Bing Gu

List of Publications by Year
in descending order

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35 papers	557 citations	471061 17 h-index	642321 23 g-index
36 all docs	36 docs citations	36 times ranked	401 citing authors

#	Article	IF	Citations
1	Manipulating nonadiabatic conical intersection dynamics by optical cavities. Chemical Science, 2020, 11, 1290-1298.	3.7	58
2	Generalized Theory for the Timescale of Molecular Electronic Decoherence in the Condensed Phase. Journal of Physical Chemistry Letters, 2018, 9, 773-778.	2.1	36
3	Quantifying Early Time Quantum Decoherence Dynamics through Fluctuations. Journal of Physical Chemistry Letters, 2017, 8, 4289-4294.	2.1	32
4	Cooperative Conical Intersection Dynamics of Two Pyrazine Molecules in an Optical Cavity. Journal of Physical Chemistry Letters, 2020, 11, 5555-5562.	2.1	32
5	Imaging conical intersection dynamics during azobenzene photoisomerization by ultrafast X-ray diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	31
6	Optical-Cavity Manipulation of Conical Intersections and Singlet Fission in Pentacene Dimers. Journal of Physical Chemistry Letters, 2021, 12, 2052-2056.	2.1	30
7	The SchrÃ¶dinger equation with friction from the quantum trajectory perspective. Journal of Chemical Physics, 2013, 138, 054107.	1.2	29
8	Manipulating Two-Photon-Absorption of Cavity Polaritons by Entangled Light. Journal of Physical Chemistry Letters, 2020, 11, 8177-8182.	2.1	25
9	Lessons on electronic decoherence in molecules from exact modeling. Journal of Chemical Physics, 2018, 148, 134304.	1.2	24
10	Quantum Dynamics with Gaussian Bases Defined by the Quantum Trajectories. Journal of Physical Chemistry A, 2016, 120, 3023-3031.	1.1	23
11	Hong-Ou-Mandel interferometry and spectroscopy using entangled photons. Communications Physics, 2021, 4, .	2.0	23
12	When can quantum decoherence be mimicked by classical noise?. Journal of Chemical Physics, 2019, 151, 014109.	1.2	22
13	Investigations of Molecular Optical Properties Using Quantum Light and Hongâ€“Ouâ€“Mandel Interferometry. Journal of the American Chemical Society, 2021, 143, 9070-9081.	6.6	20
14	Estimation of the Ground State Energy of an Atomic Solid by Employing Quantum Trajectory Dynamics with Friction. Journal of Chemical Theory and Computation, 2015, 11, 2891-2899.	2.3	19
15	When can time-dependent currents be reproduced by the Landauer steady-state approximation?. Journal of Chemical Physics, 2017, 146, 174101.	1.2	18
16	Polariton ring currents and circular dichroism of Mg-porphyrin in a chiral cavity. Chemical Science, 2022, 13, 1037-1048.	3.7	18
17	Partial hydrodynamic representation of quantum molecular dynamics. Journal of Chemical Physics, 2017, 146, 194104.	1.2	17
18	Optical absorption properties of laser-driven matter. Physical Review A, 2018, 98, .	1.0	16

#	Article	IF	Citations
19	Manipulating Core Excitations in Molecules by X-Ray Cavities. Physical Review Letters, 2021, 126, 053201.	2.9	13
20	Pillars of assembled pyridyl bis-urea macrocycles: a robust synthon to organize diiodotetrafluorobenzenes. CrystEngComm, 2017, 19, 484-491.	1.3	10
21	Manipulating valence and core electronic excitations of a transition-metal complex using UV/Vis and X-ray cavities. Chemical Science, 2021, 12, 8088-8095.	3.7	9
22	Electronic interactions do not affect electronic decoherence in the pure-dephasing limit. Journal of Chemical Physics, 2018, 149, 174115.	1.2	8
23	Optical Cavity Manipulation and Nonlinear UV Molecular Spectroscopy of Conical Intersections in Pyrazine. Journal of the American Chemical Society, 2022, 144, 7758-7767.	6.6	8
24	Photoisomerization transition state manipulation by entangled two-photon absorption. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
25	Calculation of the Quantum-Mechanical Tunneling in Bound Potentials. Journal of Theoretical Chemistry, 2014, 2014, 1-11.	1.5	6
26	Toward the laser control of electronic decoherence. Journal of Chemical Physics, 2020, 152, 184305.	1.2	6
27	Monitoring Wavepacket Dynamics at Conical Intersections by Entangled Two-Photon Absorption. ACS Photonics, 2022, 9, 1889-1894.	3.2	4
28	Symmetrization of the nuclear wavefunctions defined by the quantum trajectory dynamics. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	3
29	Wave Packet Control and Simulation Protocol for Entangled Two-Photon Absorption of Molecules. Journal of Chemical Theory and Computation, 2022, 18, 406-414.	2.3	3
30	Determination of the collective modes from the quantum-mechanical time-correlation functions. Theoretical Chemistry Accounts, 2015, 134, 1.	0.5	2
31	Diagrammatic time-local master equation for open quantum systems. Physical Review A, 2020, 101, .	1.0	2
32	Photon Correlation Signals in Coupled-Cavity Polaritons Created by Entangled Light. ACS Photonics, 2022, 9, 938-943.	3.2	2
33	Molecular dynamics of large systems with quantum corrections for the nuclei. AIP Conference Proceedings, 2015, , .	0.3	0
34	Manipulating two-photon absorption of cavity polaritons by entangled photon. , 2020, , .		0
35	Optical-Cavity Manipulation of Conical Intersections and Singlet Fission Dynamics. , 2021, , .		0