Zhengyang Bin

List of Publications by Year
in descending order

42 papers	1,767 citations	331670 21 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	1445 citing authors

#	Article	IF	Citations
1	Colorâ€Tunable Allâ€Fluorescent White Organic Lightâ€Emitting Diodes with a High External Quantum Efficiency Over 30% and Extended Device Lifetime. Advanced Materials, 2022, 34, e2103102.	21.0	35
2	Endowing imidazole derivatives with thermally activated delayed fluorescence and aggregationâ€induced emission properties for highly efficient nonâ€doped organic lightâ€emitting diodes. Aggregate, 2022, 3, e127.	9.9	24
3	Orangeâ€“red organic light emitting diodes with high efficiency and low efficiency roll-off: boosted by a fused acceptor composed of pyrazine and maleimide. Chemical Engineering Journal, 2022, 428, 131186.	12.7	19
4	Structurally Nontraditional Bipolar Hosts for RGB Phosphorescent OLEDs: Boosted by a â€œButterflyâ€Shapedâ€•Mediumâ€Ring Acceptor. Angewandte Chemie - International Edition, 2022, 61, e202116681.	13.8	21
5	Structurally Nontraditional Bipolar Hosts for RGB Phosphorescent OLEDs: Boosted by a â€œButterflyâ€Shapedâ€•Mediumâ€Ring Acceptor. Angewandte Chemie, 2022, 134, .	2.0	8
6	Structurally Nontraditional Benzo[c]cinnolineâ€Based Electronâ€Transporting Materials with 3D Molecular Interaction Architecture. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
7	Intramolecular Câ^'H Activation as an Easy Toolbox to Synthesize Pyridineâ€Fused Bipolar Hosts for Blue Organic Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
8	Triazolotriazine-based thermally activated delayed fluorescence materials for highly efficient fluorescent organic light-emitting diodes (TSF-OLEDs). Science Bulletin, 2021, 66, 441-448.	9.0	40
9	Dearomatizing [4+1] Spiroannulation of Naphthols: Discovery of Thermally Activated Delayed Fluorescent Materials. Angewandte Chemie - International Edition, 2021, 60, 3493-3497.	13.8	29
10	Molecular engineering enabling reversible transformation between helical and planar conformations by cyclization of alkynes. Chemical Science, 2021, 12, 2419-2426.	7.4	4
11	Dearomatizing [4+1] Spiroannulation of Naphthols: Discovery of Thermally Activated Delayed Fluorescent Materials. Angewandte Chemie, 2021, 133, 3535-3539.	2.0	5
12	A methyl-shield strategy enables efficient blue thermally activated delayed fluorescence hosts for high-performance fluorescent OLEDs. Materials Horizons, 2021, 8, 2025-2031.	12.2	26
13	Mechanically induced single-molecule white-light emission of excited-state intramolecular proton transfer (ESIPT) materials. Materials Horizons, 2021, 8, 1499-1508.	12.2	27
14	Suppressing Competitive Coordination Reaction for Ohmic Cathode Contact Using Amino-Substituted Organic Ligands and Air-Stable Metals. CCS Chemistry, 2021, 3, 367-376.	7.8	6
15	Management of Locally Excited States for Purine-based TADF Emitters: A Method to Reduce Device Efficiency Roll-Off. Organic Letters, 2021, 23, 3839-3843.	4.6	6
16	Palladium-Catalyzed Cascade Dearomative Spirocyclization and Câ^'H Annulation of Aromatic Halides with Alkynes. Organic Letters, 2021, 23, 5203-5207.	4.6	5
17	Multiâ€Resonance Deepâ€Red Emitters with Shallow Potentialâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie - International Edition, 2021, 60, 20498-20503.	13.8	259
18	Iridium(III)â€Catalyzed Diarylation/Annulation of Benzoic Acids: Facile Access to Multiâ€Aryl Spirobifluorenes as Pure Hydrocarbon Hosts for Highâ€Performance OLEDs. Angewandte Chemie, 2021, 133, 19000-19007.	2.0	9

