

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
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41
all docs

41
docs citations

41
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of a Controlled- Z Gate with Data-Driven Gradient-Ascent Pulse Engineering in a Superconducting-Qubit System. <i>Physical Review Applied</i> , 2021, 15, .	3.8	9
2	Experimental Determination of Electronic States via Digitized Shortcut to Adiabaticity and Sequential Digitized Adiabaticity. <i>Physical Review Applied</i> , 2021, 16, .	3.8	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. <i>Physical Review Applied</i> , 2020, 14, .	3.8	8
4	Unusual Transport Properties with Noncommutative System's Bath Coupling Operators. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4080-4085.	4.6	13
5	Dynamical scaling in the Ohmic spin-boson model studied by extended hierarchical equations of motion. <i>Journal of Chemical Physics</i> , 2019, 150, 084114.	3.0	14
6	Experimental Realization of a Fast Controlled- Z Gate via a Shortcut to Adiabaticity. <i>Physical Review Applied</i> , 2019, 11, .	3.8	36
7	Absorption matrix of multi-site systems calculated by a hybrid quantum-classical Liouville equation. <i>Journal of Chemical Physics</i> , 2019, 151, 224109.	3.0	0
8	Simulating a topological transition in a superconducting phase qubit by fast adiabatic trajectories. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	19
9	Optimal initialization of a quantum system for an efficient coherent energy transfer. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 421-432.	1.3	1
10	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. <i>Physical Review B</i> , 2018, 98, .	3.2	9
11	Quantum kinetic expansion in the spin-boson model: Implemented by the quantum-classical Liouville equation in an anharmonic bath. <i>Journal of Chemical Physics</i> , 2018, 148, 234107.	3.0	2
12	The experimental realization of high-fidelity "shortcut-to-adiabaticity" quantum gates in a superconducting Xmon qubit. <i>New Journal of Physics</i> , 2018, 20, 065003.	2.9	58
13	Experimental demonstration of work fluctuations along a shortcut to adiabaticity with a superconducting Xmon qubit. <i>New Journal of Physics</i> , 2018, 20, 085001.	2.9	30
14	Ab initio nonadiabatic molecular dynamics investigation on the dynamics of photogenerated spin hole current in Cu-doped MoS_2 . <i>Physical Review B</i> , 2017, 96, .	3.2	32
15	Conformational Nonequilibrium Enzyme Kinetics: Generalized Michaelis-Menten Equation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3619-3623.	4.6	25
16	Measuring the Berry phase in a superconducting phase qubit by a shortcut to adiabaticity. <i>Physical Review A</i> , 2017, 95, .	2.5	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. <i>Journal of Chemical Physics</i> , 2017, 147, 164112.	3.0	15
18	Zero-temperature localization in a sub-Ohmic spin-boson model investigated by an extended hierarchy equation of motion. <i>Physical Review B</i> , 2017, 95, .	3.2	73

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19	Quantum kinetic expansion in the spin-boson model: Matrix formulation and system-bath factorized initial state. <i>Journal of Chemical Physics</i> , 2017, 147, 244112.	3.0	2
20	Abnormal behavior of potassium adsorbed phosphorene. <i>International Journal of Computational Materials Science and Engineering</i> , 2017, 06, 1850002.	0.7	0
21	Surface State and the Aspect Ratio of the Si ₃ N ₄ Nanowire. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8146-8149.	0.9	1
22	Generalized quantum kinetic expansion: Time scale separation between intra-cluster and inter-cluster kinetics. <i>Journal of Chemical Physics</i> , 2015, 143, 104107.	3.0	8
23	Generalized quantum kinetic expansion: Higher-order corrections to multichromophoric Förster theory. <i>Journal of Chemical Physics</i> , 2015, 143, 074102.	3.0	7
24	Extended hierarchy equation of motion for the spin-boson model. <i>Journal of Chemical Physics</i> , 2015, 143, 224112.	3.0	94
25	Minimal Model of Quantum Kinetic Clusters for the Energy-Transfer Network of a Light-Harvesting Protein Complex. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1240-1245.	4.6	14
26	A continued fraction resummation form of bath relaxation effect in the spin-boson model. <i>Journal of Chemical Physics</i> , 2015, 142, 084103.	3.0	18
27	Higher-order kinetic expansion of quantum dissipative dynamics: Mapping quantum networks to kinetic networks. <i>Journal of Chemical Physics</i> , 2013, 139, 044102.	3.0	30
28	Generic Mechanism of Optimal Energy Transfer Efficiency: A Scaling Theory of the Mean First-Passage Time in Exciton Systems. <i>Physical Review Letters</i> , 2013, 110, 200402.	7.8	66
29	Efficient energy transfer in light-harvesting systems: Quantum-classical comparison, flux network, and robustness analysis. <i>Journal of Chemical Physics</i> , 2012, 137, 174111.	3.0	82
30	Efficient Energy Transfer in Light-Harvesting Systems, III: The Influence of the Eighth Bacteriochlorophyll on the Dynamics and Efficiency in FMO. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 3045-3052.	4.6	123
31	Efficient energy transfer in light-harvesting systems, I: optimal temperature, reorganization energy and spatial-temporal correlations. <i>New Journal of Physics</i> , 2010, 12, 105012.	2.9	172
32	Polarization Selectivity of Third-Order and Fifth-Order Raman Spectroscopies in Liquids and Solids. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9627-9631.	2.5	2
33	High-Order Mode-Coupling Theory for the Colloidal Glass Transition. <i>Physical Review Letters</i> , 2005, 95, 078301.	7.8	42
34	Stability Analysis of Three-Dimensional Colloidal Domains: Quadratic Fluctuations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21342-21349.	2.6	8
35	Structural arrest transitions in fluids described by two Yukawa potentials. <i>Physical Review E</i> , 2004, 70, 050401.	2.1	55
36	East Model: Basis Set Expansion, Mode Coupling, and Irreducible Memory Kernels. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6796-6808.	2.6	5

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37	Gaussian factorization of hydrodynamic correlation functions and mode-coupling memory kernels. <i>Physical Review E</i> , 2003, 67, 061116.	2.1	10
38	Calculations of nonlinear spectra of liquid Xe. I. Third-order Raman response. <i>Journal of Chemical Physics</i> , 2002, 116, 3739-3759.	3.0	34
39	Calculations of nonlinear spectra of liquid Xe. II. Fifth-order Raman response. <i>Journal of Chemical Physics</i> , 2002, 116, 3760-3776.	3.0	48
40	Linear and nonlinear response functions of the Morse oscillator: Classical divergence and the uncertainty principle. <i>Journal of Chemical Physics</i> , 2001, 115, 5381-5391.	3.0	59