Yang Zhao

List of Publications by Year
in descending order

191 papers	11,430 citations	46918 47 h-index	32761 100 g-index
194 all docs	194 docs citations	194 times ranked	12023 citing authors

#	Article	IF	Citations
1	Surface passivation of perovskite film for efficient solar cells. Nature Photonics, 2019, 13, 460-466.	15.6	3,458
2	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902650.	10.2	516
3	Flexible layer-structured Bi2Te3 thermoelectric on a carbon nanotube scaffold. Nature Materials, 2019, 18, 62-68.	13.3	316
4	Symmetry Breaking of Graphene Monolayers by Molecular Decoration. Physical Review Letters, 2009, 102, 135501.	2.9	224
5	A Preloaded Amorphous Calcium Carbonate/Doxorubicin@Silica Nanoreactor for pHâ€Responsive Delivery of an Anticancer Drug. Angewandte Chemie - International Edition, 2015, 54, 919-922.	7.2	222
6	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. Nature Communications, 2020, 11, 4165.	5.8	217
7	Perovskite Lightâ€Emitting Diodes with External Quantum Efficiency Exceeding 22% via Smallâ€Molecule Passivation. Advanced Materials, 2021, 33, e2007169.	11.1	211
8	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. Advanced Materials, 2019, 31, e1905143.	11.1	202
9	Energy Dissipation Mechanisms in Carbon Nanotube Oscillators. Physical Review Letters, 2003, 91, 175504.	2.9	190
10	Enhanced Thermopower of Graphene Films with Oxygen Plasma Treatment. ACS Nano, 2011, 5, 2749-2755.	7.3	181
11	Synthesis, Structure, and Airâ€stable Nâ€type Fieldâ€Effect Transistor Behaviors of Functionalized Octaazanonaceneâ€8,19â€dione. Angewandte Chemie - International Edition, 2015, 54, 6292-6296.	7.2	143
12	Synthesis and Physical Properties of Four Hexazapentacene Derivatives. Journal of the American Chemical Society, 2012, 134, 20298-20301.	6.6	121
13	Synthesis, Physical Properties, and Anion Recognition of Two Novel Larger Azaacenes: Benzannelated Hexazaheptacene and Benzannelated N,Nâ€²â€Dihydrohexazaheptacene. Chemistry - an Asian Journal, 2013, 8, 1574-1578.	1.7	113
14	Green Preparation of Cellulose Nanocrystal and Its Application. ACS Sustainable Chemistry and Engineering, 2018, 6, 2954-2960.	3.2	104
15	A versatile method for producing functionalized cellulose nanofibers and their application. Nanoscale, 2016, 8, 3753-3759.	2.8	98
16	Flexible double-cross-linked cellulose-based hydrogel and aerogel membrane for supercapacitor separator. Journal of Materials Chemistry A, 2018, 6, 24468-24478.	5.2	98
17	A Unique Blend of 2â€Fluorenylâ€2â€anthracene and 2â€Anthrylâ€2â€anthracence Showing White Emission and High Charge Mobility. Angewandte Chemie - International Edition, 2017, 56, 722-727.	7.2	94
18	Composition and Interface Engineering for Efficient and Thermally Stable Pbâ€“Sn Mixed Lowâ€Bandgap Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1804603.	7.8	87

#	Article	IF	Citations
19	Double [4 + 2] Cycloaddition Reaction To Approach a Large Acene with Even-Number Linearly Fused Benzene Rings: 6,9,16,19-Tetraphenyl-1.20,4.5,10.11,14.15-Tetrabenzooctatwistacene. Journal of Organic Chemistry, 2015, 80, 109-113.	1.7	86
20	Equilibrium-reduced density matrix formulation: Influence of noise, disorder, and temperature on localization in excitonic systems. Physical Review B, 2012, 85, .	1.1	85
21	Cellulose Fiber-Based Hierarchical Porous Bismuth Telluride for High-Performance Flexible and Tailorable Thermoelectrics. ACS Applied Materials & Interfaces, 2018, 10, 1743-1751.	4.0	85
22	Synergistic Effect of Mesoporous Co₃O₄Nanowires Confined by N-Doped Graphene Aerogel for Enhanced Lithium Storage. Small, 2016, 12, 3849-3860.	5.2	80
