

Yang Zhao

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192
papers

8,153
citations

43
h-index

84
g-index

194
ext. papers

9,729
ext. citations

5.3
avg, IF

6.53
L-index

#	Paper	IF	Citations
192	Surface passivation of perovskite film for efficient solar cells. <i>Nature Photonics</i> , 2019 , 13, 460-466	33.9	2262
191	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902650	21.8	283
190	Symmetry breaking of graphene monolayers by molecular decoration. <i>Physical Review Letters</i> , 2009 , 102, 135501	7.4	213
189	Flexible layer-structured BiTe thermoelectric on a carbon nanotube scaffold. <i>Nature Materials</i> , 2019 , 18, 62-68	27	188
188	A preloaded amorphous calcium carbonate/doxorubicin@silica nanoreactor for pH-responsive delivery of an anticancer drug. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 919-22	16.4	185
187	Energy dissipation mechanisms in carbon nanotube oscillators. <i>Physical Review Letters</i> , 2003 , 91, 175504	7.4	179
186	Enhanced thermopower of graphene films with oxygen plasma treatment. <i>ACS Nano</i> , 2011 , 5, 2749-55	16.7	162
185	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. <i>Advanced Materials</i> , 2019 , 31, e1905143	24	138
184	Synthesis, Structure, and Air-stable N-type Field-Effect Transistor Behaviors of Functionalized Octaazanonacene-8,19-dione. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6292-6	16.4	134
183	Synthesis and physical properties of four hexazapentacene derivatives. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20298-301	16.4	113
182	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 4165	17.4	113
181	Synthesis, physical properties, and anion recognition of two novel larger azaacenes: benzannelated hexazaheptacene and benzannelated N,N'-dihydrohexazaheptacene. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1574-8	4.5	102
180	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. <i>Journal of Organic Chemistry</i> , 2015 , 80, 109-13	4.2	79
179	Perovskite Light-Emitting Diodes with External Quantum Efficiency Exceeding 22% via Small-Molecule Passivation. <i>Advanced Materials</i> , 2021 , 33, e2007169	24	77
178	A tribological study of double-walled and triple-walled carbon nanotube oscillators. <i>Nanotechnology</i> , 2005 , 16, 1253-1264	3.4	74
177	A versatile method for producing functionalized cellulose nanofibers and their application. <i>Nanoscale</i> , 2016 , 8, 3753-9	7.7	73
176	Equilibrium-reduced density matrix formulation: Influence of noise, disorder, and temperature on localization in excitonic systems. <i>Physical Review B</i> , 2012 , 85,	3.3	72

175	Superradiance Coherence Sizes in Single-Molecule Spectroscopy of LH2 Antenna Complexes. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3954-3962	3.4	72
174	Synergistic Effect of Mesoporous Co ₃ O ₄ Nanowires Confined by N-Doped Graphene Aerogel for Enhanced Lithium Storage. <i>Small</i> , 2016 , 12, 3849-60	11	70
173	Green Preparation of Cellulose Nanocrystal and Its Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2954-2960	8.3	67
172	A Unique Blend of 2-Fluorenyl-2-anthracene and 2-Anthryl-2-anthracene Showing White Emission and High Charge Mobility. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 722-727	16.4	66
171	Molecule-based water-oxidation catalysts (WOCs): cluster-size-dependent dye-sensitized polyoxometalates for visible-light-driven O ₂ evolution. <i>Scientific Reports</i> , 2013 , 3, 1853	4.9	64
170	Composition and Interface Engineering for Efficient and Thermally Stable PbSn Mixed Low-Bandgap Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1804603	15.6	62
169	Flexible double-cross-linked cellulose-based hydrogel and aerogel membrane for supercapacitor separator. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24468-24478	13	61
168	Variational energy band theory for polarons: Mapping polaron structure with the global-local method. <i>Journal of Chemical Physics</i> , 1997 , 107, 3179-3195	3.9	60
167	Variational energy band theory for polarons: Mapping polaron structure with the Toyozawa method. <i>Journal of Chemical Physics</i> , 1997 , 107, 3159-3178	3.9	59
166	Activated carbon from nitrogen rich watermelon rind for high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 59333-59342	3.7	57
165	On the Munnillbey approach to nonlocal exciton-phonon coupling. <i>Journal of Chemical Physics</i> , 1994 , 100, 2335-2345	3.9	57
164	Cellulose Fiber-Based Hierarchical Porous Bismuth Telluride for High-Performance Flexible and Tailorable Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1743-1751	9.5	56
163	Dynamics of a One-Dimensional Holstein Polaron with the Hierarchical Equations of Motion Approach. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3110-5	6.4	53
162	Dynamics of a one-dimensional Holstein polaron with the Davydov ansatz. <i>Physical Review B</i> , 2010 , 82,	3.3	53
161	Effect of high-frequency modes on singlet fission dynamics. <i>Journal of Chemical Physics</i> , 2017 , 146, 044101	10.1	52
160	Polaron dynamics with a multitude of Davydov D ₂ trial states. <i>Journal of Chemical Physics</i> , 2015 , 143, 014113	3.9	52
159	Thin Cellulose Nanofiber from Corncob Cellulose and Its Performance in Transparent Nanopaper. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2529-2534	8.3	51
158	Excitonic energy transfer in light-harvesting complexes in purple bacteria. <i>Journal of Chemical Physics</i> , 2012 , 136, 245104	3.9	50

