Chao Wang

List of Publications by Year in Descending Order

40 papers	625 citations	14 h-index	24 g-index
42 ext. papers	1,052 ext. citations	8.5 avg, IF	4.55 L-index

#	Paper	IF	Citations
40	Twisted intramolecular charge transfer (TICT) and twists beyond TICT: from mechanisms to rational designs of bright and sensitive fluorophores. *Chemical Society Reviews*, **2021**, 50, 12656-12678	58.5	28
39	Emerging Design Principle of Near-Infrared Upconversion Sensitizer Based on Mitochondria-Targeted Organic Dye for Enhanced Photodynamic Therapy. *Chemistry - A European Journal*, **2021**, 27, 16707-16715	4.8	1
38	Aggregation-induced emission or aggregation-caused quenching? Impact of covalent bridge between tetraphenylethene and naphthalimide. *Chinese Chemical Letters*, **2021**, 32, 1790-1794	8.1	9
37	Energy transfer followed by electron transfer (ETET) endows a TPE-NBD dyad with enhanced environmental sensitivity. *Chinese Chemical Letters*, **2021**, 32, 1937-1941	8.1	3
36	Water-soluble polyaromatic-based imidazolium for detecting picric acid: Pyrene vs. anthracene. *Sensors and Actuators B: Chemical*, **2021**, 330, 129287	8.5	10
35	A unified fluorescence quenching mechanism of tetrazine-based fluorogenic dyes: energy transfer to a dark state. *Materials Chemistry Frontiers*, **2021**, 5, 7012-7021	7.8	2
34	Theoretical studies on triplet formations in nitrobenzoxadiazole (NBD) derivatives: The impact of donor group and heteroatom substitution. *Results in Chemistry*, **2021**, 3, 100116	2.1	
33	State-crossing from a Locally Excited to an Electron Transfer State(SLEET) Model Rationalizing the Aggregation-induced Emission Mechanism of (Bi)piperidylanthracenes. *Chemical Research in Chinese Universities*, **2021**, 37, 157-161	2.2	4
32	Methine-Quinoidal Fragment Induces Significant Bathochromic Shifts in Organic Dyes. *Journal of Physical Chemistry B*, **2021**, 125, 1447-1452	3.4	3
31	Restriction of Twisted Intramolecular Charge Transfer Enables the Aggregation-Induced Emission of 1-(,-Dialkylamino)-naphthalene Derivatives. *Journal of Physical Chemistry A*, **2021**, 125, 8397-8403	2.8	6
30	Stable Super-Resolution Imaging of Lipid Droplet Dynamics through a Buffer Strategy with a Hydrogen-Bond Sensitive Fluorogenic Probe. *Angewandte Chemie - International Edition*, **2021**, 60, 25104-25113	16.4	7
29	A General Method to Develop Highly Environmentally Sensitive Fluorescent Probes and AIEgens.. *Advanced Science*, **2021**, e2104609	13.6	2
28	Weakly Conjugated Phosphine Oxide Hosts for Efficient Blue Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 30591-30599	9.5	6
27	A General Descriptor Enables the Quantitative Development of Luminescent Materials Based on Photoinduced Electron Transfer. *Journal of the American Chemical Society*, **2020**, 142, 6777-6785	16.4	57
26	Expanding the hole delocalization range in excited molecules for stable organic light-emitting diodes employing thermally activated delayed fluorescence. *Journal of Materials Chemistry C*, **2020**, 8, 10021-10030	7.1	3
25	A Sequential Dual-Lock Strategy for Photoactivatable Chemiluminescent Probes Enabling Bright Duplex Optical Imaging. *Angewandte Chemie - International Edition*, **2020**, 59, 9059-9066	16.4	56
24	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. *Angewandte Chemie - International Edition*, **2020**, 59, 6915-6922	16.4	31

