Jianlan Wu

List of Publications by Year
in descending order

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40 papers	1,271 citations	430874 18 h-index	345221 36 g-index
41 all docs	41 docs citations	41 times ranked	1039 citing authors

#	Article	IF	Citations
1	Efficient energy transfer in light-harvesting systems, I: optimal temperature, reorganization energy and spatialâ€“temporal correlations. New Journal of Physics, 2010, 12, 105012.	2.9	172
2	Efficient Energy Transfer in Light-Harvesting Systems, III: The Influence of the Eighth Bacteriochlorophyll on the Dynamics and Efficiency in FMO. Journal of Physical Chemistry Letters, 2011, 2, 3045-3052.	4.6	123
3	Extended hierarchy equation of motion for the spin-boson model. Journal of Chemical Physics, 2015, 143, 224112.	3.0	94
4	Efficient energy transfer in light-harvesting systems: Quantum-classical comparison, flux network, and robustness analysis. Journal of Chemical Physics, 2012, 137, 174111.	3.0	82
5	Zero-temperature localization in a sub-Ohmic spin-boson model investigated by an extended hierarchy equation of motion. Physical Review B, 2017, 95, .	3.2	73
6	Generic Mechanism of Optimal Energy Transfer Efficiency: A Scaling Theory of the Mean First-Passage Time in Exciton Systems. Physical Review Letters, 2013, 110, 200402.	7.8	66
7	Linear and nonlinear response functions of the Morse oscillator: Classical divergence and the uncertainty principle. Journal of Chemical Physics, 2001, 115, 5381-5391.	3.0	59
8	The experimental realization of high-fidelity â€˜shortcut-to-adiabaticityâ€™ quantum gates in a superconducting Xmon qubit. New Journal of Physics, 2018, 20, 065003.	2.9	58
9	Structural arrest transitions in fluids described by two Yukawa potentials. Physical Review E, 2004, 70, 050401.	2.1	55
10	Calculations of nonlinear spectra of liquid Xe. II. Fifth-order Raman response. Journal of Chemical Physics, 2002, 116, 3760-3776.	3.0	48
11	High-Order Mode-Coupling Theory for the Colloidal Glass Transition. Physical Review Letters, 2005, 95, 078301.	7.8	42
12	Experimental Realization of a Fast Controlled- Z Gate via a Shortcut to Adiabaticity. Physical Review Applied, 2019, 11, .	3.8	36
13	Calculations of nonlinear spectra of liquid Xe. I. Third-order Raman response. Journal of Chemical Physics, 2002, 116, 3739-3759.	3.0	34
14	Measuring the Berry phase in a superconducting phase qubit by a shortcut to adiabaticity. Physical Review A, 2017, 95, .	2.5	34
15	Ab initio nonadiabatic molecular dynamics investigation on the dynamics of photogenerated spin hole current in Cu-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	3.2	32
16	Higher-order kinetic expansion of quantum dissipative dynamics: Mapping quantum networks to kinetic networks. Journal of Chemical Physics, 2013, 139, 044102.	3.0	30
17	Experimental demonstration of work fluctuations along a shortcut to adiabaticity with a superconducting Xmon qubit. New Journal of Physics, 2018, 20, 085001.	2.9	30
18	Conformational Nonequilibrium Enzyme Kinetics: Generalized Michaelisâ€“Menten Equation. Journal of Physical Chemistry Letters, 2017, 8, 3619-3623.	4.6	25

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19	Simulating a topological transition in a superconducting phase qubit by fast adiabatic trajectories. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	19
20	A continued fraction resummation form of bath relaxation effect in the spin-boson model. Journal of Chemical Physics, 2015, 142, 084103.	3.0	18
21	The study of an extended hierarchy equation of motion in the spin-boson model: The cutoff function of the sub-Ohmic spectral density. Journal of Chemical Physics, 2017, 147, 164112.	3.0	15
22	Minimal Model of Quantum Kinetic Clusters for the Energy-Transfer Network of a Light-Harvesting Protein Complex. Journal of Physical Chemistry Letters, 2015, 6, 1240-1245.	4.6	14
23	Dynamical scaling in the Ohmic spin-boson model studied by extended hierarchical equations of motion. Journal of Chemical Physics, 2019, 150, 084114.	3.0	14
24	Unusual Transport Properties with Noncommutative Systemâ€“Bath Coupling Operators. Journal of Physical Chemistry Letters, 2020, 11, 4080-4085.	4.6	13
25	Gaussian factorization of hydrodynamic correlation functions and mode-coupling memory kernels. Physical Review E, 2003, 67, 061116.	2.1	10
26	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. Physical Review B, 2018, 98, .	3.2	9
27	Optimization of a Controlled- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Z</mml:mi></mml:math> Gate with Data-Driven Gradient-Ascent Pulse Engineering in a Superconducting-Qubit System. Physical Review Applied, 2021, 15, .	3.8	9
28	Stability Analysis of Three-Dimensional Colloidal Domains:â€‰ Quadratic Fluctuations. Journal of Physical Chemistry B, 2005, 109, 21342-21349.	2.6	8
29	Generalized quantum kinetic expansion: Time scale separation between intra-cluster and inter-cluster kinetics. Journal of Chemical Physics, 2015, 143, 104107.	3.0	8
30	Simultaneous Feedback and Feedforward Control and Its Application to Realize a Random Walk on the Bloch Sphere in an Xmon-Superconducting-Qubit System. Physical Review Applied, 2020, 14, .	3.8	8
31	Generalized quantum kinetic expansion: Higher-order corrections to multichromophoric FÃ¶rster theory. Journal of Chemical Physics, 2015, 143, 074102.	3.0	7
32	East Model:â€‰ Basis Set Expansion, Mode Coupling, and Irreducible Memory Kernels. Journal of Physical Chemistry B, 2004, 108, 6796-6808.	2.6	5
33	Experimental Determination of Electronic States via Digitized Shortcut to Adiabaticity and Sequential Digitized Adiabaticity. Physical Review Applied, 2021, 16, .	3.8	3
34	Polarization Selectivity of Third-Order and Fifth-Order Raman Spectroscopies in Liquids and Solids. Journal of Physical Chemistry A, 2007, 111, 9627-9631.	2.5	2
35	Quantum kinetic expansion in the spin-boson model: Matrix formulation and system-bath factorized initial state. Journal of Chemical Physics, 2017, 147, 244112.	3.0	2
36	Quantum kinetic expansion in the spin-boson model: Implemented by the quantum-classical Liouville equation in an anharmonic bath. Journal of Chemical Physics, 2018, 148, 234107.	3.0	2

#	Article	IF	Citations
37	Surface State and the Aspect Ratio of the Si3N4 Nanowire. Journal of Nanoscience and Nanotechnology, 2016, 16, 8146-8149.	0.9	1
38	Optimal initialization of a quantum system for an efficient coherent energy transfer. Chinese Journal of Chemical Physics, 2018, 31, 421-432.	1.3	1
39	Abnormal behavior of potassium adsorbed phosphorene. International Journal of Computational Materials Science and Engineering, 2017, 06, 1850002.	0.7	0
40	Absorption matrix of multi-site systems calculated by a hybrid quantum-classical Liouville equation. Journal of Chemical Physics, 2019, 151, 224109.	3.0	0