23	A tribological study of double-walled and triple-walled carbon nanotube oscillators. Nanotechnology, 2005, 16, 1253-1264.	1.3	79
24	Activated carbon from nitrogen rich watermelon rind for high-performance supercapacitors. RSC Advances, 2016, 6, 59333-59342.	1.7	79
25	Thin Cellulose Nanofiber from Corncob Cellulose and Its Performance in Transparent Nanopaper. ACS Sustainable Chemistry and Engineering, 2017, 5, 2529-2534.	3.2	79
26	Superradiance Coherence Sizes in Single-Molecule Spectroscopy of LH2 Antenna Complexes. Journal of Physical Chemistry B, 1999, 103, 3954-3962.	1.2	74
27	A Unique Blend of 2â€Fluorenylâ€2â€anthracene and 2â€Anthrylâ€2â€anthracence Showing White Emission and High Charge Mobility. Angewandte Chemie, 2017, 129, 740-745.	1.6	70
28	Molecule-Based Water-Oxidation Catalysts (WOCs): Cluster-Size-Dependent Dye-Sensitized Polyoxometalates for Visible-Light-Driven O2 Evolution. Scientific Reports, 2013, 3, 1853.	1.6	69
29	Stabilizing Î³â€CsPbI₃ Perovskite via Phenylethylammonium for Efficient Solar Cells with Openâ€Circuit Voltage over 1.3ÂV. Small, 2020, 16, e2005246.	5.2	67
30	Dynamics of a One-Dimensional Holstein Polaron with the Hierarchical Equations of Motion Approach. Journal of Physical Chemistry Letters, 2015, 6, 3110-3115.	2.1	66
31	Dynamics of a one-dimensional Holstein polaron with the Davydov ansÃtze. Physical Review B, 2010, 82, .	1.1	63
32	Polaron dynamics with a multitude of Davydov D2 trial states. Journal of Chemical Physics, 2015, 143, 014113.	1.2	63
33	On the Munnâ€“Silbey approach to nonlocal excitonâ€“phonon coupling. Journal of Chemical Physics, 1994, 100, 2335-2345.	1.2	62
34	Variational energy band theory for polarons: Mapping polaron structure with the Toyozawa method. Journal of Chemical Physics, 1997, 107, 3159-3178.	1.2	62
35	Variational energy band theory for polarons: Mapping polaron structure with the global-local method. Journal of Chemical Physics, 1997, 107, 3179-3195.	1.2	62
36	Effect of high-frequency modes on singlet fission dynamics. Journal of Chemical Physics, 2017, 146, 044101.	1.2	61

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37	Fast, Accurate Simulation of Polaron Dynamics and Multidimensional Spectroscopy by Multiple Davydov Trial States. Journal of Physical Chemistry A, 2016, 120, 1562-1576.	1.1	60
38	Non-radiative relaxation of photoexcited chlorophylls: theoretical and experimental study. Scientific Reports, 2015, 5, 13625.	1.6	58
39	Density functional theory analysis of dopants in cupric oxide. Journal of Applied Physics, 2012, 111, .	1.1	57
40	Variational dynamics of the sub-Ohmic spin-boson model on the basis of multiple Davydov D1 states. Journal of Chemical Physics, 2016, 144, 024101.	1.2	57
41	Excitonic energy transfer in light-harvesting complexes in purple bacteria. Journal of Chemical Physics, 2012, 136, 245104.	1.2	56
42	QM/MM Modeling of Environmental Effects on Electronic Transitions of the FMO Complex. Journal of Physical Chemistry B, 2013, 117, 3488-3495.	1.2	52
43	Finite-temperature time-dependent variation with multiple Davydov states. Journal of Chemical Physics, 2017, 146, 124127.	1.2	52
44	Atomically Flat, Largeâ€Sized, Twoâ€Dimensional Organic Nanocrystals. Small, 2013, 9, 990-995.	5.2	51
45	Dimension-Tunable Circularly Polarized Luminescent Nanoassemblies with Emerging Selective Chirality and Energy Transfer. ACS Nano, 2020, 14, 2373-2384.	7.3	51
46	Low-lying excited states of light-harvesting system II in purple bacteria. Physical Review E, 2004, 69, 032902.	0.8	49
47	On the Munnâ'Silbey Approach to Polaron Transport with Off-Diagonal Coupling and Temperature-Dependent Canonical Transformations. Journal of Physical Chemistry B, 2011, 115, 5312-5321.	1.2	47
