

Thorsten Hansen

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,829
citations

411340

20
h-index

299063

42
g-index

61
all docs

61
docs citations

61
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting slow relaxation timescales in open quantum systems. <i>Journal of Mathematical Chemistry</i> , 2022, 60, 1542-1554.	0.7	1
2	The Sulfolene Protecting Group: Observation of a Direct Photoinitiated Cheletropic Ring Opening. <i>ChemPhotoChem</i> , 2021, 5, 863-870.	1.5	1
3	Hole Hopping through Cytochrome P450. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3065-3073.	1.2	5
4	Adiabatic elimination and subspace evolution of open quantum systems. <i>Physical Review A</i> , 2020, 101, .	1.0	11
5	Computational construction of the electronic Hamiltonian for photoinduced electron transfer and Redfield propagation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17366-17377.	1.3	3
6	Excited-State Topology Modifications of the Dihydroazulene Photoswitch Through Aromaticity. <i>ChemPhotoChem</i> , 2019, 3, 577.	1.5	2
7	$Q_{y\langle i \rangle}$ and $Q_{x\langle i \rangle}$ Absorption Bands for Bacteriochlorophyll a Molecules from LH2 and LH3. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5283-5292.	1.1	15
8	Excited-State Topology Modifications of the Dihydroazulene Photoswitch Through Aromaticity. <i>ChemPhotoChem</i> , 2019, 3, 619-629.	1.5	10
9	Spectral shifts of BODIPY derivatives: a simple continuous model. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1315-1323.	1.6	5
10	Classification of dark states in multilevel dissipative systems. <i>Physical Review A</i> , 2019, 99, .	1.0	15
11	Subphthalocyanine-radiannulene scaffold – a multi-electron acceptor and strong chromophore. <i>Chemical Communications</i> , 2018, 54, 2763-2766.	2.2	6
12	Two-dimensional electronic spectroscopy of anharmonic molecular potentials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1642-1652.	1.3	14
13	Conformationally controlled ultrafast intersystem crossing in bithiophene systems. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13412-13418.	1.3	3
14	Macrocycle ring deformation as the secondary design principle for light-harvesting complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9051-E9057.	3.3	21
15	Two-dimensional Fano lineshapes: Excited-state absorption contributions. <i>Journal of Chemical Physics</i> , 2018, 148, 184201.	1.2	6
16	Intermolecular Modes between LH2 Bacteriochlorophylls and Protein Residues: The Effect on the Excitation Energies. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5499-5508.	1.2	19
17	Predicting transport regime and local electrostatic environment from Coulomb blockade diamond sizes. <i>Journal of Chemical Physics</i> , 2017, 146, 104306.	1.2	2
18	A Study of Electrocyclic Reactions in a Molecular Junction: Mechanistic and Energetic Requirements for Switching in the Coulomb Blockade Regime. <i>ChemPhysChem</i> , 2017, 18, 1492-1492.	1.0	0

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19	Band Gap Energy of Gradient Core–Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13655-13659.	1.5	14
20	Interatomic inelastic current. <i>Journal of Chemical Physics</i> , 2017, 146, 092322.	1.2	9
21	Parameter-free driven Liouville-von Neumann approach for time-dependent electronic transport simulations in open quantum systems. <i>Journal of Chemical Physics</i> , 2017, 146, 092331.	1.2	40
22	A Study of Electrocyclic Reactions in a Molecular Junction: Mechanistic and Energetic Requirements for Switching in the Coulomb Blockade Regime. <i>ChemPhysChem</i> , 2017, 18, 1517-1525.	1.0	2
23	Stepwise “Dark Photoswitching” of Photochromic Dimers in a Junction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3163-3170.	1.5	3
24	Drastic difference between hole and electron injection through the gradient shell of Cd _x Se _y Zn _{1-x-y} S quantum dots. <i>Nanoscale</i> , 2017, 9, 12503-12508.	2.8	7
25	Molecular Properties of Sandwiched Molecules Between Electrodes and Nanoparticles. <i>Advances in Quantum Chemistry</i> , 2017, 75, 53-102.	0.4	7
26	Nature of relaxation processes revealed by the action signals of intensity-modulated light fields. <i>Physical Review A</i> , 2016, 94, .	1.0	19
27	Boron Subphthalocyanine Based Molecular Triad Systems for the Capture of Solar Energy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7694-7703.	1.1	10
28	Coherent two-dimensional spectroscopy of a Fano model. <i>Physical Review B</i> , 2016, 94, .	1.1	8
29	Polarizability as a Molecular Descriptor for Conductance in Organic Molecular Circuits. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26054-26060.	1.5	16
30	Absorption and Fluorescence Lineshape Theory for Polynomial Potentials. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5979-5989.	2.3	27
31	Multireference Excitation Energies for Bacteriochlorophylls A within Light Harvesting System 2. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1305-1313.	2.3	32
32	Controlling Two-Step Multimode Switching of Dihydroazulene Photoswitches. <i>Chemistry - A European Journal</i> , 2015, 21, 3968-3977.	1.7	36
33	Tracking molecular resonance forms of donor–acceptor push–pull molecules by single-molecule conductance experiments. <i>Nature Communications</i> , 2015, 6, 10233.	5.8	36
34	Dark Photoswitching Induces Coulomb Blockade Diamond Collapse. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14829-14833.	1.5	6
35	The chemistry of Coulomb blockade diamonds for 1,4-diamino-benzene. <i>Chemical Physics</i> , 2015, 459, 40-44.	0.9	3
36	Communication: Finding destructive interference features in molecular transport junctions. <i>Journal of Chemical Physics</i> , 2014, 141, 181103.	1.2	30