- 157 Low-lying excited states of light-harvesting system II in purple bacteria. *Physical Review E*, **2004**, 69, 032902 49
- 156 QM/MM modeling of environmental effects on electronic transitions of the FMO complex. *Journal of Physical Chemistry B*, **2013**, 117, 3488-95 3.4 46
- 155 Fast, Accurate Simulation of Polaron Dynamics and Multidimensional Spectroscopy by Multiple Davydov Trial States. *Journal of Physical Chemistry A*, **2016**, 120, 1562-76 2.8 45
- 154 Atomically flat, large-sized, two-dimensional organic nanocrystals. *Small*, **2013**, 9, 990-5 11 45
- 153 Density functional theory analysis of dopants in cupric oxide. *Journal of Applied Physics*, **2012**, 111, 103708 44
- 152 Variational dynamics of the sub-Ohmic spin-boson model on the basis of multiple Davydov D1 states. *Journal of Chemical Physics*, **2016**, 144, 024101 3.9 44
- 151 Variational energy band theory for polarons: Mapping polaron structure with the Merrifield method. *Journal of Chemical Physics*, **1997**, 106, 5622-5630 3.9 43
- 150 Dynamic friction force in a carbon peapod oscillator. *Nanotechnology*, **2006**, 17, 5691-5695 3.4 43
- 149 On the Munn-Silbey approach to polaron transport with off-diagonal coupling and temperature-dependent canonical transformations. *Journal of Physical Chemistry B*, **2011**, 115, 5312-21 3.4 42
- 148 Validity of time-dependent trial states for the Holstein polaron. *Physical Chemistry Chemical Physics*, **2010**, 12, 15073-84 3.6 41
- 147 Finite-temperature time-dependent variation with multiple Davydov states. *Journal of Chemical Physics*, **2017**, 146, 124127 3.9 40
- 146 Polaron dynamics in two-dimensional photon-echo spectroscopy of molecular rings. *Journal of Chemical Physics*, **2013**, 139, 104103 3.9 40
- 145 Non-radiative relaxation of photoexcited chlorophylls: theoretical and experimental study. *Scientific Reports*, **2015**, 5, 13625 4.9 39
- 144 Dye-sensitized polyoxometalate for visible-light-driven photoelectrochemical cells. *Dalton Transactions*, **2015**, 44, 14354-8 4.3 37
- 143 Polaron dynamics with off-diagonal coupling: beyond the Ehrenfest approximation. *Physical Chemistry Chemical Physics*, **2017**, 19, 1655-1668 3.6 36
- 142 A variational approach to nonlocal exciton-phonon coupling. *Journal of Chemical Physics*, **1997**, 106, 2728-2740 3.7 36
- 141 Grooving the carbon nanotube oscillators. *Applied Physics Letters*, **2006**, 88, 183107 3.4 35
- 140 Compressed hydrogen gas-induced synthesis of AuPt core-shell nanoparticle chains towards high-performance catalysts for LiO₂ batteries. *Journal of Materials Chemistry A*, **2014**, 2, 10676-10681 13 32

