal exchange-correlation functionals. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1641-1694. | 1.0 | 78 |
| 159 | Effect of Complex-Valued Optimal Orbitals on Atomization Energies with the Perdew-Zunger Self-Interaction Correction to Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4296-4302. | 2.3 | 29 |
| 160 | Systematic treatment of spin-reactivity indicators in conceptual density functional theory. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1. | 0.5 | 16 |
| 161 | Barriers of Electrochemical CO ₂ Reduction on Transition Metals. <i>Organic Process Research and Development</i> , 2016, 20, 1424-1430. | 1.3 | 135 |
| 162 | One- and many-electron self-interaction error in local and global hybrid functionals. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 62 |
| 163 | Where Does the Density Localize? Convergent Behavior for Global Hybrids, Range Separation, and DFT+U. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5931-5945. | 2.3 | 65 |
| 164 | Kohn-Sham potential for a strongly correlated finite system with fractional occupancy. <i>Physical Review A</i> , 2016, 94, . | 1.0 | 23 |
| 165 | Communication: Two types of flat-planes conditions in density functional theory. <i>Journal of Chemical Physics</i> , 2016, 145, 031102. | 1.2 | 22 |
| 166 | Ill-advised self-interaction contribution in modelling anionic attack along a reaction path. <i>Molecular Physics</i> , 2016, 114, 1066-1075. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 167 | Accurate Ionization Potentials and Electron Affinities of Acceptor Molecules III: A Benchmark of <i>GW</i> Methods. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 615-626. | 2.3 | 154 |
| 168 | Implementation of a Parallel Linear-Response Coupled-Cluster-Theory Module in ACES III. <i>Advances in Quantum Chemistry</i> , 2016, , 29-60. | 0.4 | 3 |
| 169 | Accurate description of the electronic structure of organic semiconductors by <i>GW</i> methods. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 103003. | 0.7 | 26 |
| 170 | Vibrational Frequencies of Fractionally Charged Molecular Species: Benchmarking DFT Results against ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2282-2287. | 1.1 | 4 |
| 171 | Does the ionization potential condition employed in QTP functionals mitigate the self-interaction error?. <i>Journal of Chemical Physics</i> , 2017, 146, 034102. | 1.2 | 22 |
| 172 | Comparing the performance of TD-DFT and SAC-CI methods in the description of excited states potential energy surfaces: An excited state proton transfer reaction as case study. <i>Journal of Computational Chemistry</i> , 2017, 38, 1084-1092. | 1.5 | 15 |
| 173 | Density functional theory for modelling large molecular adsorbate-surface interactions: a mini-review and worked example. <i>Molecular Simulation</i> , 2017, 43, 327-345. | 0.9 | 39 |
| 174 | Exchange-Hole Dipole Dispersion Model for Accurate Energy Ranking in Molecular Crystal Structure Prediction. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 441-450. | 2.3 | 56 |
| 175 | Unifying Exchange Sensitivity in Transition-Metal Spin-State Ordering and Catalysis through Bond Valence Metrics. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5443-5457. | 2.3 | 43 |
| 176 | The ionic versus metallic nature of 2D electrides: a density-functional description. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27343-27352. | 1.3 | 16 |
| 177 | A new nonempirical tuning scheme with single self-consistent field calculation: Comparison with global and IP-tuned range-separated functional. <i>Journal of Computational Chemistry</i> , 2017, 38, 2258-2267. | 1.5 | 18 |
| 178 | Multiconfiguration Pair-Density Functional Theory Is Free From Delocalization Error. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5616-5620. | 2.1 | 31 |
| 179 | Fractional-charge and fractional-spin errors in range-separated density-functional theory. <i>Molecular Physics</i> , 2017, 115, 161-173. | 0.8 | 21 |
| 180 | Vibrational properties of fractionally charged molecules and their relevance for molecular electronics and electrochemistry. <i>Chemical Physics</i> , 2017, 482, 311-318. | 0.9 | 6 |
| 181 | Communication: Recovering the flat-plane condition in electronic structure theory at semi-local DFT cost. <i>Journal of Chemical Physics</i> , 2017, 147, 191101. | 1.2 | 34 |
| 182 | A meta-GGA level screened range-separated hybrid functional by employing short range Hartree-Fock with a long range semilocal functional. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8999-9005. | 1.3 | 21 |
| 183 | Self-Interaction Error in Density Functional Theory: An Appraisal. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2353-2358. | 2.1 | 131 |
