Xiao-Hong Zhang

List of Publications by Year
in descending order

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497 papers	24,683 citations	5896 81 h-index	14208 128 g-index
506 all docs	506 docs citations	506 times ranked	24272 citing authors

#	Article	IF	Citations
1	Thermally activated delayed fluorescence materials for nondoped organic lightâ€emitting diodes with nearly 100% exciton harvest. SmartMat, 2023, 4, .	10.7	7
2	Conformational isomerization: A novel mechanism to realize the AIEâ€TADF behaviors. Aggregate, 2023, 4, .	9.9	14
3	Novel donor-spacer-acceptor compound as the multifunctional component of exciplexes for efficient organic light-emitting diodes. Science China Materials, 2022, 65, 460-468.	6.3	5
4	New electron-donating segment to develop thermally activated delayed fluorescence emitters for efficient solution-processed non-doped organic light-emitting diodes. Chinese Chemical Letters, 2022, 33, 1110-1115.	9.0	2
5	Ambient instability of organic field-effect transistors and their improvement strategies. Journal Physics D: Applied Physics, 2022, 55, 053001.	2.8	8
6	Applying intermolecular hydrogen bonding to exploit TADF emitters for high-performance orange-red non-doped OLEDs. Journal of Materials Chemistry C, 2022, 10, 4717-4722.	5.5	7
7	Phonon resonant effect in silicon membranes with different crystallographic orientations. International Journal of Heat and Mass Transfer, 2022, 183, 122144.	4.8	11
8	Managing Intersegmental Chargeâ€Transfer and Multiple Resonance Alignments of D₃â€A Typed TADF Emitters for Red OLEDs with Improved Efficiency and Color Purity. Advanced Optical Materials, 2022, 10, 2101789.	7.3	41
9	Conformal MoS₂/Silicon Nanowire Array Heterojunction with Enhanced Light Trapping and Effective Interface Passivation for Ultraweak Infrared Light Detection. Advanced Functional Materials, 2022, 32, 2108174.	14.9	32
10	Improving Efficiency of Red Thermally Activated Delayed Fluorescence Emitter by Introducing <scp>Quasiâ€Degenerate</scp> Orbital Distribution. Chinese Journal of Chemistry, 2022, 40, 911-917.	4.9	20
11	Efficient and stable single-emitting-layer white organic light-emitting diodes by employing all thermally activated delayed fluorescence emitters. Organic Electronics, 2022, 101, 106415.	2.6	3
12	Layered double hydroxides-silver-chlorin e6 nanocomposite for photo-chemo combination therapy to efficiently combat both Gram-positive and Gram-negative bacteria. Materials Today Communications, 2022, 30, 103101.	1.9	0
13	Thermally activated delayed fluorescence exciplexes in organic light-emitting diodes. , 2022, , 353-426.		2
14	Scalable Growth of Organic Singleâ€Crystal Films via an Orientation Filter Funnel for Highâ€Performance Transistors with Excellent Uniformity. Advanced Materials, 2022, 34, e2109818.	21.0	29
15	Blocking Energy-Loss Pathways for Efficient All-Fluorescent Solution-processed Organic Light-emitting Diodes by Introducing Polymer Additive. Journal of Physics: Conference Series, 2022, 2174, 012030.	0.4	1
16	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching. ACS Omega, 2022, 7, 2234-2243.	3.5	7
17	A facile strategy for enhancing reverse intersystem crossing of red thermally activated delayed fluorescence emitters. Chemical Engineering Journal, 2022, 433, 134423.	12.7	13
18	Using fullerene fragments as acceptors to construct thermally activated delayed fluorescence emitters for high-efficiency organic light-emitting diodes. Chemical Engineering Journal, 2022, 435, 134731.	12.7	7

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19	Recent progress in thermally activated delayed fluorescence emitters for nondoped organic light-emitting diodes. Chemical Science, 2022, 13, 3625-3651.	7.4	90
20	A perspective on ultralong silicon nanowires for flexible sensors. Applied Physics Letters, 2022, 120, 130501.	3.3	2
21	Effective Design Strategy of Small Bipolar Molecules through Fused Conjugation toward 2.5 V Based Redox Flow Batteries. ACS Energy Letters, 2022, 7, 1274-1283.	17.4	18
