Jiajun Ren

List of Publications by Year
in descending order

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23	796	471371 17	642610 23
papers	citations	h-index	g-index

27	27	27	770
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-Markovian stochastic SchrÃ¶dinger equation: Matrix-product-state approach to the hierarchy of pure states. Physical Review A, 2022, 105, .	1.0	9
2	Timeâ€dependent density matrix renormalization group method for quantum dynamics in complex systems. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	6.2	19
3	On the fly swapping algorithm for ordering of degrees of freedom in density matrix renormalization group. Journal of Physics Condensed Matter, 2022, 34, 254003.	0.7	7
4	Hybrid Quantum-Classical Boson Sampling Algorithm for Molecular Vibrationally Resolved Electronic Spectroscopy with Duschinsky Rotation and Anharmonicity. Journal of Physical Chemistry Letters, 2022, 13, 6391-6399.	2.1	3
5	Evaluating the anharmonicity contributions to the molecular excited state internal conversion rates with finite temperature TD-DMRG. Journal of Chemical Physics, 2021, 154, 214109.	1.2	21
6	Intermolecular Charge-Transfer-Induced Strong Optical Emission from Herringbone H-Aggregates. Nano Letters, 2021, 21, 5394-5400.	4.5	20
7	A general charge transport picture for organic semiconductors with nonlocal electron-phonon couplings. Nature Communications, 2021, 12, 4260.	5.8	38
8	Intermolecular charge-transfer aggregates enable high-efficiency near-infrared emissions by nonadiabatic coupling suppression. Science China Chemistry, 2021, 64, 1786-1795.	4.2	25
9	Chebyshev Matrix Product States with Canonical Orthogonalization for Spectral Functions of Many-Body Systems. Journal of Physical Chemistry Letters, 2021, 12, 9344-9352.	2.1	6
10	A general automatic method for optimal construction of matrix product operators using bipartite graph theory. Journal of Chemical Physics, 2020, 153, 084118.	1.2	22
11	Simultaneously and Selectively Imaging a Cytoplasm Membrane and Mitochondria Using a Dual-Colored Aggregation-Induced Emission Probe. Analytical Chemistry, 2020, 92, 14494-14500.	3.2	37
12	Applying Marcus theory to describe the carrier transports in organic semiconductors: Limitations and beyond. Journal of Chemical Physics, 2020, 153, 080902.	1.2	53
13	Finite-Temperature TD-DMRG for the Carrier Mobility of Organic Semiconductors. Journal of Physical Chemistry Letters, 2020, 11, 4930-4936.	2.1	27
14	Numerical assessment for accuracy and GPU acceleration of TD-DMRG time evolution schemes. Journal of Chemical Physics, 2020, 152, 024127.	1.2	38
15	Finite Temperature Dynamical Density Matrix Renormalization Group for Spectroscopy in Frequency Domain. Journal of Physical Chemistry Letters, 2020, 11, 3761-3768.	2.1	18
16	Time-Dependent Density Matrix Renormalization Group Algorithms for Nearly Exact Absorption and Fluorescence Spectra of Molecular Aggregates at Both Zero and Finite Temperature. Journal of Chemical Theory and Computation, 2018, 14, 5027-5039.	2.3	83
17	Role of the Dark 2A_g State in Donorâ€“Acceptor Copolymers as a Pathway for Singlet Fission: A DMRG Study. Journal of Physical Chemistry Letters, 2017, 8, 2175-2181.	2.1	30
18	Excitonic coupling effect on the nonradiative decay rate in molecular aggregates: Formalism and application. Chemical Physics Letters, 2017, 683, 507-514.	1.2	24

#	Article	IF	Citations
19	Inner Space Perturbation Theory in Matrix Product States: Replacing Expensive Iterative Diagonalization. Journal of Chemical Theory and Computation, 2016, 12, 4871-4878.	2.3	18
20	Electrostatic Interaction-Induced Room-Temperature Phosphorescence in Pure Organic Molecules from QM/MM Calculations. Journal of Physical Chemistry Letters, 2016, 7, 2893-2898.	2.1	126
21	Tripletâ€“Polaronâ€Interactionâ€Induced Upconversion from Triplet to Singlet: a Possible Way to Obtain Highly Efficient OLEDs. Advanced Materials, 2016, 28, 4740-4746.	11.1	140
22	Comparative study on the methodologies for calculating the excited state in DMRG. Scientia Sinica Chimica, 2015, 45, 1316-1324.	0.2	2
23	Nonadiabatic Molecular Dynamics Modeling of the Intrachain Charge Transport in Conjugated Diketopyrrolo-pyrrole Polymers. Journal of Physical Chemistry C, 2014, 118, 6631-6640.	1.5	30