139	Power Factor Enhancement for Few-Layered Graphene Films by Molecular Attachments. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1780-1785	3.8	32
138	Davydov Ansatz as an efficient tool for the simulation of nonlinear optical response of molecular aggregates. <i>Journal of Chemical Physics</i> , 2015 , 142, 212448	3.9	31
137	Dynamics of the sub-Ohmic spin-boson model: a comparison of three numerical approaches. <i>Physical Review E</i> , 2013 , 88, 023303	2.4	31
136	Tight binding description on the band gap opening of pyrene-dispersed graphene. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1515-20	3.6	31
135	Dissipative dynamics at conical intersections: simulations with the hierarchy equations of motion method. <i>Faraday Discussions</i> , 2016 , 194, 61-80	3.6	31
134	Experimental and theoretical studies on pyrene-grafted polyoxometalate hybrid. <i>Dalton Transactions</i> , 2012 , 41, 12185-91	4.3	30
133	Dynamics of the sub-Ohmic spin-boson model: a time-dependent variational study. <i>Journal of Chemical Physics</i> , 2013 , 138, 084111	3.9	30
132	Modulation of Electronic Structure of Armchair MoS Nanoribbon. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22164-22171	3.8	29
131	Influence of heteroatoms on the charge mobility of anthracene derivatives. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3517-3522	7.1	29
130	Recent Progress in High-efficiency Planar-structure Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2019 , 2, 93-106	13	29
129	Effect of Off-Diagonal Exciton-Phonon Coupling on Intramolecular Singlet Fission. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3306-3312	6.4	29
128	Finite temperature dynamics of a Holstein polaron: The thermo-field dynamics approach. <i>Journal of Chemical Physics</i> , 2017 , 147, 214102	3.9	29
127	Synthesis, Structure, and Air-stable N-type Field-Effect Transistor Behaviors of Functionalized Octaazanonacene-8,19-dione. <i>Angewandte Chemie</i> , 2015 , 127, 6390-6394	3.6	28
126	Synthesis and Properties of a Diazopentacene Analogue. <i>Asian Journal of Organic Chemistry</i> , 2012 , 1, 346-351	3	28
125	Tailoring Nanoporous Structures in BiTe Thin Films for Improved Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38075-38083	9.5	26
124	Stabilizing the black phase of cesium lead halide inorganic perovskite for efficient solar cells. <i>Science China Chemistry</i> , 2019 , 62, 810-821	7.9	26
123	Dimension-Tunable Circularly Polarized Luminescent Nanoassemblies with Emerging Selective Chirality and Energy Transfer. <i>ACS Nano</i> , 2020 , 14, 2373-2384	16.7	26
122	Vibrationally resolved absorption and emission spectra of rubrene multichromophores: temperature and aggregation effects. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12847-56	2.8	26

121	Quantum entanglement and the self-trapping transition in polaronic systems. <i>Physical Review B</i> , 2004 , 70,	3.3	26
120	Internal Conversion and Vibrational Energy Redistribution in Chlorophyll A. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 49-58	3.4	25
119	Optimal Energy Transfer in Light-Harvesting Systems. <i>Molecules</i> , 2015 , 20, 15224-72	4.8	25
118	Are adenine strands helical H-aggregates?. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11812-6	3.4	25
117	Dynamics of Coupled Electron-Boson Systems with the Multiple Davydov D Ansatz and the Generalized Coherent State. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 8757-8770	2.8	24
116	A ring-closure method for preparing cyclic polymers from unconjugated vinyl monomers. <i>Polymer Chemistry</i> , 2015 , 6, 6659-6663	4.9	24
115	Stabilizing ECsPbI Perovskite via Phenylethylammonium for Efficient Solar Cells with Open-Circuit Voltage over 1.3V. <i>Small</i> , 2020 , 16, e2005246	11	24
114	In Situ Integration of Anisotropic SnO ₂ Heterostructures inside Three-Dimensional Graphene Aerogel for Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26085-93	9.5	23
113	Dynamics of a Holstein polaron with off-diagonal coupling. <i>Journal of Chemical Physics</i> , 2012 , 137, 084113	3.9	23
112	An improved variational approach to off-diagonal exciton-phonon coupling. <i>Journal of Chemical Physics</i> , 2008 , 129, 124114	3.9	23
111	Disorder and coercivity in magnetic particle systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 114, 329-335	2.8	23
110	Transient dynamics of a one-dimensional Holstein polaron under the influence of an external electric field. <i>Annalen Der Physik</i> , 2017 , 529, 1600367	2.6	22
109	Entanglement dynamics of two qubits coupled individually to Ohmic baths. <i>Journal of Chemical Physics</i> , 2013 , 139, 044115	3.9	22
108	Investigation of Structured Green-Band Emission and Electron-Phonon Interactions in Vertically Aligned ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17889-17893	3.8	22
107	N-Heteroheptacenequinone and N-heterononacenequinone: synthesis, physical properties, crystal structures and photoelectrochemical behaviors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9877-9884	7.1	21
106	Probing ultrafast excitation energy transfer of the chlorosome with exciton-phonon variational dynamics. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20298-311	3.6	21
105	Symmetry and the critical phase of the two-bath spin-boson model: Ground-state properties. <i>Physical Review B</i> , 2015 , 91,	3.3	21
104	Ground-state properties of sub-Ohmic spin-boson model with simultaneous diagonal and off-diagonal coupling. <i>Physical Review B</i> , 2014 , 90,	3.3	21

