

# Lipeng Chen

## List of Publications by Year in descending order

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42  
papers

1,005  
citations

331670

21  
h-index

434195

31  
g-index

44  
all docs

44  
docs citations

44  
times ranked

524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of a One-Dimensional Holstein Polaron with the Hierarchical Equations of Motion Approach. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3110-3115.	4.6	66
2	Effect of high-frequency modes on singlet fission dynamics. <i>Journal of Chemical Physics</i> , 2017, 146, 044101.	3.0	61
3	Fast, Accurate Simulation of Polaron Dynamics and Multidimensional Spectroscopy by Multiple Davydov Trial States. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1562-1576.	2.5	60
4	Variational dynamics of the sub-Ohmic spin-boson model on the basis of multiple Davydov D1 states. <i>Journal of Chemical Physics</i> , 2016, 144, 024101.	3.0	57
5	Finite-temperature time-dependent variation with multiple Davydov states. <i>Journal of Chemical Physics</i> , 2017, 146, 124127.	3.0	52
6	Finite temperature dynamics of a Holstein polaron: The thermo-field dynamics approach. <i>Journal of Chemical Physics</i> , 2017, 147, 214102.	3.0	44
7	Polaron dynamics with off-diagonal coupling: beyond the Ehrenfest approximation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1655-1668.	2.8	41
8	Dissipative dynamics at conical intersections: simulations with the hierarchy equations of motion method. <i>Faraday Discussions</i> , 2016, 194, 61-80.	3.2	39
9	Optimal Energy Transfer in Light-Harvesting Systems. <i>Molecules</i> , 2015, 20, 15224-15272.	3.8	38
10	Dynamics of Coupled Electron-Boson Systems with the Multiple Davydov D <sub>1</sub> Ansatz and the Generalized Coherent State. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8757-8770.	2.5	32
11	Multimode quantum dynamics with multiple Davydov D2 trial states: Application to a 24-dimensional conical intersection model. <i>Journal of Chemical Physics</i> , 2019, 150, 024101.	3.0	32
12	Transient dynamics of a one-dimensional Holstein polaron under the influence of an external electric field. <i>Annalen Der Physik</i> , 2017, 529, 1600367.	2.4	31
13	Multi-faceted spectroscopic mapping of ultrafast nonadiabatic dynamics near conical intersections: A computational study. <i>Journal of Chemical Physics</i> , 2020, 153, 174111.	3.0	29
14	Ground-state properties of sub-Ohmic spin-boson model with simultaneous diagonal and off-diagonal coupling. <i>Physical Review B</i> , 2014, 90, .	3.2	27
15	Symmetry and the critical phase of the two-bath spin-boson model: Ground-state properties. <i>Physical Review B</i> , 2015, 91, .	3.2	25
16	Dynamics of the two-spin spin-boson model with a common bath. <i>Journal of Chemical Physics</i> , 2016, 144, 144102.	3.0	25
17	Temperature effects on singlet fission dynamics mediated by a conical intersection. <i>Journal of Chemical Physics</i> , 2020, 153, 194106.	3.0	25
18	Theory of femtosecond coherent double-pump single-molecule spectroscopy: Application to light harvesting complexes. <i>Journal of Chemical Physics</i> , 2015, 142, 164106.	3.0	24



#	ARTICLE	IF	CITATIONS
37	Lamb Shift and the Vacuum Rabi Splitting in a Strongly Dissipative Environment. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9919-9925.	4.6	6
38	Dephasing and Dissipation in a Source-Drain Model of Light-Harvesting Systems. <i>ChemPhysChem</i> , 2014, 15, 2859-2870.	2.1	5
39	Orientalional relaxation of a quantum linear rotor in a dissipative environment: Simulations with the hierarchical equations-of-motion method. <i>Journal of Chemical Physics</i> , 2019, 151, 034101.	3.0	5
40	Monitoring of Nonadiabatic Effects in Individual Chromophores by Femtosecond Double-Pump Single-Molecule Spectroscopy: A Model Study. <i>Molecules</i> , 2019, 24, 231.	3.8	4
41	Simulation of absorption spectra of molecular aggregates: A hierarchy of stochastic pure state approach. <i>Journal of Chemical Physics</i> , 2022, 156, 124109.	3.0	4
42	Hierarchical Equations-of-Motion Method for Momentum System-Bath Coupling. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4863-4873.	2.6	2