

Xiao-Hong Zhang

List of Publications by Year in descending order

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497
papers

24,683
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6233

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14156

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506
docs citations

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times ranked

24272
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ /Si Heterojunction with Vertically Standing Layered Structure for Ultrafast, High-Detectivity, Self-Driven Visible-Near Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2015, 25, 2910-2919.	7.8	554
2	Fluorescence Turn On of Coumarin Derivatives by Metal Cations: A New Signaling Mechanism Based on C=N Isomerization. <i>Organic Letters</i> , 2007, 9, 33-36.	2.4	536
3	Strategies for Preparing Albumin-based Nanoparticles for Multifunctional Bioimaging and Drug Delivery. <i>Theranostics</i> , 2017, 7, 3667-3689.	4.6	349
4	Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability. <i>Advanced Materials</i> , 2016, 28, 2201-2208.	11.1	346
5	High-Yield Seedless Synthesis of Triangular Gold Nanoplates through Oxidative Etching. <i>Nano Letters</i> , 2014, 14, 7201-7206.	4.5	334
6	High-Responsivity, High-Detectivity, Ultrafast Topological Insulator Bi ₂ Se ₃ /Silicon Heterostructure Broadband Photodetectors. <i>ACS Nano</i> , 2016, 10, 5113-5122.	7.3	300
7	Prediction and Design of Efficient Exciplex Emitters for High-Efficiency, Thermally Activated Delayed-Fluorescence Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2015, 27, 2378-2383.	11.1	299
8	Highly Efficient Non-Doped Blue Organic Light-Emitting Diodes Based on Fluorene Derivatives with High Thermal Stability. <i>Advanced Functional Materials</i> , 2005, 15, 1716-1721.	7.8	276
9	Remanagement of Singlet and Triplet Excitons in Single-Emissive-Layer Hybrid White Organic Light-Emitting Devices Using Thermally Activated Delayed Fluorescent Blue Exciplex. <i>Advanced Materials</i> , 2015, 27, 7079-7085.	11.1	255
10	Red/Near-Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100% Internal Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14660-14665.	7.2	247
11	Ultrahigh-Responsivity Photodetectors from Perovskite Nanowire Arrays for Sequentially Tunable Spectral Measurement. <i>Nano Letters</i> , 2017, 17, 2482-2489.	4.5	242
12	Management of Singlet and Triplet Excitons in a Single Emission Layer: A Simple Approach for a High-Efficiency Fluorescence/Phosphorescence Hybrid White Organic Light-Emitting Device. <i>Advanced Materials</i> , 2012, 24, 3410-3414.	11.1	232
13	Organometal Halide Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 4797-4802.	7.8	231
14	Nearly 100% Triplet Harvesting in Conventional Fluorescent Dopant-Based Organic Light-Emitting Devices Through Energy Transfer from Exciplex. <i>Advanced Materials</i> , 2015, 27, 2025-2030.	11.1	225
15	Bipolar Phenanthroimidazole Derivatives Containing Bulky Polyaromatic Hydrocarbons for Nondoped Blue Electroluminescence Devices with High Efficiency and Low Efficiency Roll-Off. <i>Chemistry of Materials</i> , 2013, 25, 4957-4965.	3.2	214
16	Ultrafast, Broadband Photodetector Based on MoSe ₂ /Silicon Heterojunction with Vertically Standing Layered Structure Using Graphene as Transparent Electrode. <i>Advanced Science</i> , 2016, 3, 1600018.	5.6	210
17	Excellent Photocatalysis of HF-Treated Silicon Nanowires. <i>Journal of the American Chemical Society</i> , 2009, 131, 17738-17739.	6.6	209
18	Novel Efficient Blue Fluorophors with Small Singlet-Triplet Splitting: Hosts for Highly Efficient Fluorescence and Phosphorescence Hybrid WOLEDs with Simplified Structure. <i>Advanced Materials</i> , 2013, 25, 2205-2211.	11.1	206

