

Yan Wan

List of Publications by Year in descending order

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papers

2,215
citations

430874

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docs citations

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times ranked

3785
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-range hot-carrier transport in hybrid perovskites visualized by ultrafast microscopy. <i>Science</i> , 2017, 356, 59-62.	12.6	434
2	Spatial and temporal imaging of long-range charge transport in perovskite thin films by ultrafast microscopy. <i>Nature Communications</i> , 2015, 6, 7471.	12.8	269
3	Cooperative singlet and triplet exciton transport in tetracene crystals visualized by ultrafast microscopy. <i>Nature Chemistry</i> , 2015, 7, 785-792.	13.6	190
4	Photocarrier generation from interlayer charge-transfer transitions in WS ₂ -graphene heterostructures. <i>Science Advances</i> , 2018, 4, e1700324.	10.3	160
5	A Quinoxaline-Based Copolymer Donor Achieving 17.62% Efficiency of Organic Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2100474.	21.0	155
6	Highly mobile charge-transfer excitons in two-dimensional WS ₂ /tetracene heterostructures. <i>Science Advances</i> , 2018, 4, eaao3104.	10.3	132
7	Promoting charge separation resulting in ternary organic solar cells efficiency over 17.5%. <i>Nano Energy</i> , 2020, 78, 105272.	16.0	132
8	Photophysical properties of rhodamine isomers: A two-photon excited fluorescent sensor for trivalent chromium cation (Cr ³⁺). <i>Analytica Chimica Acta</i> , 2010, 665, 215-220.	5.4	85
9	Two Birds with One Stone: Tailoring Singlet Fission for Both Triplet Yield and Exciton Diffusion Length. <i>Advanced Materials</i> , 2016, 28, 7539-7547.	21.0	69
10	Direct Imaging of Exciton Transport in Tubular Porphyrin Aggregates by Ultrafast Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 7287-7293.	13.7	68
11	Conformational Relaxation and Thermally Activated Delayed Fluorescence in Anthraquinone-Based Intramolecular Charge-Transfer Compound. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3727-3737.	3.1	65
12	Gigantic Two-Photon Absorption Cross Sections and Strong Two-Photon Excited Fluorescence in Pyrene Core Dendrimers with Fluorene/Carbazole as Dendrons and Acetylene as Linkages. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11737-11745.	2.6	54
13	Controllable synthesis, morphology evolution and luminescence properties of NaLa(WO ₄) ₂ microcrystals. <i>CrystEngComm</i> , 2012, 14, 2235.	2.6	52
14	Introducing Low-Cost Pyrazine Unit into Terpolymer Enables High-Performance Polymer Solar Cells with Efficiency of 18.23%. <i>Advanced Functional Materials</i> , 2022, 32, 2109271.	14.9	49
15	Excited-State Symmetry-Breaking Charge Separation Dynamics in Multibranched Perylene Diimide Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10329-10339.	4.6	46
16	Direct Imaging of Frenkel Exciton Transport by Ultrafast Microscopy. <i>Accounts of Chemical Research</i> , 2017, 50, 1725-1733.	15.6	38
17	Transport of Spin-Entangled Triplet Excitons Generated by Singlet Fission. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6731-6738.	4.6	33
18	Enhanced Thermoelectric Performance of n-Type Organic Semiconductor via Electric Field Modulated Photo-Thermoelectric Effect. <i>Advanced Materials</i> , 2020, 32, e2000273.	21.0	31

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19	Ternary All-Polymer Solar Cells with Two Synergetic Donors Enable Efficiency over 14.5%. <i>Energy & Fuels</i> , 2021, 35, 19045-19054.	5.1	15
20	Plasmonic Hot Hole Extraction from CuS Nanodisks Enables Significant Acceleration of Oxygen Evolution Reactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7988-7996.	4.6	14
21	Solvation Controlled Excited-State Planarization in a Push-Pull Pyrene Dye. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8550-8560.	3.1	13
22	Effects of Alkyl Side Chains of Small Molecule Donors on Morphology and the Photovoltaic Property of All-Small-Molecule Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54237-54245.	8.0	13
23	Influence of altering chlorine substitution positions on the photovoltaic properties of small molecule donors in all-small-molecule organic solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2017-2025.	5.5	12
24	Red Light-Emitting Thermally-Activated Delayed Fluorescence of Naphthalimide-Phenoxazine Electron Donor-Acceptor Dyad: Time-Resolved Optical and Magnetic Spectroscopic Studies. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	12
25	Hot Carrier Dynamics and Charge Trapping in Surface Passivated $\text{I}^2\text{-CsPbI}_3$ Inorganic Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6907-6913.	4.6	10
26	Solvent Effect on Excited-State Intramolecular Proton-Coupled Charge Transfer Reaction in Two Seven-Membered Ring Pyrrole-Indole Hydrogen Bond Systems. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11275-11284.	2.6	9
27	Atomic structure of a seed-sized gold nanoprism. <i>Nature Communications</i> , 2022, 13, 1235.	12.8	9
28	Enhancement of two-photon absorption cross section and singlet-oxygen generation in porphyrin-cored star polymers. <i>Science in China Series B: Chemistry</i> , 2009, 52, 56-63.	0.8	8
29	Correlation between Excited-State Intramolecular Proton Transfer and Electron Population on Proton Donor/Acceptor in 2-(2-Hydroxyphenyl)oxazole Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4486-4494.	4.6	7
30	Excited-state localization and energy transfer in pyrene core dendrimers with fluorene/carbazole as the dendrons and acetylene as the linkages. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4134-4143.	2.8	6
31	Bridge-Length- and Solvent-Dependent Charge Separation and Recombination Processes in Donor-Bridge-Acceptor Molecules. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13279-13290.	2.6	5
32	Effect of single electrons on the excited state dynamics of rod-shaped Au_{25} nanoclusters. <i>Nanoscale</i> , 2021, 13, 19438-19445.	5.6	5
33	Ultrafast Photophysics of Multiple-Resonance Ultrapure Blue Emitters. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2729-2739.	2.6	5
34	Photoinduced charge transfer in porphyrin-C60 oligomer. <i>Science China Chemistry</i> , 2010, 53, 419-425.	8.2	3
35	Asymmetrically Doping a Platinum Atom into a Au_{38} Nanocluster for Changing the Electron Configuration and Reactivity in Electrocatalysis. <i>Angewandte Chemie</i> , 0, , .	2.0	3
36	Intramolecular Energy Transfer in a Series of Star-Shaped Molecules with a Central Porphyrin Core and Four Oligocarbazole Arms. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27356-27365.	3.1	2

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37	Delocalized Excitation or Intramolecular Energy Transfer in Pyrene Core Dendrimers. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7717-7725.	4.6	1
38	Triplet-Triplet Energy Transfer inside the Single Organic Nanocrystal Revealed by Microscopic Time Resolved Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11033-11041.	3.1	1