| 184 | Free Energy Profile of NaCl in Water: First-Principles Molecular Dynamics with SCAN and B97X-V Exchange-Correlation Functionals. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 884-893. | 2.3 | 41 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 185 | Localized orbital scaling correction for systematic elimination of delocalization error in density functional approximations. <i>National Science Review</i> , 2018, 5, 203-215. | 4.6 | 110 |
| 186 | Where Does the Density Localize in the Solid State? Divergent Behavior for Hybrids and DFT+U. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 670-683. | 2.3 | 57 |
| 187 | Information-Theoretic Approaches to Atoms-in-Molecules: Hirshfeld Family of Partitioning Schemes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4219-4245. | 1.1 | 97 |
| 188 | Shrinking Self-Interaction Errors with the Fermi-Dirac Orbital Self-Interaction-Corrected Density Functional Approximation. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9307-9315. | 1.1 | 30 |
| 189 | On the many-electron self-interaction error of the semilocal exchange hole based meta-GGA level range-separated hybrid with the B88 hybrids. <i>Chemical Physics Letters</i> , 2018, 713, 1-9. | 1.2 | 17 |
| 190 | Performance and Scope of Perturbative Corrections to Random-Phase Approximation Energies. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5701-5714. | 2.3 | 23 |
| 191 | Fermi-Dirac orbital self-interaction corrected density functional theory: Ionization potentials and enthalpies of formation. <i>Journal of Computational Chemistry</i> , 2018, 39, 2463-2471. | 1.5 | 35 |
| 192 | Delocalization Errors in Density Functional Theory Are Essentially Quadratic in Fractional Occupation Number. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6280-6288. | 2.1 | 71 |
| 193 | Theoretical Descriptors of Electrdes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9371-9391. | 1.1 | 63 |
| 194 | Describing strong correlation with fractional-spin correction in density functional theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9678-9683. | 3.3 | 56 |
| 195 | How well can density functional theory and pair-density functional theory predict the correct atomic charges for dissociation and accurate dissociation energetics of ionic bonds?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23072-23078. | 1.3 | 11 |
| 196 | Density functional approximations for orbital energies and total energies of molecules and solids. <i>Journal of Chemical Physics</i> , 2018, 149, 054105. | 1.2 | 29 |
| 197 | From semilocal density functionals to random phase approximation renormalized perturbation theory: A methodological assessment of structural phase transitions. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 68 |
| 198 | Stable Surfaces That Bind Too Tightly: Can Range-Separated Hybrids or DFT+U Improve Paradoxical Descriptions of Surface Chemistry?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5090-5098. | 2.1 | 27 |
| 199 | Beyond Density Functional Theory: The Multiconfigurational Approach To Model Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2019, 9, 8481-8502. | 5.5 | 75 |
| 200 | Computational Exploration of NO Single-Site Disproportionation on Fe-MOF-5. <i>Chemistry of Materials</i> , 2019, 31, 8875-8885. | 3.2 | 20 |
| 201 | Exploring local range separation: The role of spin scaling and one-electron self-interaction. <i>Journal of Chemical Physics</i> , 2019, 151, 154108. | 1.2 | 11 |
| 202 | Implementation of the Many-Pair Expansion for Systematically Improving Density Functional Calculations of Molecules. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1089-1101. | 2.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 203 | Non-empirical, low-cost recovery of exact conditions with model-Hamiltonian inspired expressions in jmDFT. Journal of Chemical Physics, 2019, 150, 154115. | 1.2 | 13 |
| 204 | Long-range screened hybrid-functional theory satisfying the local-density linear response. Physical Review A, 2019, 99, . | 1.0 | 16 |
| 205 | TDDFT+U : A critical assessment of the Hubbard U correction to exchange-correlation kernels and potentials. Physical Review B, 2019, 99, . | 1.1 | 8 |
| 206 | A step in the direction of resolving the paradox of Perdew-Zunger self-interaction correction. Journal of Chemical Physics, 2019, 151, 214108. | 1.2 | 56 |
| 207 | Impact of Approximate DFT Density Delocalization Error on Potential Energy Surfaces in Transition Metal Chemistry. Journal of Chemical Theory and Computation, 2020, 16, 264-277. | 2.3 | 22 |
| 208 | Benchmarking an Embedded Adaptive Sampling Configuration Interaction Method for Surface Reactions: H ₂ Desorption from and CH ₄ Dissociation on Cu(111). Journal of Chemical Theory and Computation, 2020, 16, 7078-7088. | 2.3 | 23 |
| 209 | Symmetry-breaking polymorphous descriptions for correlated materials without interelectronic <i>U</i> . Physical Review B, 2020, 102, . | 1.1 | 48 |
