Jianlan Wu

List of Publications by Year
in descending order

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40	1,271	430442	344852
papers	citations	18 h-index	36 g-index

41	41	41	1039
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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, .	1.5	9
2	Experimental Determination of Electronic States via Digitized Shortcut to Adiabaticity and Sequential Digitized Adiabaticity. Physical Review Applied, 2021, 16, .	1.5	3
3	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, .	1.5	8
4	Unusual Transport Properties with Noncommutative Systemâ€“Bath Coupling Operators. Journal of Physical Chemistry Letters, 2020, 11, 4080-4085.	2.1	13
5	Dynamical scaling in the Ohmic spin-boson model studied by extended hierarchical equations of motion. Journal of Chemical Physics, 2019, 150, 084114.	1.2	14
6	Experimental Realization of a Fast Controlled- Z Gate via a Shortcut to Adiabaticity. Physical Review Applied, 2019, 11, .	1.5	36
7	Absorption matrix of multi-site systems calculated by a hybrid quantum-classical Liouville equation. Journal of Chemical Physics, 2019, 151, 224109.	1.2	0
8	Simulating a topological transition in a superconducting phase qubit by fast adiabatic trajectories. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	19
9	Optimal initialization of a quantum system for an efficient coherent energy transfer. Chinese Journal of Chemical Physics, 2018, 31, 421-432.	0.6	1
10	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. Physical Review B, 2018, 98, .	1.1	9
11	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.	1.2	2
12	The experimental realization of high-fidelity â€˜shortcut-to-adiabaticityâ€™ quantum gates in a superconducting Xmon qubit. New Journal of Physics, 2018, 20, 065003.	1.2	58
13	Experimental demonstration of work fluctuations along a shortcut to adiabaticity with a superconducting Xmon qubit. New Journal of Physics, 2018, 20, 085001.	1.2	30
14	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, .	1.1	32
15	Conformational Nonequilibrium Enzyme Kinetics: Generalized Michaelisâ€“Menten Equation. Journal of Physical Chemistry Letters, 2017, 8, 3619-3623.	2.1	25
16	Measuring the Berry phase in a superconducting phase qubit by a shortcut to adiabaticity. Physical Review A, 2017, 95, .	1.0	34
17	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.	1.2	15
18	Zero-temperature localization in a sub-Ohmic spin-boson model investigated by an extended hierarchy equation of motion. Physical Review B, 2017, 95, .	1.1	73

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19	Quantum kinetic expansion in the spin-boson model: Matrix formulation and system-bath factorized initial state. Journal of Chemical Physics, 2017, 147, 244112.	1.2	2
20	Abnormal behavior of potassium adsorbed phosphorene. International Journal of Computational Materials Science and Engineering, 2017, 06, 1850002.	0.5	0
21	Surface State and the Aspect Ratio of the Si3N4 Nanowire. Journal of Nanoscience and Nanotechnology, 2016, 16, 8146-8149.	0.9	1
22	Generalized quantum kinetic expansion: Time scale separation between intra-cluster and inter-cluster kinetics. Journal of Chemical Physics, 2015, 143, 104107.	1.2	8
23	Generalized quantum kinetic expansion: Higher-order corrections to multichromophoric FÃ¶rster theory. Journal of Chemical Physics, 2015, 143, 074102.	1.2	7
24	Extended hierarchy equation of motion for the spin-boson model. Journal of Chemical Physics, 2015, 143, 224112.	1.2	94
25	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.	2.1	14
26	A continued fraction resummation form of bath relaxation effect in the spin-boson model. Journal of Chemical Physics, 2015, 142, 084103.	1.2	18
27	Higher-order kinetic expansion of quantum dissipative dynamics: Mapping quantum networks to kinetic networks. Journal of Chemical Physics, 2013, 139, 044102.	1.2	30
28	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.	2.9	66
29	Efficient energy transfer in light-harvesting systems: Quantum-classical comparison, flux network, and robustness analysis. Journal of Chemical Physics, 2012, 137, 174111.	1.2	82
30	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.	2.1	123
31	Efficient energy transfer in light-harvesting systems, I: optimal temperature, reorganization energy and spatialâ€“temporal correlations. New Journal of Physics, 2010, 12, 105012.	1.2	172
32	Polarization Selectivity of Third-Order and Fifth-Order Raman Spectroscopies in Liquids and Solids. Journal of Physical Chemistry A, 2007, 111, 9627-9631.	1.1	2
33	High-Order Mode-Coupling Theory for the Colloidal Glass Transition. Physical Review Letters, 2005, 95, 078301.	2.9	42
34	Stability Analysis of Three-Dimensional Colloidal Domains:â€‰ Quadratic Fluctuations. Journal of Physical Chemistry B, 2005, 109, 21342-21349.	1.2	8
35	Structural arrest transitions in fluids described by two Yukawa potentials. Physical Review E, 2004, 70, 050401.	0.8	55
36	East Model:â€‰ Basis Set Expansion, Mode Coupling, and Irreducible Memory Kernels. Journal of Physical Chemistry B, 2004, 108, 6796-6808.	1.2	5

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37	Gaussian factorization of hydrodynamic correlation functions and mode-coupling memory kernels. Physical Review E, 2003, 67, 061116.	0.8	10
38	Calculations of nonlinear spectra of liquid Xe. I. Third-order Raman response. Journal of Chemical Physics, 2002, 116, 3739-3759.	1.2	34
39	Calculations of nonlinear spectra of liquid Xe. II. Fifth-order Raman response. Journal of Chemical Physics, 2002, 116, 3760-3776.	1.2	48
40	Linear and nonlinear response functions of the Morse oscillator: Classical divergence and the uncertainty principle. Journal of Chemical Physics, 2001, 115, 5381-5391.	1.2	59