22	A Fully Solutionâ€Printed Photosynaptic Transistor Array with Ultralow Energy Consumption for Artificialâ€Vision Neural Networks. Advanced Materials, 2022, 34, e2200380.	21.0	75
23	A Threeâ€Dimensional Confined Crystallization Strategy Toward Controllable Growth of Highâ€Quality and Largeâ€Area Perovskite Single Crystals. Advanced Functional Materials, 2022, 32, .	14.9	17
24	Thermally Activated Delayed Fluorescent Dendrimers that Underpin Highâ€Efficiency Hostâ€Free Solutionâ€Processed Organic Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2110344.	21.0	30
25	Controlling the conjugation extension inside acceptors for enhancing reverse intersystem crossing of red thermally activated delayed fluorescence emitters. Chemical Engineering Journal, 2022, 440, 135775.	12.7	9
26	High-Luminance Microsized CH₃NH₃PbBr₃ Single-Crystal-Based Light-Emitting Diodes via a Facile Liquid-Insulator Bridging Route. ACS Nano, 2022, 16, 6394-6403.	14.6	13
27	Optimizing Intermolecular Interactions and Energy Level Alignments of Red TADF Emitters for Highâ€Performance Organic Lightâ€Emitting Diodes. Small, 2022, 18, e2201548.	10.0	20
28	Progress and Future Prospects of Wideâ€Bandgap Metalâ€Compoundâ€Based Passivating Contacts for Silicon Solar Cells. Advanced Materials, 2022, 34, e2200344.	21.0	30
29	Shear-induced alignment of low-aspect-ratio nanorods for modulations of multiple optical properties. Journal of Materials Chemistry C, 2022, 10, 9478-9483.	5.5	1
30	Distinguishing the respective determining factors for spectral broadening and concentration quenching in multiple resonance type TADF emitter systems. Materials Horizons, 2022, 9, 2226-2232.	12.2	30
31	Ultraâ€Sensitive and Lowâ€Powerâ€Consumption Organic Phototransistor Enables Nighttime Illumination Perception for Bionic Mesopic Vision. Laser and Photonics Reviews, 2022, 16, .	8.7	10
32	Multiplying the efficiency of red thermally activated delayed fluorescence emitter by introducing intramolecular hydrogen bond. Chemical Engineering Journal, 2022, 448, 137717.	12.7	12
33	A novel orange-red thermally activated delayed fluorescence emitter with high molecular rigidity and planarity realizing 32.5% external quantum efficiency in organic light-emitting diodes. Materials Horizons, 2022, 9, 2425-2432.	12.2	21
34	Insights into the Origins of Minority Carrier Traps in Solutionâ€Processed Organic Semiconductors and Their Effects on Transistor Photostability. Advanced Electronic Materials, 2022, 8, .	5.1	5
35	Patterning of organic semiconductor crystal arrays via microchannel-assisted inkjet printing for organic field-effect transistors. JPhys Materials, 2022, 5, 035001.	4.2	3
36	Pyridine-substituted triazine as an acceptor for thermally activated delayed fluorescence emitters showing high efficiency and low roll-off in organic light-emitting diodes. Materials Today Energy, 2021, 20, 100581.	4.7	6

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37	Managing Locally Excited and Chargeâ€Transfer Triplet States to Facilitate Upâ€Conversion in Red TADF Emitters That Are Available for Both Vacuumâ€•and Solutionâ€Processes. Angewandte Chemie - International Edition, 2021, 60, 2478-2484.	13.8	116
38	Carrier-free nanodrugs for safe and effective cancer treatment. Journal of Controlled Release, 2021, 329, 805-832.	9.9	90
39	Using fluorene to lock electronically active moieties in thermally activated delayed fluorescence emitters for high-performance non-doped organic light-emitting diodes with suppressed roll-off. Chemical Science, 2021, 12, 1495-1502.	7.4	48
40	Novel triazine derivatives with deep LUMO energy levels as the electron-accepting components of exciplexes. Journal of Materials Chemistry C, 2021, 9, 939-946.	5.5	8
41	Waterâ€Surface Drag Coating: A New Route Toward Highâ€Quality Conjugated Smallâ€Molecule Thin Films with Enhanced Charge Transport Properties. Advanced Materials, 2021, 33, e2005915.	21.0	52
