# Thorsten Hansen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8049247/publications.pdf

Version: 2024-02-01

| 58 | 1,829 | 361413 | 265206 |
|---|---|---|---|
| papers | citations | 20 h-index | 42 g-index |

| 61 | 61 | 61 | 1971 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Predicting slow relaxation timescales in open quantum systems. Journal of Mathematical Chemistry, 2022, 60, 1542-1554. | 1.5 | 1 |
| 2 | The Sulfolene Protecting Group: Observation of a Direct Photoinitiated Cheletropic Ring Opening. ChemPhotoChem, 2021, 5, 863-870. | 3.0 | 1 |
| 3 | Hole Hopping through Cytochrome P450. Journal of Physical Chemistry B, 2020, 124, 3065-3073. | 2.6 | 5 |
| 4 | Adiabatic elimination and subspace evolution of open quantum systems. Physical Review A, 2020, 101, . | 2.5 | 11 |
| 5 | Computational construction of the electronic Hamiltonian for photoinduced electron transfer and Redfield propagation. Physical Chemistry Chemical Physics, 2019, 21, 17366-17377. | 2.8 | 3 |
| 6 | Excitedâ€State Topology Modifications of the Dihydroazulene Photoswitch Through Aromaticity. ChemPhotoChem, 2019, 3, 577. | 3.0 | 2 |
| 7 | Q<sub>y</sub> and Q<sub>x</sub> Absorption Bands for Bacteriochlorophyll a Molecules from LH2 and LH3. Journal of Physical Chemistry A, 2019, 123, 5283-5292. | 2.5 | 15 |
| 8 | Excitedâ€State Topology Modifications of the Dihydroazulene Photoswitch Through Aromaticity. ChemPhotoChem, 2019, 3, 619-629. | 3.0 | 10 |
| 9 | Spectral shifts of BODIPY derivatives: a simple continuous model. Photochemical and Photobiological Sciences, 2019, 18, 1315-1323. | 2.9 | 5 |
| 10 | Classification of dark states in multilevel dissipative systems. Physical Review A, 2019, 99, . | 2.5 | 15 |
| 11 | Subphthalocyanine-radiaannulene scaffold â€“ a multi-electron acceptor and strong chromophore. Chemical Communications, 2018, 54, 2763-2766. | 4.1 | 6 |
| 12 | Two-dimensional electronic spectroscopy of anharmonic molecular potentials. Physical Chemistry Chemical Physics, 2018, 20, 1642-1652. | 2.8 | 14 |
| 13 | Conformationally controlled ultrafast intersystem crossing in bithiophene systems. Physical Chemistry Chemical Physics, 2018, 20, 13412-13418. | 2.8 | 3 |
| 14 | Macrocycle ring deformation as the secondary design principle for light-harvesting complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9051-E9057. | 7.1 | 21 |
| 15 | Two-dimensional Fano lineshapes: Excited-state absorption contributions. Journal of Chemical Physics, 2018, 148, 184201. | 3.0 | 6 |
| 16 | Intermolecular Modes between LH2 Bacteriochlorophylls and Protein Residues: The Effect on the Excitation Energies. Journal of Physical Chemistry B, 2017, 121, 5499-5508. | 2.6 | 19 |
| 17 | Predicting transport regime and local electrostatic environment from Coulomb blockade diamond sizes. Journal of Chemical Physics, 2017, 146, 104306. | 3.0 | 2 |
| 18 | A Study of Electrocyclic Reactions in a Molecular Junction: Mechanistic and Energetic Requirements for Switching in the Coulomb Blockade Regime. ChemPhysChem, 2017, 18, 1492-1492. | 2.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Band Gap Energy of Gradient Coreâ€“Shell Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 13655-13659. | 3.1 | 14 |
| 20 | Interatomic inelastic current. Journal of Chemical Physics, 2017, 146, 092322. | 3.0 | 9 |
| 21 | Parameter-free driven Liouville-von Neumann approach for time-dependent electronic transport simulations in open quantum systems. Journal of Chemical Physics, 2017, 146, 092331. | 3.0 | 40 |
| 22 | A Study of Electrocyclic Reactions in a Molecular Junction: Mechanistic and Energetic Requirements for Switching in the Coulomb Blockade Regime. ChemPhysChem, 2017, 18, 1517-1525. | 2.1 | 2 |
| 23 | Stepwise â€œDark Photoswitchingâ€•of Photochromic Dimers in a Junction. Journal of Physical Chemistry C, 2017, 121, 3163-3170. | 3.1 | 3 |
| 24 | Drastic difference between hole and electron injection through the gradient shell of Cd<sub>x</sub>Se<sub>y</sub>Zn<sub>1â^'x</sub>S<sub>1â^'y</sub> quantum dots. Nanoscale, 2017, 9, 12503-12508. | 5.6 | 7 |
| 25 | Molecular Properties of Sandwiched Molecules Between Electrodes and Nanoparticles. Advances in Quantum Chemistry, 2017, 75, 53-102. | 0.8 | 7 |
| 26 | Nature of relaxation processes revealed by the action signals of intensity-modulated light fields. Physical Review A, 2016, 94, . | 2.5 | 19 |
| 27 | Boron Subphthalocyanine Based Molecular Triad Systems for the Capture of Solar Energy. Journal of Physical Chemistry A, 2016, 120, 7694-7703. | 2.5 | 10 |
| 28 | Coherent two-dimensional spectroscopy of a Fano model. Physical Review B, 2016, 94, . | 3.2 | 8 |
| 29 | Polarizability as a Molecular Descriptor for Conductance in Organic Molecular Circuits. Journal of Physical Chemistry C, 2016, 120, 26054-26060. | 3.1 | 16 |
| 30 | Absorption and Fluorescence Lineshape Theory for Polynomial Potentials. Journal of Chemical Theory and Computation, 2016, 12, 5979-5989. | 5.3 | 27 |
| 31 | Multireference Excitation Energies for Bacteriochlorophylls A within Light Harvesting System 2. Journal of Chemical Theory and Computation, 2016, 12, 1305-1313. | 5.3 | 32 |
| 32 | Controlling Twoâ€Step Multimode Switching of Dihydroazulene Photoswitches. Chemistry - A European Journal, 2015, 21, 3968-3977. | 3.3 | 36 |
| 33 | Tracking molecular resonance forms of donorâ€“acceptor pushâ€“pull molecules by single-molecule conductance experiments. Nature Communications, 2015, 6, 10233. | 12.8 | 36 |
| 34 | Dark Photoswitching Induces Coulomb Blockade Diamond Collapse. Journal of Physical Chemistry C, 2015, 119, 14829-14833. | 3.1 | 6 |
| 35 | The chemistry of Coulomb blockade diamonds for 1,4-diamino-benzene. Chemical Physics, 2015, 459, 40-44. | 1.9 | 3 |
| 36 | Communication: Finding destructive interference features in molecular transport junctions. Journal of Chemical Physics, 2014, 141, 181103. | 3.0 | 30 |