48	Variational energy band theory for polarons: Mapping polaron structure with the Merrifield method. Journal of Chemical Physics, 1997, 106, 5622-5630.	1.2	46
49	Dynamic friction force in a carbon peapod oscillator. Nanotechnology, 2006, 17, 5691-5695.	1.3	46
50	Validity of time-dependent trial states for the Holstein polaron. Physical Chemistry Chemical Physics, 2010, 12, 15073.	1.3	46
51	Recent Progress in Highâ€efficiency Planarâ€structure Perovskite Solar Cells. Energy and Environmental Materials, 2019, 2, 93-106.	7.3	45
52	Tight binding description on the band gap opening of pyrene-dispersed graphene. Physical Chemistry Chemical Physics, 2011, 13, 1515-1520.	1.3	44
53	Finite temperature dynamics of a Holstein polaron: The thermo-field dynamics approach. Journal of Chemical Physics, 2017, 147, 214102.	1.2	44
54	Dye-sensitized polyoxometalate for visible-light-driven photoelectrochemical cells. Dalton Transactions, 2015, 44, 14354-14358.	1.6	43

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55	Polaron dynamics in two-dimensional photon-echo spectroscopy of molecular rings. Journal of Chemical Physics, 2013, 139, 104103.	1.2	42
56	Polaron dynamics with off-diagonal coupling: beyond the Ehrenfest approximation. Physical Chemistry Chemical Physics, 2017, 19, 1655-1668.	1.3	41
57	Tailoring Nanoporous Structures in Bi₂Te₃ Thin Films for Improved Thermoelectric Performance. ACS Applied Materials & Interfaces, 2019, 11, 38075-38083.	4.0	41
58	Stabilizing the black phase of cesium lead halide inorganic perovskite for efficient solar cells. Science China Chemistry, 2019, 62, 810-821.	4.2	40
59	Modulation of Electronic Structure of Armchair MoS₂ Nanoribbon. Journal of Physical Chemistry C, 2015, 119, 22164-22171.	1.5	39
60	Dissipative dynamics at conical intersections: simulations with the hierarchy equations of motion method. Faraday Discussions, 2016, 194, 61-80.	1.6	39
61	A variational approach to nonlocal excitonâ€“phonon coupling. Journal of Chemical Physics, 1997, 106, 2728-2740.	1.2	38
62	Power Factor Enhancement for Few-Layered Graphene Films by Molecular Attachments. Journal of Physical Chemistry C, 2011, 115, 1780-1785.	1.5	38
63	Optimal Energy Transfer in Light-Harvesting Systems. Molecules, 2015, 20, 15224-15272.	1.7	38
64	Grooving the carbon nanotube oscillators. Applied Physics Letters, 2006, 88, 183107.	1.5	37
65	Compressed hydrogen gas-induced synthesis of Auâ€“Pt coreâ€“shell nanoparticle chains towards high-performance catalysts for Liâ€“O₂ batteries. Journal of Materials Chemistry A, 2014, 2, 10676-10681.	5.2	37
66	Davydov Ansatz as an efficient tool for the simulation of nonlinear optical response of molecular aggregates. Journal of Chemical Physics, 2015, 142, 212448.	1.2	37
67	Dynamics of the sub-Ohmic spin-boson model: A comparison of three numerical approaches. Physical Review E, 2013, 88, 023303.	0.8	35
68	Influence of heteroatoms on the charge mobility of anthracene derivatives. Journal of Materials Chemistry C, 2016, 4, 3517-3522.	2.7	34
69	Effect of Off-Diagonal Excitonâ€“Phonon Coupling on Intramolecular Singlet Fission. Journal of Physical Chemistry Letters, 2017, 8, 3306-3312.	2.1	34
70	Dynamics of the sub-Ohmic spin-boson model: A time-dependent variational study. Journal of Chemical Physics, 2013, 138, 084111.	1.2	33
71	Emerging Lowâ€Dimensional Crystal Structure of Metal Halide Perovskite Optoelectronic Materials and Devices. Small Structures, 2021, 2, 2000133.	6.9	33
72	Experimental and theoretical studies on pyrene-grafted polyoxometalate hybrid. Dalton Transactions, 2012, 41, 12185.	1.6	32

