Jiawang Zhou

List of Publications by Year in descending order

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45 papers	1,776 citations	218677 26 h-index	276875 41 g-index
46 all docs	46 docs citations	46 times ranked	2842 citing authors

#	Article	IF	Citations
1	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metalâ€“Organic Framework for Light-Driven CO₂ Reduction. Journal of the American Chemical Society, 2020, 142, 1768-1773.	13.7	163
2	High Conductivity and Electronâ€Transfer Validation in an nâ€Type Fluorideâ€Anionâ€Doped Polymer for Thermoelectrics in Air. Advanced Materials, 2017, 29, 1606928.	21.0	144
3	Selective Extraction of C₇₀ by a Tetragonal Prismatic Porphyrin Cage. Journal of the American Chemical Society, 2018, 140, 13835-13842.	13.7	105
4	Discrete Dimers of Redox-Active and Fluorescent Perylene Diimide-Based Rigid Isosceles Triangles in the Solid State. Journal of the American Chemical Society, 2019, 141, 1290-1303.	13.7	87
5	Singlet Fission in 9,10-Bis(phenylethynyl)anthracene Thin Films. Journal of the American Chemical Society, 2018, 140, 15140-15144.	13.7	84
6	ExTzBox: A Glowing Cyclophane for Live-Cell Imaging. Journal of the American Chemical Society, 2018, 140, 7206-7212.	13.7	84
7	Exciton Conformational Dynamics of Poly(3-hexylthiophene) (P3HT) in Solution from Time-Resolved Resonant-Raman Spectroscopy. Journal of Physical Chemistry Letters, 2012, 3, 1321-1328.	4.6	68
8	Probing Distance Dependent Charge-Transfer Character in Excimers of Extended Viologen Cyclophanes Using Femtosecond Vibrational Spectroscopy. Journal of the American Chemical Society, 2017, 139, 14265-14276.	13.7	68
9	Visibleâ€Lightâ€Triggered Molecular Photoswitch Based on Reversible E/Z Isomerization of a 1,2â€Dicyanoethene Derivative. Angewandte Chemie - International Edition, 2015, 54, 4782-4786.	13.8	58
10	Recent Advances in Nonfullerene Acceptors for Organic Solar Cells. Macromolecular Rapid Communications, 2018, 39, 1700555.	3.9	51
11	Structural Relaxation of Photoexcited Quaterthiophenes Probed with Vibrational Specificity. Journal of Physical Chemistry Letters, 2015, 6, 3496-3502.	4.6	50
12	Unusual blue-shifted acid-responsive photoluminescence behavior in 6-amino-8-cyanobenzo[1,2-b]indolizines. RSC Advances, 2016, 6, 61249-61253.	3.6	48
13	CNOT gate operation on a photogenerated molecular electron spin-qubit pair. Journal of Chemical Physics, 2020, 152, 014503.	3.0	45
14	Reversible Symmetry-Breaking Charge Separation in a Series of Perylenediimide Cyclophanes. Journal of Physical Chemistry C, 2020, 124, 10408-10419.	3.1	44
15	Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane. Journal of the American Chemical Society, 2017, 139, 4107-4116.	13.7	42
16	Study on the knock tendency and cyclical variations of a HCCI engine fueled with n-butanol/n-heptane blends. Energy Conversion and Management, 2017, 133, 548-557.	9.2	39
17	Diastereoselective olefin amidoacylation via photoredox PCET/nickel-dual catalysis: reaction scope and mechanistic insights. Chemical Science, 2020, 11, 4131-4137.	7.4	37
18	Ultrafast photo-induced nuclear relaxation of a conformationally disordered conjugated polymer probed with transient absorption and femtosecond stimulated Raman spectroscopies. Journal of Chemical Physics, 2014, 141, 044201.	3.0	36

