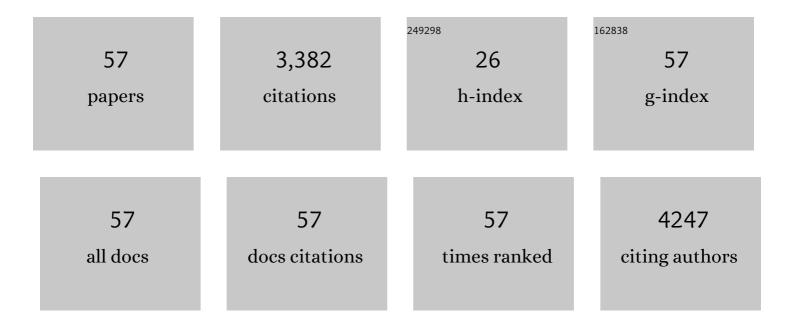
Haitao Sun

List of Publications by Year in descending order

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ΗλΙΤΛΟ SUN

| # | Article | IF | CITATIONS |
|----|---|---------------|-----------|
| 1 | Nearâ€Unity Triplet Generation Promoted via Spiroâ€Conjugation. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 20 |
| 2 | Nearâ€Unity Triplet Generation Promoted via Spiroâ€Conjugation. Angewandte Chemie, 2022, 134, e202113190. | 1.6 | 3 |
| 3 | A Fluorogenic ONOO [–] -Triggered Carbon Monoxide Donor for Mitigating Brain Ischemic Damage. Journal of the American Chemical Society, 2022, 144, 2114-2119. | 6.6 | 39 |
| 4 | Excited State Dynamics of Methylated Guanosine Derivatives Revealed by Femtosecond Timeâ€resolved Spectroscopy. Photochemistry and Photobiology, 2022, 98, 1008-1016. | 1.3 | 2 |
| 5 | Engineering naphthalimide-cyanine integrated near-infrared dye into ROS-responsive nanohybrids for tumor PDT/PTT/chemotherapy. Bioactive Materials, 2022, 14, 42-51. | 8.6 | 41 |
| 6 | Achieving Adjustable Multifunction Based on Host–Guest Interaction-Manipulated Reversible Molecular Conformational Switching. ACS Applied Materials & Interfaces, 2022, 14, 1807-1816. | 4.0 | 7 |
| 7 | A genetic engineering strategy for editing near-infrared-II fluorophores. Nature Communications, 2022, 13, . | 5.8 | 33 |
| 8 | Gaseous cyclodextrin- <i>closo</i> -dodecaborate complexes l‡CD·B ₁₂ X ₁₂ ^{2â~'} (l‡ = l±, l², and l³; X = F, Cl, Br, and l): electronic struct and intramolecular interactions. Physical Chemistry Chemical Physics, 2021, 23, 13447-13457. | ur e s | 8 |
| 9 | Facile construction of well-defined radical metallacycles through coordination-driven self-assembly. Materials Chemistry Frontiers, 2021, 5, 1863-1871. | 3.2 | 17 |
| 10 | Dissociative Ionization of Molecular CF2Br2 under 800 and 400 nm Intense Femtosecond Laser Fields. Applied Sciences (Switzerland), 2021, 11, 1704. | 1.3 | 1 |
| 11 | New Insights about the Photostability of DNA/RNA Bases: Triplet nπ* State Leads to Effective Intersystem Crossing in Pyrimidinones. Journal of Physical Chemistry B, 2021, 125, 2042-2049. | 1.2 | 8 |
| 12 | Simulation of Negative Ion Photoelectron Spectroscopy Using a Nuclear Ensemble Approach: Implications from a Nuclear Vibration Effect. Journal of Physical Chemistry A, 2021, 125, 6621-6628. | 1.1 | 1 |
| 13 | Assessment of DFT methods for the prediction of detachment energies and electronic structures of complex and multiply charged anions. Computational and Theoretical Chemistry, 2021, 1202, 113295. | 1.1 | 4 |
| 14 | Shielding Unit Engineering of NIR-II Molecular Fluorophores for Improved Fluorescence Performance and Renal Excretion Ability. Frontiers in Chemistry, 2021, 9, 739802. | 1.8 | 10 |
| 15 | Orthogonal Self-Assembly of a Two-Step Fluorescence-Resonance Energy Transfer System with Improved Photosensitization Efficiency and Photooxidation Activity. Journal of the American Chemical Society, 2021, 143, 399-408. | 6.6 | 104 |
| 16 | Visible-Light-Driven Rotation of Molecular Motors in Discrete Supramolecular Metallacycles. Journal of the American Chemical Society, 2021, 143, 442-452. | 6.6 | 72 |
| 17 | Tuning the optical properties of BODIPY dyes by N-rich heterocycle conjugation using a combined synthesis and computational approach. New Journal of Chemistry, 2021, 45, 19641-19645. | 1.4 | 3 |
| 18 | Defect-Engineered Graphene Films as Ozonation Catalysts for the Devastation of Sulfamethoxazole: Insights into the Active Sites and Oxidation Mechanism. ACS Applied Materials & Interfaces, 2021, 13, 52706-52716. | 4.0 | 6 |

