

Dipayan Datta

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,285
citations

687363

13
h-index

677142

22
g-index

24
all docs

24
docs citations

24
times ranked

1101
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Recent developments in the general atomic and molecular electronic structure system. Journal of Chemical Physics, 2020, 152, 154102. | 3.0 | 734 |
| 2 | A state-specific partially internally contracted multireference coupled cluster approach. Journal of Chemical Physics, 2011, 134, 214116. | 3.0 | 74 |
| 3 | Multireference equation-of-motion coupled cluster theory. Journal of Chemical Physics, 2012, 137, 204107. | 3.0 | 62 |
| 4 | Analytic energy derivatives for the calculation of the first-order molecular properties using the domain-based local pair-natural orbital coupled-cluster theory. Journal of Chemical Physics, 2016, 145, . | 3.0 | 57 |
| 5 | Comparative study of multireference perturbative theories for ground and excited states. Journal of Chemical Physics, 2009, 131, 204104. | 3.0 | 51 |
| 6 | Communication: Multireference equation of motion coupled cluster: A transform and diagonalize approach to electronic structure. Journal of Chemical Physics, 2014, 140, 081102. | 3.0 | 44 |
| 7 | An explicitly spin-free compact open-shell coupled cluster theory using a multireference combinatoric exponential ansatz: Formal development and pilot applications. Journal of Chemical Physics, 2009, 131, 044124. | 3.0 | 39 |
| 8 | The spin-free analogue of Mukherjee's state-specific multireference coupled cluster theory. Journal of Chemical Physics, 2011, 134, 054122. | 3.0 | 39 |
| 9 | Additional global internal contraction in variations of multireference equation of motion coupled cluster theory. Journal of Chemical Physics, 2013, 138, 134108. | 3.0 | 33 |
| 10 | A Massively Parallel Implementation of the CCSD(T) Method Using the Resolution-of-the-Identity Approximation and a Hybrid Distributed/Shared Memory Parallelization Model. Journal of Chemical Theory and Computation, 2021, 17, 4799-4822. | 5.3 | 23 |
| 11 | Development and pilot molecular applications of the uncoupled state-specific MRCC (UC-SS-MRCC) theory. Chemical Physics, 2008, 349, 115-120. | 1.9 | 20 |
| 12 | A compact spin-free combinatoric open-shell coupled cluster theory applied to single-reference doublets. International Journal of Quantum Chemistry, 2008, 108, 2211-2222. | 2.0 | 18 |
| 13 | A Non-antisymmetric Tensor Contraction Engine for the Automated Implementation of Spin-Adapted Coupled Cluster Approaches. Journal of Chemical Theory and Computation, 2013, 9, 2639-2653. | 5.3 | 16 |
| 14 | Inactive excitations in Mukherjee's state-specific multireference coupled cluster theory treated with internal contraction: Development and applications. Journal of Chemical Physics, 2012, 136, 164104. | 3.0 | 13 |
| 15 | Communication: Spin densities within a unitary group based spin-adapted open-shell coupled-cluster theory: Analytic evaluation of isotropic hyperfine-coupling constants for the combinatoric open-shell coupled-cluster scheme. Journal of Chemical Physics, 2015, 143, 011101. | 3.0 | 13 |
| 16 | Accurate Prediction of Hyperfine Coupling Tensors for Main Group Elements Using a Unitary Group Based Rigorously Spin-Adapted Coupled-Cluster Theory. Journal of Chemical Theory and Computation, 2019, 15, 1572-1592. | 5.3 | 12 |
| 17 | Analytic first derivatives for a spin-adapted open-shell coupled cluster theory: Evaluation of first-order electrical properties. Journal of Chemical Physics, 2014, 141, 104102. | 3.0 | 10 |
| 18 | A novel VU-MRCC formalism for the simultaneous treatment of strong relaxation and correlation effects with applications to electron affinity of neutral radicals. Chemical Physics, 2006, 329, 290-306. | 1.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Use of a convenient size-extensive normalization in multi-reference coupled cluster (MRCC) theory with incomplete model space: A novel valence universal MRCC formulation. <i>Chemical Physics</i> , 2009, 356, 54-63. | 1.9 | 8 |
| 20 | ^{57}Fe Mössbauer parameters from domain based local pair-natural orbital coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2020, 153, 204101. | 3.0 | 5 |
| 21 | PDG: A Composite Method Based on the Resolution of the Identity. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9421-9429. | 2.5 | 3 |
| 22 | Applications of a Novel Spin-free Combinatoric Open-shell Coupled Cluster (COS-CC) Theory to Single-reference Doublets. <i>AIP Conference Proceedings</i> , 2007, , . | 0.4 | 0 |
| 23 | A compact spin-free coupled-cluster theory for open-shell systems. <i>AIP Conference Proceedings</i> , 2008, , . | 0.4 | 0 |