| 210 | Generalizing Double-Hybrid Density Functionals: Impact of Higher-Order Perturbation Terms. Journal of Chemical Theory and Computation, 2020, 16, 7413-7430. | 2.3 | 12 |
| 211 | Electronic and Optical Properties of Protonated Triazine Derivatives. Journal of Physical Chemistry C, 2020, 124, 27801-27810. | 1.5 | 5 |
| 212 | Large-scale comparison of 3d and 4d transition metal complexes illuminates the reduced effect of exchange on second-row spin-state energetics. Physical Chemistry Chemical Physics, 2020, 22, 19326-19341. | 1.3 | 20 |
| 213 | Lysosome Targeting Bis-terpyridine Ruthenium(II) Complexes: Photophysical Properties and <i>In Vitro</i> Photodynamic Therapy. ACS Applied Bio Materials, 2020, 3, 6025-6038. | 2.3 | 29 |
| 214 | The one-electron self-interaction error in 74 density functional approximations: a case study on hydrogenic mono- and dinuclear systems. Physical Chemistry Chemical Physics, 2020, 22, 15805-15830. | 1.3 | 27 |
| 215 | Machine learning models of the energy curvature vs particle number for optimal tuning of long-range corrected functionals. Journal of Chemical Physics, 2020, 152, 154103. | 1.2 | 12 |
| 216 | First-principles Hubbard U and Hund's J corrected approximate density functional theory predicts an accurate fundamental gap in rutile and anatase TiO_2 | 1.1 | 31 |
| 217 | Improvements in the orbitalwise scaling down of Perdew-Zunger self-interaction correction in many-electron regions. Journal of Chemical Physics, 2020, 152, 174112. | 1.2 | 23 |
| 218 | Preserving Symmetry and Degeneracy in the Localized Orbital Scaling Correction Approach. Journal of Physical Chemistry Letters, 2020, 11, 1528-1535. | 2.1 | 31 |
| 219 | On the top rung of Jacob's ladder of density functional theory: Toward resolving the dilemma of SIE and NCE . Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, . | 6.2 | 25 |
| 220 | Local self-interaction correction method with a simple scaling factor. Physical Chemistry Chemical Physics, 2021, 23, 2406-2418. | 1.3 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 221 | Challenges for density functional theory: calculation of CO adsorption on electrocatalytically relevant metals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9394-9406. | 1.3 | 15 |
| 222 | The Role of Range-Separated Correlation in Long-Range Corrected Hybrid Functionals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1207-1213. | 2.1 | 7 |
| 223 | Replacing hybrid density functional theory: motivation and recent advances. <i>Chemical Society Reviews</i> , 2021, 50, 8470-8495. | 18.7 | 80 |
| 224 | Self-Interaction-Corrected Random Phase Approximation. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2107-2115. | 2.3 | 2 |
| 225 | Exploring and enhancing the accuracy of interior-scaled Perdew-Zunger self-interaction correction. <i>Journal of Chemical Physics</i> , 2021, 154, 094105. | 1.2 | 12 |
| 226 | Molecular DFT+U: A Transferable, Low-Cost Approach to Eliminate Delocalization Error. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3633-3640. | 2.1 | 9 |
| 227 | Fermi-Löwdin-orbital self-interaction correction using the optimized-effective-potential method within the Krieger-Li-Iafate approximation. <i>Physical Review A</i> , 2021, 103, . | 1.0 | 14 |
| 228 | Correcting the Charge Delocalization Error of Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4633-4638. | 2.3 | 12 |
| 229 | Handling Ensemble $\langle i \rangle N \langle /i \rangle$ -Representability Constraint in Explicit-by-Implicit Manner. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6788-6793. | 2.1 | 10 |
| 230 | The Effect of Hartree-Fock Exchange on Scaling Relations and Reaction Energetics for C-H Activation Catalysts. <i>Topics in Catalysis</i> , 2022, 65, 296-311. | 1.3 | 11 |
| 231 | Computational Discovery of Transition-metal Complexes: From High-throughput Screening to Machine Learning. <i>Chemical Reviews</i> , 2021, 121, 9927-10000. | 23.0 | 110 |
| 232 | N-dependent self-interaction corrections: Are they still appealing?. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1. | 0.5 | 0 |
| 233 | Theoretical study on adiabatic electron affinity of fatty acids. <i>New Journal of Chemistry</i> , 2021, 45, 16892-16905. | 1.4 | 4 |
| 234 | Proton-transfer dynamics in ionized water chains using real-time time-dependent density functional theory. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 6 |
| 235 | Fukui Function. , 2009, , . | | 37 |
| 236 | Unity of Kohn-Sham density-functional theory and reduced-density-matrix-functional theory. <i>Physical Review A</i> , 2021, 104, . | 1.0 | 11 |
| 237 | Exact analytical ground state solution of 1D H $_{2}^{+}$ with soft Coulomb potential. <i>Journal of Mathematical Chemistry</i> , 2022, 60, 184-194. | 0.7 | 3 |