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19	Avoiding Energy Loss on TADF Emitters: Controlling the Dual Conformations of Dâ€‘A Structure Molecules Based on the Pseudoplanar Segments. <i>Advanced Materials</i> , 2017, 29, 1701476.	11.1	199
20	Greenhouse-inspired supra-photothermal CO ₂ catalysis. <i>Nature Energy</i> , 2021, 6, 807-814.	19.8	198
21	All-inorganic cesium lead halide perovskite nanocrystals: synthesis, surface engineering and applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 757-789.	2.7	193
22	Biodegradable IË-Conjugated Oligomer Nanoparticles with High Photothermal Conversion Efficiency for Cancer Theranostics. <i>ACS Nano</i> , 2019, 13, 12901-12911.	7.3	191
23	Reduction of Self-Quenching Effect in Organic Electrophosphorescence Emitting Devices via the Use of Sterically Hindered Spacers in Phosphorescence Molecules. <i>Advanced Materials</i> , 2001, 13, 1245.	11.1	188
24	ZnO Nanotube Arrays as Biosensors for Glucose. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20169-20172.	1.5	187
25	Red Organic Light-Emitting Diode with External Quantum Efficiency beyond 20% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Science</i> , 2018, 5, 1800436.	5.6	186
26	Single-Crystal Nanoribbons, Nanotubes, and Nanowires from Intramolecular Charge-Transfer Organic Molecules. <i>Journal of the American Chemical Society</i> , 2007, 129, 3527-3532.	6.6	185
27	Novel Strategy to Develop Exciplex Emitters for High-Performance OLEDs by Employing Thermally Activated Delayed Fluorescence Materials. <i>Advanced Functional Materials</i> , 2016, 26, 2002-2008.	7.8	181
28	Carbazole/Sulfone Hybrid D-IË-A-Structured Bipolar Fluorophores for High-Efficiency Blue-Violet Electroluminescence. <i>Chemistry of Materials</i> , 2013, 25, 2630-2637.	3.2	180
29	L-Type Ligand-Assisted Acid-Free Synthesis of CsPbBr ₃ Nanocrystals with Near-Unity Photoluminescence Quantum Yield and High Stability. <i>Nano Letters</i> , 2019, 19, 4151-4157.	4.5	177
30	Controlled synthesis of oriented single-crystal ZnO nanotube arrays on transparent conductive substrates. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	175
31	Solution-Processed 3D RGO-MoS ₂ /Pyramid Si Heterojunction for Ultrahigh Detectivity and Ultra-Broadband Photodetection. <i>Advanced Materials</i> , 2018, 30, e1801729.	11.1	175
32	Multifunctional electron-transporting indolizine derivatives for highly efficient blue fluorescence, orange phosphorescence host and two-color based white OLEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 4502.	6.7	172
33	Thermally Activated Delayed Fluorescence Carbonyl Derivatives for Organic Light-Emitting Diodes with Extremely Narrow Full Width at Half-Maximum. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13472-13480.	4.0	165
34	Highly Efficient Photoelectrochemical Water Splitting from Hierarchical WO ₃ /BiVO ₄ Nanoporous Sphere Arrays. <i>Nano Letters</i> , 2017, 17, 8012-8017.	4.5	164
35	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO ₂ Photocatalysis. <i>ACS Nano</i> , 2021, 15, 5696-5705.	7.3	164
36	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12360-12364.	7.2	160