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19	Quenching of pHâ€Responsive Luminescence of a Benzoindolizine Sensor by an Ultrafast Hydrogen Shift. Chemistry - A European Journal, 2016, 22, 15212-15215.	3.3	36
20	Fully Conjugated [4]Chrysaorene. Redox-Coupled Anion Binding in a Tetraradicaloid Macrocycle. Journal of the American Chemical Society, 2018, 140, 14474-14480.	13.7	35
21	Ultrafast Raman Spectroscopy as a Probe of Local Structure and Dynamics in Photoexcited Conjugated Materials. Journal of Physical Chemistry Letters, 2016, 7, 3990-4000.	4.6	34
22	Organic room-temperature phosphorescence from halogen-bonded organic frameworks: hidden electronic effects in rigidified chromophores. Chemical Science, 2021, 12, 767-773.	7.4	34
23	Balancing Charge Transfer and Frenkel Exciton Coupling Leads to Excimer Formation in Molecular Dimers: Implications for Singlet Fission. Journal of Physical Chemistry A, 2020, 124, 8478-8487.	2.5	31
24	Stabilizing the Naphthalenediimide Radical within a Tetracationic Cyclophane. Journal of the American Chemical Society, 2019, 141, 16915-16922.	13.7	30
25	Covalent Radical Pairs as Spin Qubits: Influence of Rapid Electron Motion between Two Equivalent Sites on Spin Coherence. Journal of the American Chemical Society, 2018, 140, 13011-13021.	13.7	29
26	Molecular Switching via Multiplicity-Exclusive E/Z Photoisomerization Pathways. Journal of the American Chemical Society, 2015, 137, 10841-10850.	13.7	28
27	Photoinduced Charge Separation in Molecular Silicon. Chemistry - A European Journal, 2016, 22, 6204-6207.	3.3	24
28	TetrazineBox: A Structurally Transformative Toolbox. Journal of the American Chemical Society, 2020, 142, 5419-5428.	13.7	23
29	Asymmetric charge separation and recombination in symmetrically functionalized Ïƒâ€“Ï€ hybrid oligosilanes. Dalton Transactions, 2017, 46, 8716-8726.	3.3	20
30	Substituent effects on energetics and crystal morphology modulate singlet fission in 9,10-bis(phenylethynyl)anthracenes. Journal of Chemical Physics, 2019, 151, 044501.	3.0	20
31	Structural Heterogeneity in the Localized Excited States of Poly(3-hexylthiophene). Journal of Physical Chemistry B, 2016, 120, 5093-5102.	2.6	19
32	Choosing sides: unusual ultrafast charge transfer pathways in an asymmetric electron-accepting cyclophane that binds an electron donor. Chemical Science, 2019, 10, 4282-4292.	7.4	18
33	Effect of Electronâ€“Nuclear Hyperfine Interactions on Multiple-Quantum Coherences in Photogenerated Covalent Radical (Qubit) Pairs. Journal of Physical Chemistry A, 2018, 122, 9392-9402.	2.5	17
34	Near-Infrared Excitation of the peri-Xanthenoxanthene Radical Cation Drives Energy-Demanding Hole Transfer Reactions. Journal of Physical Chemistry C, 2018, 122, 23364-23370.	3.1	17
35	A Metal-Free, Photocatalytic Method for Aerobic Alkane Iodination. Journal of the American Chemical Society, 2021, 143, 19262-19267.	13.7	17
36	Toward a Charged Homo[2]catenane Employing Diazaperopyrenium Homophilic Recognition. Journal of the American Chemical Society, 2018, 140, 6540-6544.	13.7	15

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37	Charge-Transfer Character in Excimers of Perylenediimides Self-Assembled on Anodic Aluminum Oxide Membrane Walls. Journal of Physical Chemistry C, 2020, 124, 4369-4377.	3.1	15
38	A contorted nanographene shelter. Nature Communications, 2021, 12, 5191.	12.8	12
39	Tracking Hole Transport in DNA Hairpins Using a Phenylethynylguanine Nucleobase. Journal of the American Chemical Society, 2017, 139, 12084-12092.	13.7	9
40	Spin-Polarized Molecular Triplet States as Qubits: Phosphorus Hyperfine Coupling in the Triplet State of Benzoisophosphinoline. Journal of Physical Chemistry Letters, 2020, 11, 7569-7574.	4.6	7
41	A four-state fluorescent molecular switch. Chemical Communications, 2018, 54, 12041-12044.	4.1	4
42	Excited-State Dynamics of Perylene-Based Chromophore Assemblies on Nanoporous Anodic Aluminum Oxide Membranes. Journal of Physical Chemistry C, 2021, 125, 14843-14853.	3.1	4
43	Singlet fission in core-linked terrylenediimide dimers. Journal of Chemical Physics, 2020, 153, 244306.	3.0	4
44	Energy- and conformer-dependent excited-state relaxation of an E/Z photoswitchable thienyl-ethene. Physical Chemistry Chemical Physics, 2019, 21, 14440-14452.	2.8	3
45	Design principles for efficient singlet fission in anthracene-based organic semiconductors. , 2019, , .		0