Lipeng Chen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7858460/publications.pdf

Version: 2024-02-01

42 1,005 21 31 g-index

papers citations h-index 524

44 44 524 all docs docs citations times ranked citing authors

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

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19	Probing ultrafast excitation energy transfer of the chlorosome with exciton–phonon variational dynamics. Physical Chemistry Chemical Physics, 2016, 18, 20298-20311.	2.8	24
20	Spin-dependent electronic transport properties of zigzag silicon carbon nanoribbon. RSC Advances, 2015, 5, 107136-107141.	3.6	22
21	The hierarchy of Davydov's AnsÃtze and its applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	14.6	22
22	Mapping of Wave Packet Dynamics at Conical Intersections by Time- and Frequency-Resolved Fluorescence Spectroscopy: A Computational Study. Journal of Physical Chemistry Letters, 2019, 10, 5873-5880.	4.6	21
23	Monitoring of singlet fission via two-dimensional photon-echo and transient-absorption spectroscopy: Simulations by multiple Davydov trial states. Journal of Chemical Physics, 2019, 151, 114102 Dynamics of the spin-boson model: A comparison of the multiple Davydov <mml:math< td=""><td>3.0</td><td>20</td></mml:math<>	3.0	20
24	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si45.gif" overflow="scroll"> <mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow>D</mml:msub></mml:mrow> <mml:mrow><mml:mn>1.5</mml:mn></mml:mrow> <td>b> 1.9 b> <mml:n sub> <mml< td=""><td>no ¹⁷,</td></mml<></mml:n </td>	b> 1.9 b> <mml:n sub> <mml< td=""><td>no ¹⁷,</td></mml<></mml:n 	no ¹⁷ ,
25	Mathyariant "normal" D <mm mi=""> Chemical Physics 2018 515 108-118 Ab Initio Surface-Hopping Simulation of Femiosecond Transient-Absorption Pumpâ€"Probe Signals of Nonadiabatic Excited-State Dynamics Using the Doorwayâ€"Window Representation. Journal of Chemical Theory and Computation, 2021, 17, 2394-2408.</mm >	5.3	16
26	Dynamics of a one-dimensional Holstein polaron: The multiconfigurational Ehrenfest method. Journal of Chemical Physics, 2019, 151, 244116.	3.0	15
27	Simulation of Time- and Frequency-Resolved Four-Wave-Mixing Signals at Finite Temperatures: A Thermo-Field Dynamics Approach. Journal of Chemical Theory and Computation, 2021, 17, 4359-4373.	5.3	15
28	Effects of high pulse intensity and chirp in two-dimensional electronic spectroscopy of an atomic vapor. Optics Express, 2020, 28, 25806.	3.4	13
29	Ultrafast dynamics in rubrene and its spectroscopic manifestation. Journal of Chemical Physics, 2020, 153, 174105.	3.0	12
30	Efficient simulation of time- and frequency-resolved four-wave-mixing signals with a multiconfigurational Ehrenfest approach. Journal of Chemical Physics, 2021, 154, 054105.	3.0	12
31	Spectral Fingerprint of Excited-State Energy Transfer in Dendrimers through Polarization-Sensitive Transient-Absorption Pumpâ€"Probe Signals: On-the-Fly Nonadiabatic Dynamics Simulations. Journal of Physical Chemistry Letters, 2021, 12, 9710-9719.	4.6	12
32	Nonperturbative response functions: A tool for the interpretation of four-wave-mixing signals beyond third order. Journal of Chemical Physics, 2017, 147, 234104.	3.0	11
33	Fully Quantum Modeling of Exciton Diffusion in Mesoscale Light Harvesting Systems. Materials, 2021, 14, 3291.	2.9	11
34	Superradiance at the localization-delocalization crossover in tubular chlorosomes. Physical Review E, 2016, 93, 022414.	2.1	10
35	Variational approach to time-dependent fluorescence of a driven qubit. Physical Review A, 2020, 102, .	2.5	10
36	Simulation of Femtosecond Phase-Locked Double-Pump Signals of Individual Light-Harvesting Complexes LH2. Journal of Physical Chemistry Letters, 2018, 9, 4488-4494.	4.6	8

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