103	Generalized rotating-wave approximation to biased qubit-oscillator systems. <i>Physical Review A</i> , 2013 , 87,	2.6	21
102	Variational study of polaron dynamics with the Davydov Ansatz. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 70-73		21
101	Theoretical study of one-photon and two-photon absorption properties of perylene tetracarboxylic derivatives. <i>Journal of Chemical Physics</i> , 2008 , 129, 014301	3.9	21
100	Synthesis and Electron-Phonon Interactions of Ce ³⁺ -Doped YAG Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5974-5979	3.8	20
99	Micromagnetic modeling of magnetic anisotropy in textured thin-film media. <i>Journal of Applied Physics</i> , 1995 , 77, 6411-6415	2.5	19
98	Photoinduced Intra- and Intermolecular Energy Transfer in Chlorophyll a Dimer. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5331-5339	3.4	18
97	Dynamics of dissipative Landau-Zener transitions. <i>Physical Review A</i> , 2018 , 97,	2.6	18
96	Theory of femtosecond coherent double-pump single-molecule spectroscopy: Application to light harvesting complexes. <i>Journal of Chemical Physics</i> , 2015 , 142, 164106	3.9	18
95	Theoretical study of solvent effect on one- and two-photon absorption properties of starburst DCM derivatives. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11538-45	3.6	18
94	Dynamics of the two-spin spin-boson model with a common bath. <i>Journal of Chemical Physics</i> , 2016 , 144, 144102	3.9	18
93	Path induced coherent energy transfer in light-harvesting complexes in purple bacteria. <i>Journal of Chemical Physics</i> , 2014 , 141, 124103	3.9	17
92	Energy exchanges in carbon nanotube oscillators. <i>Nanotechnology</i> , 2006 , 17, 1032-5	3.4	17
91	Delocalized Davydov D1 Ansatz for the Holstein polaron. <i>Journal of Chemical Physics</i> , 2013 , 138, 174116	3.9	16
90	Self-trapping of polarons with off-diagonal coupling. <i>Physical Review B</i> , 2009 , 79,	3.3	16
89	A novel D _{2h} small molecule with N-heteroacene as acceptor moiety for photovoltaic application. <i>Dyes and Pigments</i> , 2015 , 122, 231-237	4.6	15
88	Role of formation of statistical aggregates in chlorophyll fluorescence concentration quenching. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3976-82	3.4	15
87	Absence of collapse in quantum Rabi oscillations. <i>Physical Review A</i> , 2014 , 90,	2.6	15
86	Thermal-gradient-induced interaction energy ramp and actuation of relative axial motion in short-sleeved double-walled carbon nanotubes. <i>Nanotechnology</i> , 2011 , 22, 485702	3.4	15