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| # | Article | IF | CITATIONS |
|----|---|----------------|-----------|
| 19 | Computational Screening of Atomically Thin Two-Dimensional Nanomaterial-Coated Cs ₃ Sb Heterostructures for High-Performance Photocathodes. Journal of Physical Chemistry C, 2020, 124, 26396-26403. | 1.5 | 3 |
| 20 | Effects of Fluorination on Fused Ring Electron Acceptor for Active Layer Morphology, Exciton Dissociation, and Charge Recombination in Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 56231-56239. | 4.0 | 15 |
| 21 | Graphene Oxide-BiOCl Nanoparticle Composites as Catalysts for Oxidation of Volatile Organic Compounds in Nonthermal Plasmas. ACS Applied Nano Materials, 2020, 3, 9363-9374. | 2.4 | 13 |
| 22 | Rotaxane-Branched Dendrimers with Enhanced Photosensitization. Journal of the American Chemical Society, 2020, 142, 16748-16756. | 6.6 | 68 |
| 23 | High brightness NIR-II nanofluorophores based on fused-ring acceptor molecules. Nano Research, 2020, 13, 2570-2575. | 5.8 | 23 |
| 24 | Intramolecular Charge Transfer in 5-Halogen Cytidines Revealed by Femtosecond Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 2560-2567. | 1.2 | 6 |
| 25 | Photoelectron spectroscopy and computational investigations of the electronic structures and noncovalent interactions of cyclodextrin- <i>closo</i> -dodecaborate anion complexes I‡-CD·B ₁₂ X ₁₂ ^{2â⁻²} (χ = α, β, γ; X = H, F). Physical Chemistry Chemical Ph 2020, 22, 7193-7200. | 1.3 iysics, | 14 |
| 26 | Propylenedioxy Thiophene Donor to Achieve NIR-II Molecular Fluorophores with Enhanced Brightness. Chemistry of Materials, 2020, 32, 2061-2069. | 3.2 | 72 |
| 27 | Electronic structures and binding motifs of sodium polysulfide clusters NaSnâ^' (n = 5–9): A joint negative ion photoelectron spectroscopy and computational investigation. Journal of Chemical Physics, 2019, 150, 244305. | 1.2 | 4 |
| 28 | Albumin-chaperoned cyanine dye yields superbright NIR-II fluorophore with enhanced pharmacokinetics. Science Advances, 2019, 5, eaaw0672. | 4.7 | 171 |
| 29 | Rational design of a super-contrast NIR-II fluorophore affords high-performance NIR-II molecular imaging guided microsurgery. Chemical Science, 2019, 10, 326-332. | 3.7 | 124 |
| 30 | pH Controlled Intersystem Crossing and Singlet Oxygen Generation of 8â€Azaadenine in Aqueous Solution. ChemPhysChem, 2019, 20, 757-765. | 1.0 | 8 |
| 31 | Prediction of Excited-State Properties of Oligoacene Crystals Using Fragment-Based Quantum Mechanical Method. Journal of Physical Chemistry A, 2019, 123, 5407-5417. | 1.1 | 18 |
| 32 | Methyl Thioether Functionalization of a Polymeric Donor for Efficient Solar Cells Processed from Non-Halogenated Solvents. Chemistry of Materials, 2019, 31, 3025-3033. | 3.2 | 23 |
| 33 | Accurate Prediction for Dynamic Hybrid Local and Charge Transfer Excited States from Optimally Tuned Range-Separated Density Functionals. Journal of Physical Chemistry C, 2019, 123, 5616-5625. | 1.5 | 19 |
| 34 | Donor Engineering for NIR-II Molecular Fluorophores with Enhanced Fluorescent Performance. Journal of the American Chemical Society, 2018, 140, 1715-1724. | 6.6 | 379 |
| 35 | Conformational Relaxation and Thermally Activated Delayed Fluorescence in Anthraquinone-Based Intramolecular Charge-Transfer Compound. Journal of Physical Chemistry C, 2018, 122, 3727-3737. | 1.5 | 65 |
| 36 | Design of zinc porphyrinâ€perylene diimide donorâ€bridgeâ€acceptor chromophores for large secondâ€order nonlinear optical response: A theoretical exploration. International Journal of Quantum Chemistry, 2018, 118, e25536. | 1.0 | 10 |