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|---|---|---|---|
| 37 | Computational assignment of redox states to Coulomb blockade diamonds. Physical Chemistry Chemical Physics, 2014, 16, 17473-17478. | 2.8 | 11 |
| 38 | Orbital Topology Controlling Charge Injection in Quantum-Dot-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1157-1162. | 4.6 | 27 |
| 39 | Simple and Accurate Method for Time-Dependent Transport along Nanoscale Junctions. Journal of Physical Chemistry C, 2014, 118, 20009-20017. | 3.1 | 41 |
| 40 | 3D Spectroscopy of Vibrational Coherences in Quantum Dots: Theory. Journal of Physical Chemistry B, 2013, 117, 11124-11133. | 2.6 | 33 |
| 41 | Gated-Controlled Rectification of a Self-Assembled Monolayer-Based Transistor. Journal of Physical Chemistry C, 2013, 117, 8468-8474. | 3.1 | 38 |
| 42 | Nonlinear response theory on the Keldysh contour. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154014. | 1.5 | 8 |
| 43 | Understanding and Controlling Crosstalk between Parallel Molecular Wires. Journal of Physical Chemistry Letters, 2011, 2, 1667-1671. | 4.6 | 32 |
| 44 | A theoretical approach to molecular single-electron transistors. Theoretical Chemistry Accounts, 2011, 130, 839-850. | 1.4 | 9 |
| 45 | Exploring local currents in molecular junctions. Nature Chemistry, 2010, 2, 223-228. | 13.6 | 375 |
| 46 | Nonlinear Optical Effects Induced by Nanoparticles in Symmetric Molecules. Journal of Physical Chemistry C, 2010, 114, 20870-20876. | 3.1 | 15 |
| 47 | Molecular Transport Junctions with Semiconductor Electrodes: Analytical Forms for One-Dimensional Self-Energies. Journal of Physical Chemistry A, 2009, 113, 4665-4676. | 2.5 | 22 |
| 48 | Charge transfer excitation energies in pyridineâ€“silver complexes studied by a QM/MM method. Chemical Physics Letters, 2009, 470, 285-288. | 2.6 | 38 |
| 49 | Interfering pathways in benzene: An analytical treatment. Journal of Chemical Physics, 2009, 131, 194704. | 3.0 | 121 |
| 50 | Nonequilibrium steady state transport via the reduced density matrix operator. Journal of Chemical Physics, 2009, 130, 144105. | 3.0 | 52 |
| 51 | Quantum Interference in Acyclic Systems: Conductance of Cross-Conjugated Molecules. Journal of the American Chemical Society, 2008, 130, 17301-17308. | 13.7 | 219 |
| 52 | Understanding quantum interference in coherent molecular conduction. Journal of Chemical Physics, 2008, 129, 054701. | 3.0 | 232 |
| 53 | Cotunneling Model for Current-Induced Events in Molecular Wires. Nano Letters, 2008, 8, 3525-3531. | 9.1 | 10 |
| 54 | Quantum Interference: The Structural Dependence of Electron Transmission through Model Systems and Cross-Conjugated Molecules. Journal of Physical Chemistry C, 2008, 112, 16991-16998. | 3.1 | 63 |

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|---|---|---|---|
| 55 | Non-Adiabatic Effects in Electron Tunneling in Molecular Junctions. AIP Conference Proceedings, 2007, , . | 0.4 | 0 |
| 56 | A molecule wired: Electrostatic investigation. Chemical Physics Letters, 2005, 405, 118-122. | 2.6 | 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. | 5.3 | 20 |
| 58 | Molecular properties of molecules between electrodes. Theoretical Chemistry Accounts, 2004, 111, 122-131. | 1.4 | 7 |