42	Managing Locally Excited and Chargeâ€Transfer Triplet States to Facilitate Upâ€Conversion in Red TADF Emitters That Are Available for Both Vacuumâ€•and Solutionâ€Processes. Angewandte Chemie, 2021, 133, 2508-2514.	2.0	24
43	Allâ€Earthâ€Abundant Photothermal Silicon Platform for CO₂ Catalysis with Nearly 100% Sunlight Harvesting Ability. Solar Rrl, 2021, 5, 2000387.	5.8	21
44	Solution-Processable Carbon and Graphene Quantum Dots Photodetectors. Lecture Notes in Nanoscale Science and Technology, 2021, , 157-214.	0.8	1
45	Hydrogenâ€Bondâ€Assisted Exciplex Emitters Realizing Improved Efficiencies and Stabilities in Organic Light Emitting Diodes. Advanced Functional Materials, 2021, 31, 2010100.	14.9	23
46	Precise patterning of single crystal arrays of organic semiconductors by a patterned microchannel dip-coating method for organic field-effect transistors. Journal of Materials Chemistry C, 2021, 9, 5174-5181.	5.5	10
47	Improving Ideality of Pâ€Type Organic Fieldâ€Effect Transistors via Preventing Undesired Minority Carrier Injection. Advanced Functional Materials, 2021, 31, 2100202.	14.9	21
48	Synergistic impeding of phonon transport through resonances and screw dislocations. Physical Review B, 2021, 103, .	3.2	16
49	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO₂ Photocatalysis. ACS Nano, 2021, 15, 5696-5705.	14.6	164
50	Solution-Doped Polysilicon Passivating Contacts for Silicon Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 8455-8460.	8.0	14
51	Patterning Liquid Crystalline Organic Semiconductors via Inkjet Printing for Highâ€Performance Transistor Arrays and Circuits. Advanced Functional Materials, 2021, 31, 2100237.	14.9	57
52	A core-shell catalyst design boosts the performance of photothermal reverse water gas shift catalysis. Science China Materials, 2021, 64, 2212-2220.	6.3	21
53	Thermally Activated Delayed Fluorescence Warm White Organic Light Emitting Devices with External Quantum Efficiencies Over 30%. Advanced Functional Materials, 2021, 31, 2101647.	14.9	34
54	Compact Biomimetic Hair Sensors Based on Single Silicon Nanowires for Ultrafast and Highly-Sensitive Airflow Detection. Nano Letters, 2021, 21, 4684-4691.	9.1	27

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55	Highâ€Performance Nondoped Organic Lightâ€Emitting Diode Based on a Thermally Activated Delayed Fluorescence Emitter with 1D Intermolecular Hydrogen Bonding Interactions. Advanced Optical Materials, 2021, 9, 2100461.	7.3	16
56	Nonconjugated Triptycene-Spaced Donorâ€“Acceptor-Type Emitters Showing Thermally Activated Delayed Fluorescence via Both Intra- and Intermolecular Charge-Transfer Transitions. ACS Applied Materials & Interfaces, 2021, 13, 25193-25201.	8.0	13
57	Singleâ€Crystalline Silicon Frameworks: A New Platform for Transparent Flexible Optoelectronics. Advanced Materials, 2021, 33, e2008171.	21.0	13
58	Greenhouse-inspired supra-photothermal CO2 catalysis. Nature Energy, 2021, 6, 807-814.	39.5	198
59	A phototransistor with visual adaptation. Nature Electronics, 2021, 4, 460-461.	26.0	4
60	Approaching Efficient and Narrow RGB Electroluminescence from Dâ€“A-Type TADF Emitters Containing an Identical Multiple Resonance Backbone as the Acceptor. ACS Applied Materials & Interfaces, 2021, 13, 36089-36097.	8.0	64
61	Anthraquinone-based anode material for aqueous redox flow batteries operating in nondemanding atmosphere. Journal of Power Sources, 2021, 501, 229984.	7.8	34
62	Metal-catalyzed chemical etching using DIO3 as a hole injection agent for efficient submicron-textured multicrystalline silicon solar cells. Solar Energy Materials and Solar Cells, 2021, 227, 111104.	6.2	5
63	Construction of Single-Atom Platinum Catalysts Enabled by CsPbBr₃ Nanocrystals. ACS Nano, 2021, 15, 13129-13139.	14.6	44
64	Conjugated Polymers: Optical Toolbox for Bioimaging and Cancer Therapy. Small, 2021, 17, e2103127.	10.0	31
