

Kai Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

2,197
citations

26
h-index

44
g-index

44
ext. papers

2,555
ext. citations

12.5
avg, IF

4.87
L-index

#	Paper	IF	Citations
43	Photo-induced enhancement of lattice fluctuations in metal-halide perovskites.. <i>Nature Communications</i> , 2022 , 13, 1019	17.4	0
42	Recent Structural Engineering of Polymer Semiconductors Incorporating Hydrogen Bonds.. <i>Advanced Materials</i> , 2022 , e2110639	24	4
41	Impact of Photoluminescence Reabsorption in Metal-Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100029	7.1	4
40	Wide and Tunable Bandgap MAPbBr ₃ /Clx Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000718	7.1	10
39	A synergy between the push-pull electronic effect and twisted conformation for high-contrast mechanochromic AIEgens. <i>Materials Horizons</i> , 2021 , 8, 630-638	14.4	17
38	Defect Passivation in Perovskite Solar Cells by Cyano-Based π -Conjugated Molecules for Improved Performance and Stability. <i>Advanced Functional Materials</i> , 2020 , 30, 2002861	15.6	43
37	Impact of Cesium/Rubidium Incorporation on the Photophysics of Multiple-Cation Lead Halide Perovskites. <i>Solar Rrl</i> , 2020 , 4, 2000072	7.1	8
36	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1095-1104	13	49
35	Recent advances in organic pressure-responsive luminescent materials. <i>Chinese Chemical Letters</i> , 2019 , 30, 1883-1894	8.1	23
34	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI ₃ : An In Situ Investigation. <i>Advanced Functional Materials</i> , 2019 , 29, 1807544	15.6	36
33	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1808357	24	57
32	Triarylphosphine Oxide as Cathode Interfacial Material for Inverted Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900434	4.6	11
31	Polysilicon Passivating Contacts for Silicon Solar Cells: Interface Passivation and Carrier Transport Mechanism. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4609-4617	6.1	23
30	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. <i>Joule</i> , 2019 , 3, 1746-1764	17.8	118
29	Impact of Nonfullerene Acceptor Core Structure on the Photophysics and Efficiency of Polymer Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 802-811	20.1	38
28	Solvent Vapor Annealing-Mediated Crystallization Directs Charge Generation, Recombination and Extraction in BHJ Solar Cells. <i>Chemistry of Materials</i> , 2018 , 30, 789-798	9.6	37
27	Additive-Morphology Interplay and Loss Channels in All-Small-Molecule Bulk-heterojunction (BHJ) Solar Cells with the Nonfullerene Acceptor IDTTBM. <i>Advanced Functional Materials</i> , 2018 , 28, 1705464	15.6	34