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37	In Vivo tumor-targeted dual-modal fluorescence/CT imaging using a nanoprobe co-loaded with an aggregation-induced emission dye and gold nanoparticles. <i>Biomaterials</i> , 2015, 42, 103-111.	5.7	157
38	New Fluorescent Chemosensor Based on Exciplex Signaling Mechanism. <i>Organic Letters</i> , 2005, 7, 2133-2136.	2.4	155
39	Direct Evidence of Molecular Aggregation and Degradation Mechanism of Organic Light-Emitting Diodes under Joule Heating: An STM and Photoluminescence Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1675-1682.	1.2	151
40	Self-Monitoring and Self-Delivery of Photosensitizer-Doped Nanoparticles for Highly Effective Combination Cancer Therapy <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Nano</i> , 2015, 9, 9741-9756.	7.3	149
41	Silicon Nanowire/Polymer Hybrid Solar Cell-Supercapacitor: A Self-Charging Power Unit with a Total Efficiency of 10.5%. <i>Nano Letters</i> , 2017, 17, 4240-4247.	4.5	149
42	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. <i>Joule</i> , 2018, 2, 1369-1381.	11.7	148
43	Surface Charge Transfer Doping of Low-Dimensional Nanostructures toward High-Performance Nanodevices. <i>Advanced Materials</i> , 2016, 28, 10409-10442.	11.1	144
44	A New Family of Red Dopants Based on Chromene-Containing Compounds for Organic Electroluminescent Devices. <i>Chemistry of Materials</i> , 2001, 13, 1565-1569.	3.2	140
45	Self-carried curcumin nanoparticles for <i>in vitro</i> and <i>in vivo</i> cancer therapy with real-time monitoring of drug release. <i>Nanoscale</i> , 2015, 7, 13503-13510.	2.8	139
46	High-Sensitivity and Fast-Response Graphene/Crystalline Silicon Schottky Junction-Based Near-IR Photodetectors. <i>IEEE Electron Device Letters</i> , 2013, 34, 1337-1339.	2.2	136
47	Alignment and Patterning of Ordered Small-Molecule Organic Semiconductor Micro/Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016, 28, 2475-2503.	11.1	129
48	Wafer-Scale Synthesis of Single-Crystal Zigzag Silicon Nanowire Arrays with Controlled Turning Angles. <i>Nano Letters</i> , 2010, 10, 864-868.	4.5	128
49	Intermolecular Charge-Transfer Transition Emitter Showing Thermally Activated Delayed Fluorescence for Efficient Non-Doped OLEDs. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9480-9484.	7.2	128
50	Single-Crystal Organic Microtubes with a Rectangular Cross Section. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1525-1528.	7.2	127
51	Facile One-Step Growth and Patterning of Aligned Squaraine Nanowires via Evaporation-Induced Self-Assembly. <i>Advanced Materials</i> , 2008, 20, 1716-1720.	11.1	123
52	Surface passivation and band engineering: a way toward high efficiency graphene-planar Si solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8567.	5.2	123
53	A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9902-9906.	7.2	123
54	Highly Efficient Nondoped Blue Organic Light-Emitting Diodes Based on Anthracene-Triphenylamine Derivatives. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14603-14606.	1.5	122

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55	Highly Stable Near-Infrared Fluorescent Organic Nanoparticles with a Large Stokes Shift for Noninvasive Long-Term Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26266-26274.	4.0	122
56	Bipolar Molecule as an Excellent Hole-Transporter for Organic-Light Emitting Devices. <i>Chemistry of Materials</i> , 2009, 21, 1284-1287.	3.2	121
57	A Sustainable Redox-Flow Battery with an Aluminum-Based, Deep-Eutectic-Solvent Anolyte. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7454-7459.	7.2	121
58	Managing Locally Excited and Charge-Transfer Triplet States to Facilitate Up-Conversion in Red TADF Emitters That Are Available for Both Vacuum- and Solution-Processes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2478-2484.	7.2	116
59	Highly efficient non-doped deep-blue organic light-emitting diodes based on anthracene derivatives. <i>Journal of Materials Chemistry</i> , 2010, 20, 1560.	6.7	115
60	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. <i>Nano Energy</i> , 2017, 31, 359-366.	8.2	114
61	Novel Carbazol-Pyridine-Carbonitrile Derivative as Excellent Blue Thermally Activated Delayed Fluorescence Emitter for Highly Efficient Organic Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18930-18936.	4.0	111
62	Cobalt Plasmonic Superstructures Enable Almost 100% Broadband Photon Efficient CO ₂ Photocatalysis. <i>Advanced Materials</i> , 2020, 32, e2000014.	11.1	109
63	Photoconductivity of a Single Small-Molecule Organic Nanowire. <i>Advanced Materials</i> , 2008, 20, 2427-2432.	11.1	108
64	Electrochemical/chemical synthesis of highly-oriented single-crystal ZnO nanotube arrays on transparent conductive substrates. <i>Electrochemistry Communications</i> , 2007, 9, 2784-2788.	2.3	106
65	Highly Concentrated Phthalimide-Based Anolytes for Organic Redox Flow Batteries with Enhanced Reversibility. <i>CHEM</i> , 2018, 4, 2814-2825.	5.8	105
66	Carrier-free functionalized multidrug nanorods for synergistic cancer therapy. <i>Biomaterials</i> , 2013, 34, 8960-8967.	5.7	104
67	2D Ruddlesden-Popper Perovskite Nanoplate Based Deep-Blue Light-Emitting Diodes for Light Communication. <i>Advanced Functional Materials</i> , 2019, 29, 1903861.	7.8	101
68	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. <i>Materials Today</i> , 2019, 24, 17-25.	8.3	98
69	Polyhedral Organic Microcrystals: From Cubes to Rhombic Dodecahedra. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9121-9123.	7.2	97
70	Morphology-Controllable Synthesis of Pyrene Nanostructures and Its Morphology Dependence of Optical Properties. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18777-18780.	1.2	96
71	The fabrication and optical properties of highly crystalline ultra-long Cu-doped ZnO nanowires. <i>Nanotechnology</i> , 2004, 15, 1152-1155.	1.3	94
72	Manipulation of conjugation to stabilize N redox-active centers for the design of high-voltage organic battery cathode. <i>Energy Storage Materials</i> , 2019, 16, 236-242.	9.5	91