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|----|--|------|-----------|
| 37 | Dissociative Ionization and Coulomb Explosion of Molecular Bromocyclopropane in an Intense Femtosecond Laser Field. Molecules, 2018, 23, 3096. | 1.7 | 3 |
| 38 | Channel-resolved multiorbital double ionization of molecular Cl2 in an intense femtosecond laser field. Physical Review A, 2018, 98, . | 1.0 | 11 |
| 39 | Developing a Bright NIRâ€II Fluorophore with Fast Renal Excretion and Its Application in Molecular Imaging of Immune Checkpoint PD‣1. Advanced Functional Materials, 2018, 28, 1804956. | 7.8 | 85 |
| 40 | Why Can High Charge arrier Mobilities be Achieved Along π onjugated Polymer Chains with Alternating Donor–Acceptor Moieties?. Advanced Theory and Simulations, 2018, 1, 1800016. | 1.3 | 12 |
| 41 | Theoretical exploitation of acceptors based on benzobis(thiadiazole) and derivatives for organic NIR-II fluorophores. Physical Chemistry Chemical Physics, 2018, 20, 19759-19767. | 1.3 | 24 |
| 42 | Repurposing Cyanine NIRâ€I Dyes Accelerates Clinical Translation of Nearâ€Infraredâ€II (NIRâ€II) Bioimaging. Advanced Materials, 2018, 30, e1802546. | 11.1 | 249 |
| 43 | Benchmark study of ionization potentials and electron affinities of armchair single-walled carbon nanotubes using density functional theory. Journal of Physics Condensed Matter, 2018, 30, 215501. | 0.7 | 10 |
| 44 | Rational Design of Molecular Fluorophores for Biological Imaging in the NIRâ€II Window. Advanced Materials, 2017, 29, 1605497. | 11.1 | 356 |
| 45 | Prediction of excitedâ€state properties of oligoacene crystals using polarizable continuum modelâ€ŧuned rangeâ€separated hybrid functional approach. Journal of Computational Chemistry, 2017, 38, 569-575. | 1.5 | 28 |
| 46 | Impact of Dielectric Constant on the Singlet–Triplet Gap in Thermally Activated Delayed Fluorescence Materials. Journal of Physical Chemistry Letters, 2017, 8, 2393-2398. | 2.1 | 118 |
| 47 | Thieno[3,4- <i>c</i>]pyrrole-4,6(5 <i>H</i>)-dione Polymers with Optimized Energy Level Alignments for Fused-Ring Electron Acceptor Based Polymer Solar Cells. Chemistry of Materials, 2017, 29, 5636-5645. | 3.2 | 43 |
| 48 | Quantitative Estimation of Exciton Binding Energy of Polythiophene-Derived Polymers Using Polarizable Continuum Model Tuned Range-Separated Density Functional. Journal of Physical Chemistry C, 2016, 120, 8048-8055. | 1.5 | 56 |
| 49 | Ionization Energies, Electron Affinities, and Polarization Energies of Organic Molecular Crystals: Quantitative Estimations from a Polarizable Continuum Model (PCM)-Tuned Range-Separated Density Functional Approach. Journal of Chemical Theory and Computation, 2016, 12, 2906-2916. | 2.3 | 124 |
| 50 | Theoretical predication for transition energies of thermally activated delayed fluorescence molecules. Chinese Chemical Letters, 2016, 27, 1445-1452. | 4.8 | 37 |
| 51 | Theoretical study of excited states of <scp>DNA</scp> base dimers and tetramers using optimally tuned rangeâ€separated density functional theory. Journal of Computational Chemistry, 2016, 37, 684-693. | 1.5 | 30 |
| 52 | The Density of States and the Transport Effective Mass in a Highly Oriented Semiconducting Polymer: Electronic Delocalization in 1D. Advanced Materials, 2015, 27, 7759-7765. | 11.1 | 52 |
| 53 | Applicability of optimal functional tuning in density functional calculations of ionization potentials and electron affinities of adenine–thymine nucleobase pairs and clusters. Physical Chemistry Chemical Physics, 2015, 17, 4337-4345. | 1.3 | 32 |
| 54 | Charge-Transfer Versus Charge-Transfer-Like Excitations Revisited. Journal of Chemical Theory and Computation, 2015, 11, 3305-3320. | 2.3 | 75 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Reliable Prediction with Tuned Range-Separated Functionals of the Singlet–Triplet Gap in Organic Emitters for Thermally Activated Delayed Fluorescence. Journal of Chemical Theory and Computation, 2015, 11, 3851-3858. | 2.3 | 362 |
| 56 | Electronic Energy Gaps for π-Conjugated Oligomers and Polymers Calculated with Density Functional Theory. Journal of Chemical Theory and Computation, 2014, 10, 1035-1047. | 2.3 | 142 |
| 57 | Influence of the Delocalization Error and Applicability of Optimal Functional Tuning in Density Functional Calculations of Nonlinear Optical Properties of Organic Donor–Acceptor Chromophores. ChemPhysChem, 2013, 14, 2450-2461. | 1.0 | 119 |