65	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a â€œSelfâ€Dopingâ€•Organic Lightâ€Emitting Diode. Angewandte Chemie, 2021, 133, 26082-26087.	2.0	8
66	High-performance red and white organic light-emitting diodes based on a novel red thermally activated delayed fluorescence emitter in an exciplex matrix. Materials Today Energy, 2021, 21, 100818.	4.7	2
67	Waferâ€Scale Growth of Aligned C₆₀ Single Crystals via Solutionâ€Phase Epitaxy for Highâ€Performance Transistors. Advanced Functional Materials, 2021, 31, 2105459.	14.9	9
68	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a â€œSelfâ€Dopingâ€•Organic Lightâ€Emitting Diode. Angewandte Chemie - International Edition, 2021, 60, 25878-25883.	13.8	35
69	Selectively electroless deposited Ag nanoparticles embedded in the dielectric layer to tune the rear color of bifacial solar cells. Solar Energy Materials and Solar Cells, 2021, 232, 111358.	6.2	2
70	Self-crosslinked herringbone dihydrophenazine derivatives for high performance organic batteries. Composites Communications, 2021, 28, 100947.	6.3	12
71	Combining histone deacetylase inhibitors (HDACis) with other therapies for cancer therapy. European Journal of Medicinal Chemistry, 2021, 226, 113825.	5.5	34
72	Novel D-Dâ€²-A structure thermally activated delayed fluorescence emitters realizing over 20% external quantum efficiencies in both evaporation- and solution-processed organic light-emitting diodes. Organic Electronics, 2021, 99, 106312.	2.6	1

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73	Multicore Ferrocene Derivative as a Highly Soluble Cathode Material for Nonaqueous Redox Flow Batteries. ACS Applied Energy Materials, 2021, 4, 855-861.	5.1	11
74	Facile synthesis of near-infrared bodipy by donor engineering for in vivo tumor targeted dual-modal imaging. Journal of Materials Chemistry B, 2021, 9, 9308-9315.	5.8	8
75	Ru-Catalyzed Reverse Water Gas Shift Reaction with Near-Unity Selectivity and Superior Stability. , 2021, 3, 1652-1659.		24
76	Highly efficient ternary polymer-based solution-processable exciplex with over 20% external quantum efficiency in organic light-emitting diode. Organic Electronics, 2020, 76, 105449.	2.6	22
77	Thermal transport in amorphous small organic materials: a mechanistic study. Physical Chemistry Chemical Physics, 2020, 22, 3058-3065.	2.8	16
78	Manipulating exciton dynamics of thermally activated delayed fluorescence materials for tuning two-photon nanotheranostics. Chemical Science, 2020, 11, 888-895.	7.4	54
79	Roles of interfaces in the ideality of organic field-effect transistors. Nanoscale Horizons, 2020, 5, 454-472.	8.0	25
80	Theoretical Studies of Bipolar Transport in CnBTBTâ€“FmTCNQ Donorâ€“Acceptor Cocrystals. Journal of Physical Chemistry Letters, 2020, 11, 359-365.	4.6	15
81	Surficial Marangoni Flowâ€Induced Growth of Ultrathin 2D Molecular Crystals on Target Substrates. Advanced Materials Interfaces, 2020, 7, 1901753.	3.7	10
82	Highâ€Performance Nondoped Blue Delayed Fluorescence Organic Lightâ€Emitting Diodes Featuring Low Driving Voltage and High Brightness. Advanced Science, 2020, 7, 1902508.	11.2	60
83	Intramolecular H-bond design for efficient orangeâ€“red thermally activated delayed fluorescence based on a rigid dibenzo[f,h]pyrido[2,3-b]quinoxaline acceptor. Journal of Materials Chemistry C, 2020, 8, 15728-15734.	5.5	27
84	6,12-Dihydro-6,12-diboradibenzo[def,mno]chrysene: A Doubly Boron-Doped Polycyclic Aromatic Hydrocarbon for Organic Light Emitting Diodes by a One-Pot Synthesis. Organic Letters, 2020, 22, 7942-7946.	4.6	15
85	Singleâ€Photomolecular Nanotheranostics for Synergetic Nearâ€Infrared Fluorescence and Photoacoustic Imagingâ€Guided Highly Effective Photothermal Ablation. Small, 2020, 16, e2002672.	10.0	23
86	Atomic Layer Deposition of Vanadium Oxide as Holeâ€Selective Contact for Crystalline Silicon Solar Cells. Advanced Electronic Materials, 2020, 6, 2000467.	5.1	67