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73	New Ambipolar Hosts Based on Carbazole and 4,5-Diazafluorene Units for Highly Efficient Blue Phosphorescent OLEDs with Low Efficiency Roll-Off. <i>Chemistry of Materials</i> , 2012, 24, 643-650.	3.2	90
74	Carrier-free nanodrugs for safe and effective cancer treatment. <i>Journal of Controlled Release</i> , 2021, 329, 805-832.	4.8	90
75	Recent progress in thermally activated delayed fluorescence emitters for nondoped organic light-emitting diodes. <i>Chemical Science</i> , 2022, 13, 3625-3651.	3.7	90
76	A Novel Colorimetric and Fluorescent Anion Chemosensor Based on the Flavone Quasi-crown Etherâ€”Metal Complex. <i>Organic Letters</i> , 2004, 6, 1071-1074.	2.4	89
77	High Performance Exciplex-Based Fluorescenceâ€”Phosphorescence White Organic Light-Emitting Device with Highly Simplified Structure. <i>Chemistry of Materials</i> , 2015, 27, 5206-5211.	3.2	89
78	Control of Dual Conformations: Developing Thermally Activated Delayed Fluorescence Emitters for Highly Efficient Single-Emitter White Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31515-31525.	4.0	88
79	Nonconjugated Carbazoles: A Series of Novel Host Materials for Highly Efficient Blue Electrophosphorescent OLEDs. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6761-6767.	1.5	86
80	High-efficiency, air stable graphene/Si micro-hole array Schottky junction solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15348.	5.2	86
81	Waferâ€”Scale Precise Patterning of Organic Singleâ€”Crystal Nanowire Arrays via a Photolithographyâ€”Assisted Spinâ€”Coating Method. <i>Advanced Materials</i> , 2015, 27, 7305-7312.	11.1	84
82	Smart doxorubicin nanoparticles with high drug payload for enhanced chemotherapy against drug resistance and cancer diagnosis. <i>Nanoscale</i> , 2015, 7, 5683-5690.	2.8	84
83	Blue and white organic electroluminescent devices based on 9,10-bis(2â€”naphthyl)anthracene. <i>Chemical Physics Letters</i> , 2003, 369, 478-482.	1.2	83
84	Preparation and Size Control of Sub-100 nm Pure Nanodrugs. <i>Nano Letters</i> , 2015, 15, 313-318.	4.5	82
85	Organic molecular crystal-based photosynaptic devices for an artificial visual-perception system. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	81
86	The design of an extended multiple resonance TADF emitter based on a polycyclic amine/carbonyl system. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2018-2022.	3.2	81
87	Anthracene derivative for a non-doped blue-emitting organic electroluminescence device with both excellent color purity and high efficiency. <i>Chemical Physics Letters</i> , 2004, 397, 1-4.	1.2	78
88	The Nanoassembly of an Intrinsically Cytotoxic Nearâ€”Infrared Dye for Multifunctionally Synergistic Theranostics. <i>Small</i> , 2019, 15, e1903121.	5.2	76
89	A Microchannelâ€”Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration. <i>Advanced Materials</i> , 2020, 32, e1908340.	11.1	75
90	Single vs double atom catalyst for N ₂ activation in nitrogen reduction reaction: A DFT perspective. <i>EcoMat</i> , 2020, 2, e12014.	6.8	75