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73	Dynamics of Coupled Electronâ€“Boson Systems with the Multiple Davydov D₁ Ansatz and the Generalized Coherent State. Journal of Physical Chemistry A, 2017, 121, 8757-8770.	1.1	32
74	Transient dynamics of a oneâ€dimensional Holstein polaron under the influence of an external electric field. Annalen Der Physik, 2017, 529, 1600367.	0.9	31
75	Quantum entanglement and the self-trapping transition in polaronic systems. Physical Review B, 2004, 70, .	1.1	30
76	Internal Conversion and Vibrational Energy Redistribution in Chlorophyll A. Journal of Physical Chemistry B, 2016, 120, 49-58.	1.2	30
77	Photoinduced Intra- and Intermolecular Energy Transfer in ChlorophyllaDimer. Journal of Physical Chemistry B, 2017, 121, 5331-5339.	1.2	30
78	Dynamics of dissipative Landau-Zener transitions. Physical Review A, 2018, 97, .	1.0	30
79	Synthesis and Properties of a Diazopentacene Analogue. Asian Journal of Organic Chemistry, 2012, 1, 346-351.	1.3	29
80	Are Adenine Strands Helical H-Aggregates?. Journal of Physical Chemistry B, 2007, 111, 11812-11816.	1.2	28
81	Vibrationally Resolved Absorption and Emission Spectra of Rubrene Multichromophores: Temperature and Aggregation Effects. Journal of Physical Chemistry A, 2009, 113, 12847-12856.	1.1	28
82	Investigation of Structured Green-Band Emission and Electronâ^'Phonon Interactions in Vertically Aligned ZnO Nanowires. Journal of Physical Chemistry C, 2010, 114, 17889-17893.	1.5	27
83	Dynamics of a Holstein polaron with off-diagonal coupling. Journal of Chemical Physics, 2012, 137, 084113.	1.2	27
84	Ground-state properties of sub-Ohmic spin-boson model with simultaneous diagonal and off-diagonal coupling. Physical Review B, 2014, 90, .	1.1	27
85	In Situ Integration of Anisotropic SnO₂ Heterostructures inside Three-Dimensional Graphene Aerogel for Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 26085-26093.	4.0	27
86	Generalized rotating-wave approximation to biased qubit-oscillator systems. Physical Review A, 2013, 87, .	1.0	25
87	Symmetry and the critical phase of the two-bath spin-boson model: Ground-state properties. Physical Review B, 2015, 91, .	1.1	25
88	A ring-closure method for preparing cyclic polymers from unconjugated vinyl monomers. Polymer Chemistry, 2015, 6, 6659-6663.	1.9	25
89	Dynamics of the two-spin spin-boson model with a common bath. Journal of Chemical Physics, 2016, 144, 144102.	1.2	25
90	Temperature effects on singlet fission dynamics mediated by a conical intersection. Journal of Chemical Physics, 2020, 153, 194106.	1.2	25

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91	Theory of femtosecond coherent double-pump single-molecule spectroscopy: Application to light harvesting complexes. Journal of Chemical Physics, 2015, 142, 164106.	1.2	24
92	Probing ultrafast excitation energy transfer of the chlorosome with excitonâ€“phonon variational dynamics. Physical Chemistry Chemical Physics, 2016, 18, 20298-20311.	1.3	24
93	Disorder and coercivity in magnetic particle systems. Journal of Magnetism and Magnetic Materials, 1992, 114, 329-335.	1.0	23
94	Theoretical study of one-photon and two-photon absorption properties of perylene tetracarboxylic derivatives. Journal of Chemical Physics, 2008, 129, 014301.	1.2	23
95	An improved variational approach to off-diagonal exciton-phonon coupling. Journal of Chemical Physics, 2008, 129, 124114.	1.2	23
96	N-Heteroheptacenequinone and N-heterononacenequinone: synthesis, physical properties, crystal structures and photoelectrochemical behaviors. Journal of Materials Chemistry C, 2015, 3, 9877-9884.	2.7	23