87	Ï€-Extended Dihydrophenazine-Based Polymeric Cathode Material for High-Performance Organic Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 17868-17875.	6.7	28
88	Charge-transfer transition regulation of thermally activated delayed fluorescence emitters by changing the valence of sulfur atoms. Journal of Materials Chemistry C, 2020, 8, 17457-17463.	5.5	11
89	An â€˜ice-meltingâ€™ kinetic control strategy for highly photocatalytic organic nanocrystals. Journal of Materials Chemistry A, 2020, 8, 25275-25282.	10.3	7
90	Atomic-Scale Interface Engineering for Constructing p-CuPc/n-CdS Coreâ€“Shell Heterojunctions toward Light-Harvesting Application. ACS Applied Energy Materials, 2020, 3, 8765-8773.	5.1	2

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91	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. Materials Horizons, 2020, 7, 2734-2740.	12.2	51
92	Grapheneâ€Quantumâ€Dotsâ€Induced Centimeterâ€Sized Growth of Monolayer Organic Crystals for Highâ€Performance Transistors. Advanced Materials, 2020, 32, e2003315.	21.0	27
93	Origin of thermally activated delayed fluorescence in a donorâ€“acceptor type emitter with an optimized nearly planar geometry. Journal of Materials Chemistry C, 2020, 8, 13263-13269.	5.5	16
94	All-in-One, Solid-State, Solar-Powered Electrochemical Cell. ACS Applied Materials & Interfaces, 2020, 12, 57182-57189.	8.0	6
95	Fast deposition of an ultrathin, highly crystalline organic semiconductor film for high-performance transistors. Nanoscale Horizons, 2020, 5, 1096-1105.	8.0	20
96	Cobalt Plasmonic Superstructures Enable Almost 100% Broadband Photon Efficient CO₂ Photocatalysis. Advanced Materials, 2020, 32, e2000014.	21.0	109
97	The design of an extended multiple resonance TADF emitter based on a polycyclic amine/carbonyl system. Materials Chemistry Frontiers, 2020, 4, 2018-2022.	5.9	81
98	Molecular deposition condition dependent structural and charge transport properties of CBP films. Computational Materials Science, 2020, 182, 109785.	3.0	4
99	Theoretical studies on full-color thermally activated delayed fluorescence molecules. Journal of Materials Chemistry C, 2020, 8, 5839-5846.	5.5	13
100	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. Nano Letters, 2020, 20, 2478-2485.	9.1	51
101	Chiral thermally activated delayed fluorescence emitters with dual conformations based on a pair of enantiomeric donors containing asymmetric carbons. Dyes and Pigments, 2020, 178, 108336.	3.7	10
102	Forming submicron in micron texture on the diamondâ€wireâ€sawn mcâ€Si wafer by introducing artificial defects. Progress in Photovoltaics: Research and Applications, 2020, 28, 788-797.	8.1	12
103	A Microchannelâ€Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration. Advanced Materials, 2020, 32, e1908340.	21.0	75
104	A Highly Conductive Titanium Oxynitride Electronâ€Selective Contact for Efficient Photovoltaic Devices. Advanced Materials, 2020, 32, e2002608.	21.0	46
105	Forcing dimethylacridine crooking to improve the efficiency of orange-red thermally activated delayed fluorescent emitters. Journal of Materials Chemistry C, 2020, 8, 10416-10421.	5.5	4
106	Meniscus-guided coating of organic crystalline thin films for high-performance organic field-effect transistors. Journal of Materials Chemistry C, 2020, 8, 9133-9146.	5.5	49
107	Controlled 2D growth of organic semiconductor crystals by suppressing â€œcoffee-ringâ€•effect. Nano Research, 2020, 13, 2478-2484.	10.4	11
108	Flame-retarding battery cathode materials based on reversible multi-electron redox chemistry of phenothiazine-based polymer. Journal of Energy Chemistry, 2020, 47, 256-262.	12.9	17

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109	Dilution of the Electron Density in the Ï€â€Conjugated Skeleton of Organic Cathode Materials Improves the Discharge Voltage. ChemSusChem, 2020, 13, 2264-2270.	6.8	34
110	Single vs double atom catalyst for N₂ activation in nitrogen reduction reaction: A DFT perspective. EcoMat, 2020, 2, e12014.	11.9	75