23	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. *Angewandte Chemie*, **2020**, 132, 6982-6989	3.6	9
22	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). *Angewandte Chemie - International Edition*, **2020**, 59, 10160-10172	16.4	72
21	Efficient and Stable Organic Light-Emitting Diodes Employing Indolo[2,3-]indole-Based Thermally Activated Delayed Fluorescence Emitters. *ACS Applied Materials & Interfaces*, **2020**, 12, 6127-6136	9.5	15
20	Molecular Origins of Heteroatom Engineering on the Emission Wavelength Tuning, Quantum Yield Variations and Fluorogenicity of NBD-like SCOTfluors. *Chemistry - an Asian Journal*, **2020**, 15, 4082-4086	4.5	5
19	Molecular Origins of Photoinduced Backward Intramolecular Charge Transfer. *Journal of Physical Chemistry C*, **2020**, 124, 16820-16826	3.8	10
18	Descriptor Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. *Angewandte Chemie - International Edition*, **2020**, 59, 20215-20223	16.4	16
17	Fluorophore-Promoted Facile Deprotonation and Exocyclic Five-Membered Ring Cyclization for Selective and Dynamic Tracking of Labile Glyoxals. *Analytical Chemistry*, **2020**, 92, 13829-13838	7.8	5
16	Multicationic AIEgens for unimolecular photodynamic theranostics and two-photon fluorescence bioimaging. *Materials Chemistry Frontiers*, **2020**, 4, 1623-1633	7.8	16
15	Quaternary Piperazine-Substituted Rhodamines with Enhanced Brightness for Super-Resolution Imaging. *Journal of the American Chemical Society*, **2019**, 141, 14491-14495	16.4	76
14	Control of the dual emission from a thermally activated delayed fluorescence emitter containing phenothiazine units in organic light-emitting diodes.. *RSC Advances*, **2019**, 9, 4336-4343	3.7	18
13	A ruthenium bisoxazoline complex as a photoredox catalyst for nitro compound reduction under visible light. *Dalton Transactions*, **2019**, 48, 9949-9953	4.3	5
12	A dual-site modulated FRET-based two-photon ratiometric fluorescent probe for tracking lysosomal pH changes in living cells, tissues and zebrafish. *Sensors and Actuators B: Chemical*, **2019**, 290, 79-86	8.5	34
11	Toward an Accurate Description of Thermally Activated Delayed Fluorescence: Equal Importance of Electronic and Geometric Factors. *Journal of Physical Chemistry C*, **2019**, 123, 13869-13876	3.8	8
10	Understanding Solid-State Solvation-Enhanced Thermally Activated Delayed Fluorescence Using a Descriptor-Tuned Screened Range-Separated Functional. *Journal of Physical Chemistry C*, **2019**, 123, 4407-4416	3.8	23
9	Computational prediction for oxidation and reduction potentials of organic molecules used in organic light-emitting diodes. *Organic Electronics*, **2019**, 64, 216-222	3.5	15
8	Prediction of Intramolecular Charge-Transfer Excitation for Thermally Activated Delayed Fluorescence Molecules from a Descriptor-Tuned Density Functional. *Journal of Physical Chemistry C*, **2018**, 122, 7816-7823	3.8	26
7	The influence of aggregation on the third-order nonlinear optical property of conjugated chromophores: the case of cyanine dyes. *Physical Chemistry Chemical Physics*, **2018**, 20, 16777-16785	3.6	7
6	Assessment of range-separated exchange functionals and nonempirical functional tuning for calculating the static second hyperpolarizabilities of streptocyanines. *Journal of Computational Chemistry*, **2017**, 38, 594-600	3.5	6

5	Organic thin films with charge-carrier mobility exceeding that of single crystals. *Journal of Materials Chemistry C*, **2017**, 5, 10313-10319	7.1	8
4	The effect of heteroatoms and end groups of polymethines on the all-optical switching processing application: a CC2 calculation. *Structural Chemistry*, **2016**, 27, 1211-1220	1.8	5
3	Recognition of halides and Y-shaped oxoanions by carbonylchromium-based urea-like molecules: A theoretical analysis of hydrogen bonding modes. *Journal of Molecular Graphics and Modelling*, **2016**, 64, 1-10	2.8	3
2	The effects of exact exchange of density functionals on the evaluation of second hyperpolarizabilities of streptocyanines using sum-over-states method. *Computational and Theoretical Chemistry*, **2016**, 1085, 40-45	2	6
1	A theoretical study on the structural dependences of third-order optical nonlinearities of heterocycle-substituted polymethine cyanine chromophores. *Chemical Physics Letters*, **2013**, 583, 185-189	2.5	6