97	Dynamics of disordered Tavisâ€“Cummings and Holsteinâ€“Tavisâ€“Cummings models. Journal of Chemical Physics, 2022, 156, 024102.	1.2	23
98	Variational study of polaron dynamics with the Davydov AnsÃtze. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 70-73.	0.8	22
99	Entanglement dynamics of two qubits coupled individually to Ohmic baths. Journal of Chemical Physics, 2013, 139, 044115.	1.2	22
100	Role of Formation of Statistical Aggregates in Chlorophyll Fluorescence Concentration Quenching. Journal of Physical Chemistry B, 2013, 117, 3976-3982.	1.2	22
101	Applications of neural networks to the simulation of dynamics of open quantum systems. Chemical Physics, 2018, 515, 272-278.	0.9	22
102	The hierarchy of Davydov's AnsÃtze and its applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	6.2	22
103	Micromagnetic modeling of magnetic anisotropy in textured thinâ€film media. Journal of Applied Physics, 1995, 77, 6411-6415.	1.1	21
104	Synthesis and Electronâ^'Phonon Interactions of Ce³⁺-Doped YAG Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 5974-5979.	1.5	21
105	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.	2.1	21
106	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.	1.2	20
107	Energy exchanges in carbon nanotube oscillators. Nanotechnology, 2006, 17, 1032-1035.	1.3	19
108	Self-trapping of polarons with off-diagonal coupling. Physical Review B, 2009, 79, .	1.1	19

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109	Theoretical study of solvent effect on one- and two-photon absorption properties of starburst DCM derivatives. Physical Chemistry Chemical Physics, 2009, 11, 11538.	1.3	19
110	Antistatic PVC-graphene Composite through Plasticizer-mediated Exfoliation of Graphite. Chinese Journal of Polymer Science (English Edition), 2018, 36, 1361-1367.	2.0	19
111	Delocalized Davydov D1 Ansatz for the Holstein polaron. Journal of Chemical Physics, 2013, 138, 174116.	1.2	18
112	Davydov-Ansatz for Landau-Zener-Stueckelberg-Majorana transitions in an environment: Tuning the survival probability via number state excitation. Journal of Chemical Physics, 2019, 150, 234109.	1.2	18
113	Flexible silver nanowire transparent conductive films prepared by an electrostatic adsorption self-assembly process. Journal of Materials Science, 2019, 54, 5802-5812.	1.7	18
114	Trans-phonon effects in ultra-fast nanodevices. Nanotechnology, 2008, 19, 255705.	1.3	17
115	Thermal-gradient-induced interaction energy ramp and actuation of relative axial motion in short-sleeved double-walled carbon nanotubes. Nanotechnology, 2011, 22, 485702.	1.3	17
116	Path induced coherent energy transfer in light-harvesting complexes in purple bacteria. Journal of Chemical Physics, 2014, 141, 124103.	1.2	17
117	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:msub><mml:mrow><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:msub><mml:mrow><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mrow><mml:mi></mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Ansätze. Chemical Physics, 2018, 515, 108-118.	0.9	17
118	Alkalineâ€Earth Metal Ion Turnâ€On Circularly Polarized Luminescence and Encrypted Selective Recognition of AMP. Small Methods, 2020, 4, 2000493.	4.6	17
119	SchrÃ¶dinger-Cat States in Landauâ€“Zenerâ€“StÃ¼ckelbergâ€“Majorana Interferometry: A Multiple Davydov Ansatz Approach. Journal of Physical Chemistry B, 2021, 125, 3184-3196.	1.2	17
120	Absence of collapse in quantum Rabi oscillations. Physical Review A, 2014, 90, .	1.0	16
121	A novel Dâ€“ Ïˆ â€“A small molecule with N -heteroacene as acceptor moiety for photovoltaic application. Dyes and Pigments, 2015, 122, 231-237.	2.0	16