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37	Computational assignment of redox states to Coulomb blockade diamonds. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17473-17478.	1.3	11
38	Orbital Topology Controlling Charge Injection in Quantum-Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1157-1162.	2.1	27
39	Simple and Accurate Method for Time-Dependent Transport along Nanoscale Junctions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20009-20017.	1.5	41
40	3D Spectroscopy of Vibrational Coherences in Quantum Dots: Theory. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11124-11133.	1.2	33
41	Gated-Controlled Rectification of a Self-Assembled Monolayer-Based Transistor. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8468-8474.	1.5	38
42	Nonlinear response theory on the Keldysh contour. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 154014.	0.6	8
43	Understanding and Controlling Crosstalk between Parallel Molecular Wires. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1667-1671.	2.1	32
44	A theoretical approach to molecular single-electron transistors. <i>Theoretical Chemistry Accounts</i> , 2011, 130, 839-850.	0.5	9
45	Exploring local currents in molecular junctions. <i>Nature Chemistry</i> , 2010, 2, 223-228.	6.6	375
46	Nonlinear Optical Effects Induced by Nanoparticles in Symmetric Molecules. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20870-20876.	1.5	15
47	Molecular Transport Junctions with Semiconductor Electrodes: Analytical Forms for One-Dimensional Self-Energies. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4665-4676.	1.1	22
48	Charge transfer excitation energies in pyridine-silver complexes studied by a QM/MM method. <i>Chemical Physics Letters</i> , 2009, 470, 285-288.	1.2	38
49	Interfering pathways in benzene: An analytical treatment. <i>Journal of Chemical Physics</i> , 2009, 131, 194704.	1.2	121
50	Nonequilibrium steady state transport via the reduced density matrix operator. <i>Journal of Chemical Physics</i> , 2009, 130, 144105.	1.2	52
51	Quantum Interference in Acyclic Systems: Conductance of Cross-Conjugated Molecules. <i>Journal of the American Chemical Society</i> , 2008, 130, 17301-17308.	6.6	219
52	Understanding quantum interference in coherent molecular conduction. <i>Journal of Chemical Physics</i> , 2008, 129, 054701.	1.2	232
53	Cotunneling Model for Current-Induced Events in Molecular Wires. <i>Nano Letters</i> , 2008, 8, 3525-3531.	4.5	10
54	Quantum Interference: The Structural Dependence of Electron Transmission through Model Systems and Cross-Conjugated Molecules. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16991-16998.	1.5	63

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55	Non-Adiabatic Effects in Electron Tunneling in Molecular Junctions. AIP Conference Proceedings, 2007, , .	0.3	0
56	A molecule wired: Electrostatic investigation. Chemical Physics Letters, 2005, 405, 118-122.	1.2	8
57	Frequency-Dependent Polarizabilities of Amino Acids as Calculated by an Electrostatic Interaction Model. Journal of Chemical Theory and Computation, 2005, 1, 626-633.	2.3	20
58	Molecular properties of molecules between electrodes. Theoretical Chemistry Accounts, 2004, 111, 122-131.	0.5	7