Chenyang Li

List of Publications by Year
in descending order

20 papers	465 citations	759233 12 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	363 citing authors

#	Article	IF	Citations
1	Multireference Driven Similarity Renormalization Group: A Second-Order Perturbative Analysis. Journal of Chemical Theory and Computation, 2015, 11, 2097-2108.	5.3	76
2	A Combined Selected Configuration Interaction and Many-Body Treatment of Static and Dynamical Correlation in Oligoacenes. Journal of Chemical Theory and Computation, 2018, 14, 6295-6305.	5.3	46
3	An integral-factorized implementation of the driven similarity renormalization group second-order multireference perturbation theory. Journal of Chemical Physics, 2016, 144, 204111.	3.0	42
4	Driven similarity renormalization group: Third-order multireference perturbation theory. Journal of Chemical Physics, 2017, 146, 124132.	3.0	40
5	Towards numerically robust multireference theories: The driven similarity renormalization group truncated to one- and two-body operators. Journal of Chemical Physics, 2016, 144, 164114.	3.0	35
6	Driven similarity renormalization group for excited states: A state-averaged perturbation theory. Journal of Chemical Physics, 2018, 148, 124106.	3.0	30
7	Tuning the Quantum Dot (QD)/Mediator Interface for Optimal Efficiency of QD-Sensitized Near-Infrared-to-Visible Photon Upconversion Systems. ACS Applied Materials & Interfaces, 2020, 12, 36558-36567.	8.0	25
8	Multireference Theories of Electron Correlation Based on the Driven Similarity Renormalization Group. Annual Review of Physical Chemistry, 2019, 70, 245-273.	10.8	24
9	Improving the Efficiency of the Multireference Driven Similarity Renormalization Group via Sequential Transformation, Density Fitting, and the Noninteracting Virtual Orbital Approximation. Journal of Chemical Theory and Computation, 2019, 15, 4399-4414.	5.3	18
10	Conjugated Oligomers with Stable Radical Substituents: Synthesis, Single Crystal Structures, Electronic Structure, and Excited State Dynamics. Chemistry of Materials, 2018, 30, 7840-7851.	6.7	16
11	Dynamically weighted multireference perturbation theory: Combining the advantages of multi-state and state-averaged methods. Journal of Chemical Physics, 2019, 150, 144107.	3.0	16
12	Spin-free formulation of the multireference driven similarity renormalization group: A benchmark study of first-row diatomic molecules and spin-crossover energetics. Journal of Chemical Physics, 2021, 155, 114111.	3.0	14
13	A low-cost approach to electronic excitation energies based on the driven similarity renormalization group. Journal of Chemical Physics, 2017, 147, 074107.	3.0	12
14	Intricate Internal Rotation Surface and Fundamental Infrared Transitions of the n-Propyl Radical. Journal of Physical Chemistry B, 2015, 119, 728-735.	2.6	10
15	Theoretical Calculation of Core-Excited States along Dissociative Pathways beyond Second-Order Perturbation Theory. Journal of Chemical Theory and Computation, 2022, 18, 219-233.	5.3	9
16	Analytic gradients for the single-reference driven similarity renormalization group second-order perturbation theory. Journal of Chemical Physics, 2019, 151, 044118.	3.0	7
17	Analytic Energy Gradients for the Driven Similarity Renormalization Group Multireference Second-Order Perturbation Theory. Journal of Chemical Theory and Computation, 2021, 17, 7666-7681.	5.3	7
18	The Remarkable [ReH₉]^{2â€“} Dianion: Molecular Structure and Vibrational Frequencies. Journal of Physical Chemistry B, 2014, 118, 6482-6490.	2.6	6

#	Article	IF	Citations
19	Second-Order Active-Space Embedding Theory. Journal of Chemical Theory and Computation, 2022, 18, 1527-1541.	5.3	6
20	Connected three-body terms in single-reference unitary many-body theories: Iterative and perturbative approximations. Journal of Chemical Physics, 2020, 152, 234116.	3.0	5