122	Theoretical Examination of Long-Range Energy Propagation in Nano-Engineered Light-Harvesting Antenna Arrays. Journal of Physical Chemistry C, 2012, 116, 3747-3756.	1.5	15
123	â€œDopingâ€•pentacene with sp²-phosphorus atoms: towards high performance ambipolar semiconductors. Physical Chemistry Chemical Physics, 2016, 18, 3173-3178.	1.3	15
124	A Flexible and Infrared-Transparent Bi₂Te₃-Carbon Nanotube Thermoelectric Hybrid for both Active and Passive Cooling. ACS Applied Electronic Materials, 2020, 2, 3008-3016.	2.0	15
125	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.	2.3	15
126	Photon-assisted Landauâ€“Zener transitions in a periodically driven Rabi dimer coupled to a dissipative mode. Journal of Chemical Physics, 2021, 154, 044102.	1.2	15

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127	Low-Lying Excited States of Light-Harvesting System II in Purple Bacteria. Journal of Physical Chemistry B, 2003, 107, 9589-9600.	1.2	14
128	Width of Phonon Sidebands in the Brownian Oscillator Model. Journal of Physical Chemistry B, 2009, 113, 5897-5904.	1.2	14
129	Applications of neural networks to dynamics simulation of Landau-Zener transitions. Chemical Physics, 2020, 528, 110509.	0.9	14
130	Global-local ansatz and dynamical coherent potential approximation study of off-diagonal exciton-phonon coupling. Physical Review B, 2009, 79, .	1.1	13
131	Communication: Spin-boson model with diagonal and off-diagonal coupling to two independent baths: Ground-state phase transition in the deep sub-Ohmic regime. Journal of Chemical Physics, 2014, 140, 161105.	1.2	13
132	A variational master equation approach to quantum dynamics with off-diagonal coupling in a sub-Ohmic environment. Journal of Chemical Physics, 2016, 144, 204106.	1.2	13
133	Reduced density matrix and combined dynamics of electrons and nuclei. Journal of Chemical Physics, 2000, 113, 4016-4027.	1.2	12
134	Analyzing the Optical Properties of a Conjugated Polymer by the Multimode Brownian Oscillator Model. Journal of Physical Chemistry A, 2010, 114, 504-508.	1.1	12
135	Sub-Ohmic spin-boson model with off-diagonal coupling: Ground state properties. Journal of Chemical Physics, 2013, 139, 164103.	1.2	12
136	Competition between diagonal and off-diagonal coupling gives rise to charge-transfer states in polymeric solar cells. Scientific Reports, 2015, 5, 14555.	1.6	12
137	Quantifying non-Markovianity for a chromophoreâ€“qubit pair in a super-Ohmic bath. Physical Chemistry Chemical Physics, 2015, 17, 8087-8096.	1.3	12
138	Ultrafast dynamics in rubrene and its spectroscopic manifestation. Journal of Chemical Physics, 2020, 153, 174105.	1.2	12
139	Efficient simulation of time- and frequency-resolved four-wave-mixing signals with a multiconfigurational Ehrenfest approach. Journal of Chemical Physics, 2021, 154, 054105.	1.2	12
140	Resonant energy transfer assisted by off-diagonal coupling. Journal of Chemical Physics, 2012, 136, 124513.	1.2	11
141	Dynamics of a two-level system under the simultaneous influence of a spin bath and a boson bath. Journal of Chemical Physics, 2013, 139, 054118.	1.2	11
142	Exotic fluorescence spectrum of a superconducting qubit driven simultaneously by longitudinal and transversal fields. Physical Review A, 2016, 93, .	1.0	11
143	Generalization of the Davydov Ansatz by squeezing. Chemical Physics, 2016, 481, 99-107.	0.9	11
144	Direct evaluation of boson dynamics via finite-temperature time-dependent variation with multiple Davydov states. Journal of Chemical Physics, 2017, 147, 234107.	1.2	11

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145	Transient Dynamics of Super Bloch Oscillations of a 1D Holstein Polaron under the Influence of an External AC Electric Field. Annalen Der Physik, 2019, 531, 1800303.	0.9	11
