# Lipeng Chen

List of Publications by Year
in descending order

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

Version: 2024-02-01

| | | 331670 | 434195 |
|---|---|---|---|
| 42 | 1,005 | 21 | 31 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 44 | 44 | 44 | 524 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Simulation of absorption spectra of molecular aggregates: A hierarchy of stochastic pure state approach. Journal of Chemical Physics, 2022, 156, 124109. | 3.0 | 4 |
| 2 | The hierarchy of Davydov's AnsÃtze and its applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, . | 14.6 | 22 |
| 3 | 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 |
| 4 | Ab Initio Surface-Hopping Simulation of Femtosecond 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. | 5.3 | 16 |
| 5 | Hierarchical Equations-of-Motion Method for Momentum Systemâ€“Bath Coupling. Journal of Physical Chemistry B, 2021, 125, 4863-4873. | 2.6 | 2 |
| 6 | 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 |
| 7 | Fully Quantum Modeling of Exciton Diffusion in Mesoscale Light Harvesting Systems. Materials, 2021, 14, 3291. | 2.9 | 11 |
| 8 | 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 |
| 9 | Lamb Shift and the Vacuum Rabi Splitting in a Strongly Dissipative Environment. Journal of Physical Chemistry Letters, 2021, 12, 9919-9925. | 4.6 | 6 |
| 10 | Temperature effects on singlet fission dynamics mediated by a conical intersection. Journal of Chemical Physics, 2020, 153, 194106. | 3.0 | 25 |
| 11 | Multi-faceted spectroscopic mapping of ultrafast nonadiabatic dynamics near conical intersections: A computational study. Journal of Chemical Physics, 2020, 153, 174111. | 3.0 | 29 |
| 12 | Ultrafast dynamics in rubrene and its spectroscopic manifestation. Journal of Chemical Physics, 2020, 153, 174105. | 3.0 | 12 |
| 13 | Variational approach to time-dependent fluorescence of a driven qubit. Physical Review A, 2020, 102, . | 2.5 | 10 |
| 14 | Effects of high pulse intensity and chirp in two-dimensional electronic spectroscopy of an atomic vapor. Optics Express, 2020, 28, 25806. | 3.4 | 13 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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. | 3.0 | 20 |
| 18 | Monitoring of Nonadiabatic Effects in Individual Chromophores by Femtosecond Double-Pump Single-Molecule Spectroscopy: A Model Study. Molecules, 2019, 24, 231. | 3.8 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dynamics of a one-dimensional Holstein polaron: The multiconfigurational Ehrenfest method. Journal of Chemical Physics, 2019, 151, 244116. | 3.0 | 15 |
| 20 | 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 |
| 21 | 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 |
| 22 | Dynamics of the spin-boson model: A comparison of the multiple Davydov <mml:math 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></mml:msub><mml:mo>,</mml:mo><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mrow><mml:mn>1.5</mml:mn></mml:mrow></mml:msub><mml:mo>,</mml:mo><mml:mi mathvariant="normal">D</mml:mi><. Chemical Physics, 2018, 515, 108-118. | 1.9 | 17 |
| 23 | 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 |
| 24 | Effect of high-frequency modes on singlet fission dynamics. Journal of Chemical Physics, 2017, 146, 044101. | 3.0 | 61 |
| 25 | Finite-temperature time-dependent variation with multiple Davydov states. Journal of Chemical Physics, 2017, 146, 124127. | 3.0 | 52 |
| 26 | Polaron dynamics with off-diagonal coupling: beyond the Ehrenfest approximation. Physical Chemistry Chemical Physics, 2017, 19, 1655-1668. | 2.8 | 41 |
| 27 | Dynamics of Coupled Electronâ€“Boson Systems with the Multiple Davydov D<sub>1</sub> Ansatz and the Generalized Coherent State. Journal of Physical Chemistry A, 2017, 121, 8757-8770. | 2.5 | 32 |
| 28 | Finite temperature dynamics of a Holstein polaron: The thermo-field dynamics approach. Journal of Chemical Physics, 2017, 147, 214102. | 3.0 | 44 |
| 29 | 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 |
| 30 | Dynamics of the two-spin spin-boson model with a common bath. Journal of Chemical Physics, 2016, 144, 144102. | 3.0 | 25 |
| 31 | 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 |
| 32 | Dissipative dynamics at conical intersections: simulations with the hierarchy equations of motion method. Faraday Discussions, 2016, 194, 61-80. | 3.2 | 39 |
| 33 | Superradiance at the localization-delocalization crossover in tubular chlorosomes. Physical Review E, 2016, 93, 022414. | 2.1 | 10 |
| 34 | Probing ultrafast excitation energy transfer of the chlorosome with excitonâ€“phonon variational dynamics. Physical Chemistry Chemical Physics, 2016, 18, 20298-20311. | 2.8 | 24 |
| 35 | 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 |
| 36 | Symmetry and the critical phase of the two-bath spin-boson model: Ground-state properties. Physical Review B, 2015, 91, . | 3.2 | 25 |

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|---|---|---|---|
| 37 | Spin-dependent electronic transport properties of zigzag silicon carbon nanoribbon. RSC Advances, 2015, 5, 107136-107141. | 3.6 | 22 |
| 38 | Optimal Energy Transfer in Light-Harvesting Systems. Molecules, 2015, 20, 15224-15272. | 3.8 | 38 |
| 39 | Theory of femtosecond coherent double-pump single-molecule spectroscopy: Application to light harvesting complexes. Journal of Chemical Physics, 2015, 142, 164106. | 3.0 | 24 |
| 40 | 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 |
| 41 | Dephasing and Dissipation in a Sourceâ€“Drain Model of Lightâ€Harvesting Systems. ChemPhysChem, 2014, 15, 2859-2870. | 2.1 | 5 |
| 42 | Ground-state properties of sub-Ohmic spin-boson model with simultaneous diagonal and off-diagonal coupling. Physical Review B, 2014, 90, . | 3.2 | 27 |