

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
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46
all docs

46
docs citations

46
times ranked

2842
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic room-temperature phosphorescence from halogen-bonded organic frameworks: hidden electronic effects in rigidified chromophores. <i>Chemical Science</i> , 2021, 12, 767-773.	7.4	34
2	Excited-State Dynamics of Perylene-Based Chromophore Assemblies on Nanoporous Anodic Aluminum Oxide Membranes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14843-14853.	3.1	4
3	A contorted nanographene shelter. <i>Nature Communications</i> , 2021, 12, 5191.	12.8	12
4	A Metal-Free, Photocatalytic Method for Aerobic Alkane Iodination. <i>Journal of the American Chemical Society</i> , 2021, 143, 19262-19267.	13.7	17
5	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metal-Organic Framework for Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 1768-1773.	13.7	163
6	CNOT gate operation on a photogenerated molecular electron spin-qubit pair. <i>Journal of Chemical Physics</i> , 2020, 152, 014503.	3.0	45
7	Balancing Charge Transfer and Frenkel Exciton Coupling Leads to Excimer Formation in Molecular Dimers: Implications for Singlet Fission. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8478-8487.	2.5	31
8	Spin-Polarized Molecular Triplet States as Qubits: Phosphorus Hyperfine Coupling in the Triplet State of Benzoisophosphinoline. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7569-7574.	4.6	7
9	Diastereoselective olefin amidacylation <i>via</i> photoredox PCET/nickel-dual catalysis: reaction scope and mechanistic insights. <i>Chemical Science</i> , 2020, 11, 4131-4137.	7.4	37
10	TetrazineBox: A Structurally Transformative Toolbox. <i>Journal of the American Chemical Society</i> , 2020, 142, 5419-5428.	13.7	23
11	Charge-Transfer Character in Excimers of Perylenediimides Self-Assembled on Anodic Aluminum Oxide Membrane Walls. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4369-4377.	3.1	15
12	Reversible Symmetry-Breaking Charge Separation in a Series of Perylenediimide Cyclophanes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10408-10419.	3.1	44
13	Singlet fission in core-linked terrylenediimide dimers. <i>Journal of Chemical Physics</i> , 2020, 153, 244306.	3.0	4
14	Substituent effects on energetics and crystal morphology modulate singlet fission in 9,10-bis(phenylethynyl)anthracenes. <i>Journal of Chemical Physics</i> , 2019, 151, 044501.	3.0	20
15	Stabilizing the Naphthalenediimide Radical within a Tetracationic Cyclophane. <i>Journal of the American Chemical Society</i> , 2019, 141, 16915-16922.	13.7	30
16	Energy- and conformer-dependent excited-state relaxation of an <i>E/Z</i> photoswitchable thienyl-ethene. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14440-14452.	2.8	3
17	Choosing sides: unusual ultrafast charge transfer pathways in an asymmetric electron-accepting cyclophane that binds an electron donor. <i>Chemical Science</i> , 2019, 10, 4282-4292.	7.4	18
18	Discrete Dimers of Redox-Active and Fluorescent Perylene Diimide-Based Rigid Isosceles Triangles in the Solid State. <i>Journal of the American Chemical Society</i> , 2019, 141, 1290-1303.	13.7	87

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19	Design principles for efficient singlet fission in anthracene-based organic semiconductors. , 2019, , .		0
20	Toward a Charged Homo[2]catenane Employing Diazaperopyrenium Homophilic Recognition. Journal of the American Chemical Society, 2018, 140, 6540-6544.	13.7	15
21	Recent Advances in Nonfullerene Acceptors for Organic Solar Cells. Macromolecular Rapid Communications, 2018, 39, 1700555.	3.9	51
22	A four-state fluorescent molecular switch. Chemical Communications, 2018, 54, 12041-12044.	4.1	4
23	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
24	Selective Extraction of C ₇₀ by a Tetragonal Prismatic Porphyrin Cage. Journal of the American Chemical Society, 2018, 140, 13835-13842.	13.7	105
25	Near-Infrared Excitation of the <i>peri</i>-Xanthenoxanthene Radical Cation Drives Energy-Demanding Hole Transfer Reactions. Journal of Physical Chemistry C, 2018, 122, 23364-23370.	3.1	17
26	Fully Conjugated [4]Chrysaorene. Redox-Coupled Anion Binding in a Tetradicaloid Macrocycle. Journal of the American Chemical Society, 2018, 140, 14474-14480.	13.7	35
27	Singlet Fission in 9,10-Bis(phenylethynyl)anthracene Thin Films. Journal of the American Chemical Society, 2018, 140, 15140-15144.	13.7	84
28	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
29	ExTzBox: A Glowing Cyclophane for Live-Cell Imaging. Journal of the American Chemical Society, 2018, 140, 7206-7212.	13.7	84
30	Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane. Journal of the American Chemical Society, 2017, 139, 4107-4116.	13.7	42
31	Asymmetric charge separation and recombination in symmetrically functionalized ĩŕ hybrid oligosilanes. Dalton Transactions, 2017, 46, 8716-8726.	3.3	20
32	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
33	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
34	Tracking Hole Transport in DNA Hairpins Using a Phenylethynylguanine Nucleobase. Journal of the American Chemical Society, 2017, 139, 12084-12092.	13.7	9
35	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
36	Photoinduced Charge Separation in Molecular Silicon. Chemistry - A European Journal, 2016, 22, 6204-6207.	3.3	24

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37	Structural Heterogeneity in the Localized Excited States of Poly(3-hexylthiophene). <i>Journal of Physical Chemistry B</i> , 2016, 120, 5093-5102.	2.6	19
38	Quenching of pH-Responsive Luminescence of a Benzoindolizine Sensor by an Ultrafast Hydrogen Shift. <i>Chemistry - A European Journal</i> , 2016, 22, 15212-15215.	3.3	36
39	Ultrafast Raman Spectroscopy as a Probe of Local Structure and Dynamics in Photoexcited Conjugated Materials. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3990-4000.	4.6	34
40	Unusual blue-shifted acid-responsive photoluminescence behavior in 6-amino-8-cyanobenzo[1,2-b]indolizines. <i>RSC Advances</i> , 2016, 6, 61249-61253.	3.6	48
41	Visible-Light-Triggered Molecular Photoswitch Based on Reversible <i>E/Z</i> Isomerization of a 1,2-Dicyanoethene Derivative. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4782-4786.	13.8	58
42	Molecular Switching via Multiplicity-Exclusive <i>E/Z</i> Photoisomerization Pathways. <i>Journal of the American Chemical Society</i> , 2015, 137, 10841-10850.	13.7	28
43	Structural Relaxation of Photoexcited Quaterthiophenes Probed with Vibrational Specificity. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3496-3502.	4.6	50
44	Ultrafast photo-induced nuclear relaxation of a conformationally disordered conjugated polymer probed with transient absorption and femtosecond stimulated Raman spectroscopies. <i>Journal of Chemical Physics</i> , 2014, 141, 044201.	3.0	36
45	Exciton Conformational Dynamics of Poly(3-hexylthiophene) (P3HT) in Solution from Time-Resolved Resonant-Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1321-1328.	4.6	68