146	Dissipative dynamics in a tunable Rabi dimer with periodic harmonic driving. Journal of Chemical Physics, 2019, 150, 184116.	1.2	11
147	Fully Quantum Modeling of Exciton Diffusion in Mesoscale Light Harvesting Systems. Materials, 2021, 14, 3291.	1.3	11
148	A theoretical study on magnesium ionâ€“selective two-photon fluorescent probe based on benzo [h] chromene derivatives. Theoretical Chemistry Accounts, 2011, 130, 61-68.	0.5	10
149	Exciton dissociation in the presence of phonons: A reduced hierarchy equations of motion approach. Journal of Chemical Physics, 2014, 140, 104113.	1.2	10
150	Study of Electronic Structures and Pigmentâ€“Protein Interactions in the Reaction Center of Thermochromatium tepidum with a Dynamic Environment. Journal of Physical Chemistry B, 2016, 120, 10046-10058.	1.2	10
151	Superradiance at the localization-delocalization crossover in tubular chlorosomes. Physical Review E, 2016, 93, 022414.	0.8	10
152	Variational approach to time-dependent fluorescence of a driven qubit. Physical Review A, 2020, 102, .	1.0	10
153	Theoretical study of one- and two-photon absorption properties of pyrene derivatives. Theoretical Chemistry Accounts, 2011, 128, 265-274.	0.5	9
154	Variational Study of the Twoâ€Impurity Spinâ€“Boson Model with a Common Ohmic Bath: Groundâ€State Phase Transitions. Annalen Der Physik, 2018, 530, 1800120.	0.9	9
155	Dynamics of coherence, localization and excitation transfer in disordered nanorings. Physical Chemistry Chemical Physics, 2017, 19, 25996-26013.	1.3	9
156	Accurate Simulation of Spectroscopic Signatures of Cavity-Assisted, Conical-Intersection-Controlled Singlet Fission Processes. Journal of Physical Chemistry Letters, 2022, 13, 4280-4288.	2.1	9
157	Quasi-Reversible Energy Flows in Carbon-Nanotube Oscillators. Journal of Computational and Theoretical Nanoscience, 2006, 3, 852-856.	0.4	8
158	Sustained smooth dynamics in short-sleeved nanobearings based on double-walled carbon nanotubes. Nanotechnology, 2010, 21, 495303.	1.3	8
159	A variational surface hopping algorithm for the sub-Ohmic spin-boson model. Journal of Chemical Physics, 2013, 139, 014102.	1.2	8
160	Optimization of exciton currents in photosynthetic systems. Journal of Chemical Physics, 2013, 138, 115102.	1.2	8
161	Simulation of Femtosecond Phase-Locked Double-Pump Signals of Individual Light-Harvesting Complexes LH2. Journal of Physical Chemistry Letters, 2018, 9, 4488-4494.	2.1	8
162	Singlet fission dynamics and optical spectra of pentacene and its derivatives. Physical Chemistry Chemical Physics, 2021, 23, 12654-12667.	1.3	8

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163	A Deepâ€Learning Approach to the Dynamics of Landauâ€“Zenner Transitions. Advanced Theory and Simulations, 2021, 4, 2100083.	1.3	8
164	Size Dependence and Spatial Variation of Electronic Structure in Nonpolar ZnO Nanobelts. Journal of Physical Chemistry C, 2009, 113, 4804-4808.	1.5	7
165	Multimode vibronic spectra of the Holstein molecular crystal model. Physical Chemistry Chemical Physics, 2010, 12, 6045.	1.3	7
166	Coercivity control in finite arrays of magnetic particles. Journal of Applied Physics, 2011, 110, 103908.	1.1	7
167	Polaronic discontinuities induced by off-diagonal coupling. Journal of Chemical Physics, 2012, 137, 034108.	1.2	7
168	Ansatz for the quantum phase transition in a dissipative two-qubit system. Physical Review E, 2015, 91, 062115.	0.8	7
169	Optical and transport properties of single crystal rubrene: A theoretical study. Chemical Physics, 2016, 481, 198-205.	0.9	7
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