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19	Iridium(III)â€Catalyzed Diarylation/Annulation of Benzoic Acids: Facile Access to Multiâ€Aryl Spirobifluorenes as Pure Hydrocarbon Hosts for Highâ€Performance OLEDs. Angewandte Chemie - International Edition, 2021, 60, 18852-18859.	13.8	32
20	Multiâ€Resonance Deepâ€Red Emitters with Shallow Potentialâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie, 2021, 133, 20661-20666.	2.0	58
21	Molecular design of thermally activated delayed fluorescent emitters for narrowband orangeâ€“red OLEDs boosted by a cyano-functionalization strategy. Chemical Science, 2021, 12, 9408-9412.	7.4	161
22	Approaching Ohmic hole contact via a synergetic effect of a thin insulating layer and strong electron acceptors. Science China Materials, 2021, 64, 3124-3130.	6.3	6
23	Insight into Regioselective Control in Aerobic Oxidative Câ€“H/Câ€“H Coupling for C3-Arylation of Benzothiophenes: Toward Structurally Nontraditional OLED Materials. Journal of the American Chemical Society, 2021, 143, 21066-21076.	13.7	28
24	Hydrogen bond modulation in 1,10-phenanthroline derivatives for versatile electron transport materials with high thermal stability, large electron mobility and excellent n-doping ability. Science Bulletin, 2020, 65, 153-160.	9.0	23
25	Molecular Design of Nonâ€doped OLEDs Based on a Twisted Heptagonal Acceptor: A Delicate Balance between Rigidity and Rotatability. Angewandte Chemie, 2020, 132, 10078-10082.	2.0	18
26	Molecular Design of Nonâ€doped OLEDs Based on a Twisted Heptagonal Acceptor: A Delicate Balance between Rigidity and Rotatability. Angewandte Chemie - International Edition, 2020, 59, 9992-9996.	13.8	82
27	Facile access to isocoumarin-based D-A-D triad: A thermally activated delayed-fluorescence host for efficient red phosphorescent OLEDs. Organic Electronics, 2020, 84, 105792.	2.6	7
28	Double ortho-Câ€“H Activation/Annulation of Benzamides with Aryl Alkynes: A Route to Double-Helical Polycyclic Heteroaromatics. Journal of Organic Chemistry, 2019, 84, 15697-15705.	3.2	18
29	Synthesis of a Double-Helical Naphthotetraindole Core via an Intramolecular Dehydrogenative Homocoupling Reaction. Organic Letters, 2019, 21, 797-801.	4.6	14
30	Rh/Ag-Mediated Peri-Selective Heteroarylation/Single Electron Transfer Annulation Cascade of 1-(Methylthio)naphthalenes and Analogues: Road Less Traveled to Benzo[de]thioacenes. ACS Catalysis, 2019, 9, 6188-6193.	11.2	32
31	Making silver a stronger n-dopant than cesium via in situ coordination reaction for organic electronics. Nature Communications, 2019, 10, 866.	12.8	42
32	Highâ€Performance Fluorescent Organic Lightâ€Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electronâ€Transporting Material. Advanced Materials, 2018, 30, e1707590.	21.0	68
33	Efficient nâ€Dopants and Their Roles in Organic Electronics. Advanced Optical Materials, 2018, 6, 1800536.	7.3	41
34	Organic Radicals Outperform LiF as Efficient Electron-Injection Materials for Organic Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2017, 8, 4769-4773.	4.6	15
35	Efficient n-type dopants with extremely low doping ratios for high performance inverted perovskite solar cells. Energy and Environmental Science, 2016, 9, 3424-3428.	30.8	94
36	Using an organic radical precursor as an electron injection material for efficient and stable organic light-emitting diodes. Nanotechnology, 2016, 27, 174001.	2.6	18

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37	Simultaneous Enhancement of Efficiency and Stability of Phosphorescent OLEDs Based on Efficient FÃ¶rster Energy Transfer from Interface Exciplex. ACS Applied Materials & Interfaces, 2016, 8, 3825-3832.	8.0	112
38	Highly efficient blue thermally activated delayed fluorescent OLEDs with record-low driving voltages utilizing high triplet energy hosts with small singletâ€“triplet splittings. Chemical Science, 2016, 7, 3355-3363.	7.4	195
39	Air Stable Organic Salt As an n-Type Dopant for Efficient and Stable Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 6444-6450.	8.0	46
40	Towards High Efficiency and Low Rollâ€Off Orange Electrophosphorescent Devices by Fine Tuning Singlet and Triplet Energies of Bipolar Hosts Based on Indolocarbazole/1, 3, 5â€Triazine Hybrids. Advanced Functional Materials, 2014, 24, 3551-3561.	14.9	117
41	Structurally Nontraditional Benzo[c]cinnolineâ€Based Electronâ€Transporting Materials with 3D Molecular Interaction Architecture. Angewandte Chemie, 0, , .	2.0	0
42	Intramolecular Câ^'H Activation as an Easy Toolbox to Synthesize Pyridineâ€Fused Bipolar Hosts for Blue Organic Lightâ€Emitting Diodes. Angewandte Chemie, 0, , .	2.0	0