85	Temperature effects on singlet fission dynamics mediated by a conical intersection. <i>Journal of Chemical Physics</i> , 2020 , 153, 194106	3.9	15
84	Mapping of Wave Packet Dynamics at Conical Intersections by Time- and Frequency-Resolved Fluorescence Spectroscopy: A Computational Study. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5873-5880	6.4	14
83	Theoretical Examination of Long-Range Energy Propagation in Nano-Engineered Light-Harvesting Antenna Arrays. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3747-3756	3.8	14
82	Width of phonon sidebands in the Brownian oscillator model. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 5897-904	3.4	14
81	Global-local ansatz and dynamical coherent potential approximation study of off-diagonal exciton-phonon coupling. <i>Physical Review B</i> , 2009 , 79,	3.3	13
80	Trans-phonon effects in ultra-fast nanodevices. <i>Nanotechnology</i> , 2008 , 19, 255705	3.4	13
79	Low-Lying Excited States of Light-Harvesting System II in Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9589-9600	3.4	13
78	A variational master equation approach to quantum dynamics with off-diagonal coupling in a sub-Ohmic environment. <i>Journal of Chemical Physics</i> , 2016 , 144, 204106	3.9	13
77	Flexible silver nanowire transparent conductive films prepared by an electrostatic adsorption self-assembly process. <i>Journal of Materials Science</i> , 2019 , 54, 5802-5812	4.3	13
76	Monitoring of singlet fission via two-dimensional photon-echo and transient-absorption spectroscopy: Simulations by multiple Davydov trial states. <i>Journal of Chemical Physics</i> , 2019 , 151, 114102	3.9	12
75	"Doping" pentacene with sp(2)-phosphorus atoms: towards high performance ambipolar semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3173-8	3.6	12
74	Competition between diagonal and off-diagonal coupling gives rise to charge-transfer states in polymeric solar cells. <i>Scientific Reports</i> , 2015 , 5, 14555	4.9	12
73	Communication: spin-boson model with diagonal and off-diagonal coupling to two independent baths: ground-state phase transition in the deep sub-Ohmic regime. <i>Journal of Chemical Physics</i> , 2014 , 140, 161105	3.9	12
72	Reduced density matrix and combined dynamics of electrons and nuclei. <i>Journal of Chemical Physics</i> , 2000 , 113, 4016-4027	3.9	12
71	A Unique Blend of 2-Fluorenyl-2-anthracene and 2-Anthryl-2-anthracene Showing White Emission and High Charge Mobility. <i>Angewandte Chemie</i> , 2017 , 129, 740-745	3.6	11
70	Antistatic PVC-graphene Composite through Plasticizer-mediated Exfoliation of Graphite. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018 , 36, 1361-1367	3.5	11
69	Dynamics of the spin-boson model: A comparison of the multiple Davydov D1,D1.5,D2 Ansatz. <i>Chemical Physics</i> , 2018 , 515, 108-118	2.3	11
68	Sub-Ohmic spin-boson model with off-diagonal coupling: ground state properties. <i>Journal of Chemical Physics</i> , 2013 , 139, 164103	3.9	11

67	A Preloaded Amorphous Calcium Carbonate/Doxorubicin@Silica Nanoreactor for pH-Responsive Delivery of an Anticancer Drug. <i>Angewandte Chemie</i> , 2015 , 127, 933-936	3.6	11
66	Resonant energy transfer assisted by off-diagonal coupling. <i>Journal of Chemical Physics</i> , 2012 , 136, 124513	3.3	11
65	Analyzing the optical properties of a conjugated polymer by the multimode brownian oscillator model. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 504-8	2.8	11
64	Emerging Low-Dimensional Crystal Structure of Metal Halide Perovskite Optoelectronic Materials and Devices. <i>Small Structures</i> , 2021 , 2, 2000133	8.7	11
63	Davydov-Ansatz for Landau-Zener-Stueckelberg-Majorana transitions in an environment: Tuning the survival probability via number state excitation. <i>Journal of Chemical Physics</i> , 2019 , 150, 234109	3.9	10
62	Quantifying non-Markovianity for a chromophore-qubit pair in a super-Ohmic bath. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8087-96	3.6	10
61	Exotic fluorescence spectrum of a superconducting qubit driven simultaneously by longitudinal and transversal fields. <i>Physical Review A</i> , 2016 , 93,	2.6	10
60	Exciton dissociation in the presence of phonons: a reduced hierarchy equations of motion approach. <i>Journal of Chemical Physics</i> , 2014 , 140, 104113	3.9	10
59	Applications of neural networks to the simulation of dynamics of open quantum systems. <i>Chemical Physics</i> , 2018 , 515, 272-278	2.3	10
58	Study of Electronic Structures and Pigment-Protein Interactions in the Reaction Center of <i>Thermochromatium tepidum</i> with a Dynamic Environment. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 10046-10058	3.4	9
57	Superradiance at the localization-delocalization crossover in tubular chlorosomes. <i>Physical Review E</i> , 2016 , 93, 022414	2.4	9
56	Generalization of the Davydov Ansatz by squeezing. <i>Chemical Physics</i> , 2016 , 481, 99-107	2.3	9
55	Dynamics of a two-level system under the simultaneous influence of a spin bath and a boson bath. <i>Journal of Chemical Physics</i> , 2013 , 139, 054118	3.9	9
54	A theoretical study on magnesium ion-selective two-photon fluorescent probe based on benzo [h] chromene derivatives. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 61-68	1.9	9
53	A variational surface hopping algorithm for the sub-Ohmic spin-boson model. <i>Journal of Chemical Physics</i> , 2013 , 139, 014102	3.9	8
52	Theoretical study of one- and two-photon absorption properties of pyrene derivatives. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 265-274	1.9	8
51	Ultrafast dynamics in rubrene and its spectroscopic manifestation. <i>Journal of Chemical Physics</i> , 2020 , 153, 174105	3.9	8
50	Direct evaluation of boson dynamics via finite-temperature time-dependent variation with multiple Davydov states. <i>Journal of Chemical Physics</i> , 2017 , 147, 234107	3.9	7