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91	A Fully Solution-Printed Photosynaptic Transistor Array with Ultralow Energy Consumption for Artificial Vision Neural Networks. <i>Advanced Materials</i> , 2022, 34, e2200380.	11.1	75
92	Ultrabright and ultrastable near-infrared dye nanoparticles for in vitro and in vivo bioimaging. <i>Biomaterials</i> , 2012, 33, 7803-7809.	5.7	74
93	Flexible graphene/silicon heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14370-14377.	5.2	74
94	Seed-mediated synthesis of silver nanostructures and polymer/silver nanocables by UV irradiation. <i>Journal of Crystal Growth</i> , 2004, 273, 285-291.	0.7	72
95	Structural and electronic properties of ZnO nanotubes from density functional calculations. <i>Nanotechnology</i> , 2007, 18, 485713.	1.3	72
96	Mitochondrial-Targeting Lonidamine-Doxorubicin Nanoparticles for Synergistic Chemotherapy to Conquer Drug Resistance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43498-43507.	4.0	72
97	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. <i>ACS Nano</i> , 2019, 13, 5910-5919.	7.3	72
98	Single-Crystal 9,10-Diphenylanthracene Nanoribbons and Nanorods. <i>Chemistry of Materials</i> , 2008, 20, 6945-6950.	3.2	71
99	The Design of Quaternary Nitrogen Redox Center for High-Performance Organic Battery Materials. <i>Matter</i> , 2019, 1, 945-958.	5.0	71
100	One-Step Self-Assembly, Alignment, and Patterning of Organic Semiconductor Nanowires by Controlled Evaporation of Confined Microfluids. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2811-2815.	7.2	70
101	Synthesis, Structure, and Photophysical Properties of Two Four-Coordinate Cu ^I -NHC Complexes with Efficient Delayed Fluorescence. <i>Inorganic Chemistry</i> , 2016, 55, 2157-2164.	1.9	70
102	Isomeric Thermally Activated Delayed Fluorescence Emitters for Color Purity-Improved Emission in Organic Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16791-16798.	4.0	69
103	Size Controllable and Surface Tunable Zeolitic Imidazolate Framework-8-Poly(acrylic acid sodium) Tj ETQq1 1 0.784314 rgBT /Over ACS Applied Materials & Interfaces, 2017, 9, 32990-33000.	4.0	69
104	Novel small-molecule electron donor for solution-processed ternary exciplex with 24% external quantum efficiency in organic light-emitting diode. <i>Materials Horizons</i> , 2019, 6, 1425-1432.	6.4	69
105	Facile One-Step Fabrication of Ordered Organic Nanowire Films. <i>Advanced Materials</i> , 2009, 21, 4172-4175.	11.1	68
106	High-Efficiency Nondoped Deep-Blue-Emitting Organic Electroluminescent Device. <i>Chemistry of Materials</i> , 2010, 22, 2138-2141.	3.2	68
107	High-Performance, Simplified Fluorescence and Phosphorescence Hybrid White Organic Light-Emitting Devices Allowing Complete Triplet Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26135-26142.	4.0	68
108	Organic nanostructures of thermally activated delayed fluorescent emitters with enhanced intersystem crossing as novel metal-free photosensitizers. <i>Chemical Communications</i> , 2016, 52, 11744-11747.	2.2	68