111	Tailoring the Voltage Gap of Organic Battery Materials Based on a Multiâ€Electron Redox Chemistry. ChemElectroChem, 2020, 7, 1781-1788.	3.4	11
112	Manipulation of conjugation to stabilize N redox-active centers for the design of high-voltage organic battery cathode. Energy Storage Materials, 2019, 16, 236-242.	18.0	91
113	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. Materials Today, 2019, 24, 17-25.	14.2	98
114	Releasing the Trapped Light for Efficient Silver Nanowiresâ€Based White Flexible Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2019, 7, 1900985.	7.3	32
115	2D Ruddlesdenâ€“Popper Perovskite Nanoplate Based Deepâ€Blue Lightâ€Emitting Diodes for Light Communication. Advanced Functional Materials, 2019, 29, 1903861.	14.9	101
116	The Nanoassembly of an Intrinsically Cytotoxic Nearâ€Infrared Dye for Multifunctionally Synergistic Theranostics. Small, 2019, 15, e1903121.	10.0	76
117	The Design of Quaternary Nitrogen Redox Center for High-Performance Organic Battery Materials. Matter, 2019, 1, 945-958.	10.0	71
118	Red/Nearâ€Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100â€‰% Internal Quantum Efficiency. Angewandte Chemie, 2019, 131, 14802-14807.	2.0	40
119	Red/Nearâ€Infrared Thermally Activated Delayed Fluorescence OLEDs with Near 100â€‰% Internal Quantum Efficiency. Angewandte Chemie - International Edition, 2019, 58, 14660-14665.	13.8	247
120	Efficient Orange-Red Thermally Activated Delayed Fluorescence Emitters Feasible for Both Thermal Evaporation and Solution Process. ACS Applied Materials & Interfaces, 2019, 11, 29086-29093.	8.0	57
121	Unraveling the Mechanism of the Persistent Photoconductivity in Organic Phototransistors. Advanced Functional Materials, 2019, 29, 1905657.	14.9	54
122	Biodegradable Ï€-Conjugated Oligomer Nanoparticles with High Photothermal Conversion Efficiency for Cancer Theranostics. ACS Nano, 2019, 13, 12901-12911.	14.6	191
123	Air Effect on the Ideality of pâ€Type Organic Fieldâ€Effect Transistors: A Doubleâ€Edged Sword. Advanced Functional Materials, 2019, 29, 1906653.	14.9	25
124	Blue and white solution-processed TADF-OLEDs with over 20% EQE, low driving voltages and moderate efficiency decrease based on interfacial exciplex hosts. Journal of Materials Chemistry C, 2019, 7, 11806-11812.	5.5	51
125	Precise Positioning of Organic Semiconductor Single Crystals with Two-Component Aligned Structure through 3D Wettability-Induced Sequential Assembly. ACS Applied Materials & Interfaces, 2019, 11, 36205-36212.	8.0	17
126	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. Nano Research, 2019, 12, 2723-2728.	10.4	11

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127	External-force-driven solution epitaxy of large-area 2D organic single crystals for high-performance field-effect transistors. Nano Research, 2019, 12, 2796-2801.	10.4	26
128	Development of Red Exciplex for Efficient OLEDs by Employing a Phosphor as a Component. Frontiers in Chemistry, 2019, 7, 16.	3.6	21
129	Isomeric thermally activated delayed fluorescence emitters based on indolo[2,3-b]acridine electron-donor: a compromising optimization for efficient orangeâ€“red organic light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 2898-2904.	5.5	28
130	Understanding Non-Twinning Zigzag Nanowire Formation for New Nanoscale Devices. ACS Applied Nano Materials, 2019, 2, 673-677.	5.0	1
131	Salt-templated growth of monodisperse hollow nanostructures. Journal of Materials Chemistry A, 2019, 7, 1404-1409.	10.3	33
132	All-inorganic cesium lead halide perovskite nanocrystals: synthesis, surface engineering and applications. Journal of Materials Chemistry C, 2019, 7, 757-789.	5.5	193
133	Thermally activated delayed fluorescence emitters with low concentration sensitivity for highly efficient organic light emitting devices. Journal of Materials Chemistry C, 2019, 7, 8923-8928.	5.5	14