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- 48 Sustained smooth dynamics in short-sleeved nanobearings based on double-walled carbon nanotubes. *Nanotechnology*, **2010**, 21, 495303 3.4 7
- 47 Polaronic discontinuities induced by off-diagonal coupling. *Journal of Chemical Physics*, **2012**, 137, 034108 7 7
- 46 Quasi-Reversible Energy Flows in Carbon-Nanotube Oscillators. *Journal of Computational and Theoretical Nanoscience*, **2006**, 3, 852-856 0.3 7
- 45 Dynamics of coherence, localization and excitation transfer in disordered nanorings. *Physical Chemistry Chemical Physics*, **2017**, 19, 25996-26013 3.6 7
- 44 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 6.4 7
- 43 Fully Quantum Modeling of Exciton Diffusion in Mesoscale Light Harvesting Systems. *Materials*, **2021**, 14, 3.5 7
- 42 Efficient simulation of time- and frequency-resolved four-wave-mixing signals with a multiconfigurational Ehrenfest approach. *Journal of Chemical Physics*, **2021**, 154, 054105 3.9 7
- 41 Tetra-EDOT substituted 3D electrochromic polymers with lower band gaps. *Science China Chemistry*, **2017**, 60, 90-98 7.9 6
- 40 Dissipative dynamics in a tunable Rabi dimer with periodic harmonic driving. *Journal of Chemical Physics*, **2019**, 150, 184116 3.9 6
- 39 Multimode vibronic spectra of the Holstein molecular crystal model. *Physical Chemistry Chemical Physics*, **2010**, 12, 6045-53 3.6 6
- 38 Coercivity control in finite arrays of magnetic particles. *Journal of Applied Physics*, **2011**, 110, 103908 2.5 6
- 37 Size Dependence and Spatial Variation of Electronic Structure in Nonpolar ZnO Nanobelts. *Journal of Physical Chemistry C*, **2009**, 113, 4804-4808 3.8 6
- 36 Maxwell's demon and Smoluchowski's trap door. *Physical Review E*, **2007**, 75, 041109 2.4 6
- 35 Optical and transport properties of single crystal rubrene: A theoretical study. *Chemical Physics*, **2016**, 481, 198-205 2.3 6
- 34 Applications of neural networks to dynamics simulation of Landau-Zener transitions. *Chemical Physics*, **2020**, 528, 110509 2.3 6
- 33 Simulation of Femtosecond Phase-Locked Double-Pump Signals of Individual Light-Harvesting Complexes LH2. *Journal of Physical Chemistry Letters*, **2018**, 9, 4488-4494 6.4 5
- 32 Ansatz for the quantum phase transition in a dissipative two-qubit system. *Physical Review E*, **2015**, 91, 062115 2.4 5

31	Dephasing and dissipation in a source-drain model of light-harvesting systems. <i>ChemPhysChem</i> , 2014 , 15, 2859-70	3.2	5
30	Off-diagonal carrier-phonon coupling and polaron transport. <i>Journal of Physics: Conference Series</i> , 2012 , 338, 012018	0.3	5
29	Alkaline-Earth Metal Ion Turn-On Circularly Polarized Luminescence and Encrypted Selective Recognition of AMP. <i>Small Methods</i> , 2020 , 4, 2000493	12.8	5
28	A Flexible and Infrared-Transparent Bi ₂ Te ₃ -Carbon Nanotube Thermoelectric Hybrid for both Active and Passive Cooling. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3008-3016	4	5
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