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109	Novel Blue Fluorophor with High Triplet Energy Level for High Performance Single-Emitting-Layer Fluorescence and Phosphorescence Hybrid White Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2013, 25, 4454-4459.	3.2	67
110	Coumarin-Based Thermally Activated Delayed Fluorescence Emitters with High External Quantum Efficiency and Low Efficiency Roll-off in the Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8848-8854.	4.0	67
111	Atomic Layer Deposition of Vanadium Oxide as Hole-Selective Contact for Crystalline Silicon Solar Cells. <i>Advanced Electronic Materials</i> , 2020, 6, 2000467.	2.6	67
112	Template-Free Electrochemical Synthesis of Single-Crystal CuTe Nanoribbons. <i>Crystal Growth and Design</i> , 2008, 8, 1789-1791.	1.4	65
113	Large-scale assembly of highly sensitive Si-based flexible strain sensors for human motion monitoring. <i>Nanoscale</i> , 2016, 8, 2123-2128.	2.8	65
114	Approaching Efficient and Narrow RGB Electroluminescence from D-A-Type TADF Emitters Containing an Identical Multiple Resonance Backbone as the Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36089-36097.	4.0	64
115	Dart-Shaped Tricrystal ZnS Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2568-2571.	7.2	62
116	Carrier-free, functionalized drug nanoparticles for targeted drug delivery. <i>Chemical Communications</i> , 2012, 48, 8120.	2.2	62
117	Organic-inorganic hybrid perovskite quantum dots for light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4831-4841.	2.7	62
118	EQE Climbing Over 6% at High Brightness of 14350 cd/m ² in Deep-Blue OLEDs Based on Hybridized Local and Charge-Transfer Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9629-9637.	4.0	61
119	Enhancement of Photocatalytic Water Oxidation Activity on IrO ₂ -ZnO/Zn ₂ GeO ₄ N ₂ O ₆ Catalyst with the Solid Solution Phase Junction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12818-12822.		
120	High-Performance Nondoped Blue Delayed Fluorescence Organic Light-Emitting Diodes Featuring Low Driving Voltage and High Brightness. <i>Advanced Science</i> , 2020, 7, 1902508.	5.6	60
121	Efficient Orange-Red Thermally Activated Delayed Fluorescence Emitters Feasible for Both Thermal Evaporation and Solution Process. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29086-29093.	4.0	57
122	Patterning Liquid Crystalline Organic Semiconductors via Inkjet Printing for High-Performance Transistor Arrays and Circuits. <i>Advanced Functional Materials</i> , 2021, 31, 2100237.	7.8	57
123	Self-Assembly of Electron Donor-Acceptor-Based Carbazole Derivatives: Novel Fluorescent Organic Nanoprobes for Both One- and Two-Photon Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11355-11365.	4.0	56
124	Precise Patterning of Laterally Stacked Organic Microbelt Heterojunction Arrays by Surface-Energy-Controlled Stepwise Crystallization for Ambipolar Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, e1800187.	11.1	56
125	Photoluminescence and electroluminescence of pyrazoline monomers and dimers. <i>Chemical Physics Letters</i> , 2000, 320, 77-80.	1.2	55
126	Near-infrared fluorescence imaging using organic dye nanoparticles. <i>Biomaterials</i> , 2014, 35, 3356-3364.	5.7	55

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127	Clean surface transfer of graphene films via an effective sandwich method for organic light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 201-207.	2.7	55
128	Unraveling the Mechanism of the Persistent Photoconductivity in Organic Phototransistors. <i>Advanced Functional Materials</i> , 2019, 29, 1905657.	7.8	54
129	A Facile Method for the Growth of Organic Semiconductor Single Crystal Arrays on Polymer Dielectric toward Flexible Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1902494.	7.8	54
130	Manipulating exciton dynamics of thermally activated delayed fluorescence materials for tuning two-photon nanotheranostics. <i>Chemical Science</i> , 2020, 11, 888-895.	3.7	54
131	Iodine-Doped Poly(3,4-Ethylenedioxythiophene)-Modified Si Nanowire 1D Core-Shell Arrays as an Efficient Photocatalyst for Solar Hydrogen Generation. <i>Advanced Materials</i> , 2012, 24, 6199-6203.	11.1	53
132	High Performance All Fluorescence White Organic Light Emitting Devices with a Highly Simplified Structure Based on Thermally Activated Delayed Fluorescence Dopants and Host. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32984-32991.	4.0	53
133	Novel bipolar host materials based on 1,3,5-triazine derivatives for highly efficient phosphorescent OLEDs with extremely low efficiency roll-off. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14255.	1.3	52
134	Surface charge transfer doping induced inversion layer for high-performance graphene/silicon heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 285-291.	5.2	52
135	Facile Assembly of High-Quality Organic-Inorganic Hybrid Perovskite Quantum Dot Thin Films for Bright Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018, 28, 1705189.	7.8	52
136	Light-trapping enhanced ZnO-MoS ₂ core-shell nanopillar arrays for broadband ultraviolet-visible-near infrared photodetection. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7077-7084.	2.7	52
137	Water-Surface Drag Coating: A New Route Toward High-Quality Conjugated Small-Molecule Thin Films with Enhanced Charge Transport Properties. <i>Advanced Materials</i> , 2021, 33, e2005915.	11.1	52
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