134	Tuning Electrical and Raman Scattering Properties of Cadmium Sulfide Nanoribbons via Surface Charge Transfer Doping. Journal of Physical Chemistry C, 2019, 123, 15794-15801.	3.1	7
135	A Facile Method for the Growth of Organic Semiconductor Single Crystal Arrays on Polymer Dielectric toward Flexible Fieldâ€Effect Transistors. Advanced Functional Materials, 2019, 29, 1902494.	14.9	54
136	Green solution-processed thermally activated delayed fluorescence OLEDs with improved performance by using interfacial exciplex host. Organic Electronics, 2019, 73, 36-42.	2.6	13
137	High-Performance Nanofloating Gate Memory Based on Lead Halide Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2019, 11, 24367-24376.	8.0	23
138	L-Type Ligand-Assisted Acid-Free Synthesis of CsPbBr₃ Nanocrystals with Near-Unity Photoluminescence Quantum Yield and High Stability. Nano Letters, 2019, 19, 4151-4157.	9.1	177
139	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. ACS Nano, 2019, 13, 5910-5919.	14.6	72
140	pH and redox dual responsive carrier-free anticancer drug nanoparticles for targeted delivery and synergistic therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 102008.	3.3	24
141	Tricomponent Exciplex Emitter Realizing over 20% External Quantum Efficiency in Organic Lightâ€Emitting Diode with Multiple Reverse Intersystem Crossing Channels. Advanced Science, 2019, 6, 1801938.	11.2	39
142	Novel small-molecule electron donor for solution-processed ternary exciplex with 24% external quantum efficiency in organic light-emitting diode. Materials Horizons, 2019, 6, 1425-1432.	12.2	69
143	Precise Patterning of Organic Semiconductor Crystals for Integrated Device Applications. Small, 2019, 15, e1900332.	10.0	41
144	Singleâ€Stimulusâ€Induced Modulation of Multiple Optical Properties. Advanced Materials, 2019, 31, e1900388.	21.0	39

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145	Thermally Activated Delayed Fluorescence Carbonyl Derivatives for Organic Light-Emitting Diodes with Extremely Narrow Full Width at Half-Maximum. ACS Applied Materials & Interfaces, 2019, 11, 13472-13480.	8.0	165
146	Memory phototransistors based on exponential-association photoelectric conversion law. Nature Communications, 2019, 10, 1294.	12.8	47
147	Photodetectors based on small-molecule organic semiconductor crystals. Chinese Physics B, 2019, 28, 038102.	1.4	16
148	Dibenzofuran/dibenzothiophene as the secondary electron-donors for highly efficient blue thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2019, 7, 4475-4483.	5.5	15
149	Application of Silicon Oxide on High Efficiency Monocrystalline Silicon PERC Solar Cells. Energies, 2019, 12, 1168.	3.1	19
150	Chain rigidity modification to promote the electrochemical performance of polymeric battery electrode materials. Journal of Materials Chemistry A, 2019, 7, 10581-10588.	10.3	33
151	A Dualâ€Ion Organic Symmetric Battery Constructed from Phenazineâ€Based Artificial Bipolar Molecules. Angewandte Chemie, 2019, 131, 10007-10011.	2.0	32
152	A Dualâ€Ion Organic Symmetric Battery Constructed from Phenazineâ€Based Artificial Bipolar Molecules. Angewandte Chemie - International Edition, 2019, 58, 9902-9906.	13.8	123
153	The Impact of Thermal Treatment on Light-Induced Degradation of Multicrystalline Silicon PERC Solar Cell. Energies, 2019, 12, 416.	3.1	14
154	Thermal Transport Engineering in Graphdiyne and Graphdiyne Nanoribbons. ACS Omega, 2019, 4, 4147-4152.	3.5	18
155	Orbital-dependent redox potential regulation of quinone derivatives for electrical energy storage. RSC Advances, 2019, 9, 5164-5173.	3.6	12
156	Enhanced cyclability of organic redox flow batteries enabled by an artificial bipolar molecule in neutral aqueous electrolyte. Journal of Power Sources, 2019, 417, 83-89.	7.8	49
157	Organic molecular crystal-based photosynaptic devices for an artificial visual-perception system. NPG Asia Materials, 2019, 11, .	7.9	81
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