26	Ratiometric Piezochromism of Electrospun Polymer Films: Intermolecular Interactions for Enhanced Sensitivity and Color Difference. <i>ChemPlusChem</i> , 2018 , 83, 132-139	2.8	9
25	Fluorination Triggered New Small Molecule Donor Materials for Efficient As-Cast Organic Solar Cells. <i>Small</i> , 2018 , 14, e1801542	11	20
24	Piezochromic luminescence of AIE-active molecular co-crystals: tunable multiple hydrogen bonding and molecular packing. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9660-9666	7.1	34
23	A Universal Double-Side Passivation for High Open-Circuit Voltage in Perovskite Solar Cells: Role of Carbonyl Groups in Poly(methyl methacrylate). <i>Advanced Energy Materials</i> , 2018 , 8, 1801208	21.8	268
22	Dual fluorescence polymorphs: Wide-range emission from blue to red regulated by TICT and their dynamic electron state behavior under external pressure. <i>Dyes and Pigments</i> , 2017 , 145, 294-300	4.6	15
21	Benzo[1,2-b:4,5-b']dithiophene β ,7-Difluoroquinoxaline Small Molecule Donors with >8% BHJ Solar Cell Efficiency. <i>Advanced Energy Materials</i> , 2017 , 7, 1602804	21.8	11
20	Donor and Acceptor Unit Sequences Influence Material Performance in Benzo[1,2-b:4,5-b']dithiophene β ,7-Difluoroquinoxaline Small Molecule Donors for BHJ Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 7103-7114	15.6	20
19	Solvent Annealing Effects in Dithieno[3,2-b:2',3'-d]pyrrole β ,6-Difluorobenzo[c][1,2,5]thiadiazole Small Molecule Donors for Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 5415-5425	9.6	26
18	Benzo[1,2-b:4,5-b']dithiophene β Pyrido[3,4-b]pyrazine Small-Molecule Donors for Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 2058-2066	9.6	36
17	β Bridge-Independent 2-(Benzo[c][1,2,5]thiadiazol-4-ylmethylene)malononitrile-Substituted Nonfullerene Acceptors for Efficient Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 2200-2208	9.6	86
16	The facile realization of luminescence based on one yellow emissive four-coordinate organoboron material. <i>Chemical Communications</i> , 2015 , 51, 7701-4	5.8	39
15	Luminescent chromism of boron diketonate crystals: distinct responses to different stresses. <i>Advanced Materials</i> , 2015 , 27, 2918-22	24	195
14	Structurally simple phenanthroimidazole-based bipolar hosts for high-performance green and red electroluminescent devices. <i>RSC Advances</i> , 2015 , 5, 73926-73934	3.7	13
13	Organic Crystals with Near-Infrared Amplified Spontaneous Emissions Based on 2'-Hydroxychalcone Derivatives: Subtle Structure Modification but Great Property Change. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8369-73	16.4	118
12	Organic Crystals with Near-Infrared Amplified Spontaneous Emissions Based on 2'-Hydroxychalcone Derivatives: Subtle Structure Modification but Great Property Change. <i>Angewandte Chemie</i> , 2015 , 127, 8489-8493	3.6	34
11	Polymorphic crystals and their luminescence switching of triphenylacrylonitrile derivatives upon solvent vapour, mechanical, and thermal stimuli. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3049-3054	7.1	70
10	Crystallization-induced red emission of a facilely synthesized biodegradable indigo derivative. <i>Chemical Communications</i> , 2015 , 51, 3375-8	5.8	38
9	Organic polymorphs: one-compound-based crystals with molecular-conformation- and packing-dependent luminescent properties. <i>Advanced Materials</i> , 2014 , 26, 6168-73	24	224

8	High-Performance Red, Green, and Blue Electroluminescent Devices Based on Blue Emitters with Small Singlet-Triplet Splitting and Ambipolar Transport Property. <i>Advanced Functional Materials</i> , 2013 , 23, 2672-2680	15.6	127
7	Constructing high-performance blue, yellow and red electroluminescent devices based on a class of multifunctional organic materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6594	7.1	32
6	Pentaphenylphenyl substituted quinacridone exhibiting intensive emission in both solution and solid state. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 410-413	7.1	29
5	Multicolor fluorescence and electroluminescence of an ICT-type organic solid tuned by modulating the accepting nature of the central core. <i>Chemical Science</i> , 2013 , 4, 3288	9.4	95
4	Active modulation of wavelength and radiation direction of fluorescence via liquid crystal-tuned surface plasmons. <i>Applied Physics Letters</i> , 2013 , 102, 051107	3.4	9
3	Luminescent Dendrimers Composed of Quinacridone Core and Carbazole Dendrons: Structure, Electrochemical, and Photophysical Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17796-17806	3.8	33
2	Brightly fluorescent red organic solids bearing boron-bridged π -conjugated skeletons. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15298		65
1	Ligand-bridged charge extraction and enhanced quantum efficiency enable efficient n-i-p perovskite/silicon tandem solar cells. <i>Energy and Environmental Science</i> ,	35.4	26