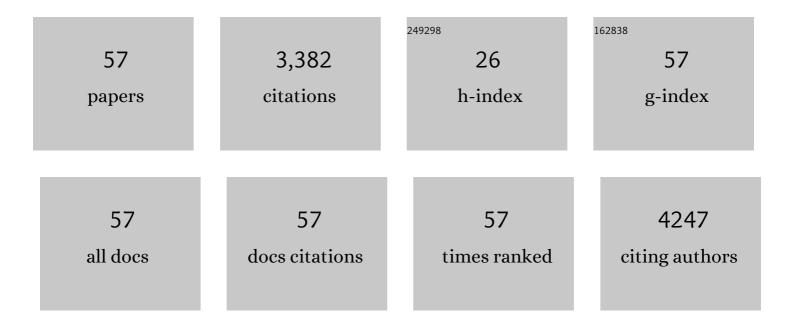
Haitao Sun

List of Publications by Year in descending order

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#	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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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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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