| 238 | Study of self-interaction-errors in barrier heights using locally scaled and Perdew-Zunger self-interaction methods. <i>Journal of Chemical Physics</i> , 2022, 156, 014306. | 1.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 239 | Computational Scaling Relationships Predict Experimental Activity and Rate-Limiting Behavior in Homogeneous Water Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 2186-2197. | 1.9 | 3 |
| 240 | Eliminating Delocalization Error to Improve Heterogeneous Catalysis Predictions with Molecular DFT + $\langle i \rangle U \langle /i \rangle$. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1142-1155. | 2.3 | 7 |
| 241 | Functional-Based Description of Electronic Dynamic and Strong Correlation: Old Issues and New Insights. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1744-1751. | 2.1 | 6 |
| 242 | Approximate functionals in hypercomplex Kohn-Sham theory. <i>Electronic Structure</i> , 2022, 4, 014011. | 1.0 | 3 |
| 243 | Study of Self-Interaction Errors in Density Functional Calculations of Magnetic Exchange Coupling Constants Using Three Self-Interaction Correction Methods. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1923-1935. | 1.1 | 6 |
| 245 | Molecular orbital projectors in non-empirical mDFT recover exact conditions in transition-metal chemistry. <i>Journal of Chemical Physics</i> , 2022, 156, 184112. | 1.2 | 2 |
| 246 | Ligand Additivity and Divergent Trends in Two Types of Delocalization Errors from Approximate Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4549-4555. | 2.1 | 2 |
| 247 | Complex Fermi-Landau orbital self-interaction correction. <i>Journal of Chemical Physics</i> , 2022, 156, . | 1.2 | 5 |
| 248 | Systematically Improvable Generalization of Self-Interaction Corrected Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5698-5702. | 2.1 | 5 |
| 249 | Effects of non-local exchange functionals in the density functional theories for the description of molecular vibrations. <i>Journal of Chemical Sciences</i> , 2022, 134, . | 0.7 | 2 |
| 250 | Bloch's theorem in orbital-density-dependent functionals: Band structures from Koopmans spectral functionals. <i>Physical Review B</i> , 2022, 106, . | 1.1 | 5 |
| 251 | How Good Is the Density-Corrected SCAN Functional for Neutral and Ionic Aqueous Systems, and What Is So Right about the Hartree-Fock Density?. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 4745-4761. | 2.3 | 20 |
| 252 | Delocalization error: The greatest outstanding challenge in density-functional theory. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2023, 13, . | 6.2 | 43 |
| 253 | Molecular interactions from the density functional theory for chemical reactivity: Interaction chemical potential, hardness, and reactivity principles. <i>Frontiers in Chemistry</i> , 0, 10, . | 1.8 | 9 |
| 254 | Computational Analysis of Structure-Activity Relationships in Highly Active Homogeneous Ruthenium-Based Water Oxidation Catalysts. <i>Catalysts</i> , 2022, 12, 863. | 1.6 | 2 |
| 255 | Properties of the density functional response kernels and its implications on chemistry. <i>Journal of Chemical Physics</i> , 2022, 157, . | 1.2 | 5 |
| 256 | Impacts of polarizable continuum models on the SCF convergence and DFT delocalization error of large molecules. <i>Journal of Chemical Physics</i> , 2022, 157, . | 1.2 | 2 |
| 257 | Electrochemistry from the atomic scale, in the electronically grand-canonical ensemble. <i>Journal of Chemical Physics</i> , 2022, 157, . | 1.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 258 | Mean Value Ensemble Hubbard- U Correction for Spin-Crossover Molecules. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 12049-12054. | 2.1 | 3 |
| 259 | Understanding Density-Driven Errors for Reaction Barrier Heights. <i>Journal of Chemical Theory and Computation</i> , 2023, 19, 532-543. | 2.3 | 11 |
| 260 | Spin-crossover complexes: Self-interaction correction vs density correction. <i>Journal of Chemical Physics</i> , 2023, 158, . | 1.2 | 4 |
| 261 | Application of a Simple Density-Functional Approximation to Non-identical Fermions in One-dimensional Confinement. <i>Brazilian Journal of Physics</i> , 2023, 53, . | 0.7 | 0 |
| 262 | Hubbard U through polaronic defect states. <i>Npj Computational Materials</i> , 2022, 8, . | 3.5 | 3 |
| 263 | Self-consistent implementation of locally scaled self-interaction-correction method. <i>Journal of Chemical Physics</i> , 2023, 158, . | 1.2 | 6 |
| 264 | How Do Self-Interaction Errors Associated with Stretched Bonds Affect Barrier Height Predictions?. <i>Journal of Physical Chemistry A</i> , 2023, 127, 1750-1759. | 1.1 | 3 |
| 265 | Insights into the deviation from piecewise linearity in transition metal complexes from supervised machine learning models. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 8103-8116. | 1.3 | 2 |