# Zhengyang Bin

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Multiâ€Resonance Deepâ€Red Emitters with Shallow Excited Statesâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie - International Edition, 2021, 60, 20498-20503. | 13.8 | 259 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Multiâ€Resonance Deepâ€Red Emitters with Shallow Excited Statesâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie, 2021, 133, 20661-20666. | 2.0 | 58 |
| 10 | 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 |
| 11 | Making silver a stronger n-dopant than cesium via in situ coordination reaction for organic electronics. Nature Communications, 2019, 10, 866. | 12.8 | 42 |
| 12 | Efficient nâ€Dopants and Their Roles in Organic Electronics. Advanced Optical Materials, 2018, 6, 1800536. | 7.3 | 41 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Dearomatizing [4+1] Spiroannulation of Naphthols: Discovery of Thermally Activated Delayed Fluorescent Materials. Angewandte Chemie - International Edition, 2021, 60, 3493-3497. | 13.8 | 29 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Mechanically induced single-molecule white-light emission of excited-state intramolecular proton transfer (ESIPT) materials. Materials Horizons, 2021, 8, 1499-1508. | 12.2 | 27 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Synthesis of a Double-Helical Naphthotetraindole Core via an Intramolecular Dehydrogenative Homocoupling Reaction. Organic Letters, 2019, 21, 797-801. | 4.6 | 14 |
| 30 | Intramolecular Cå^'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 |
| 31 | 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 |
| 32 | Structurally Nontraditional Bipolar Hosts for RGB Phosphorescent OLEDs: Boosted by a â€œButterflyâ€Shapedâ€•Mediumâ€Ring Acceptor. Angewandte Chemie, 2022, 134, . | 2.0 | 8 |
| 33 | 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 |
| 34 | Structurally Nontraditional Benzo[c]cinnolineâ€Based Electronâ€Transporting Materials with 3D Molecular Interaction Architecture. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 7 |
| 35 | 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 |
| 36 | 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 |

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| 37 | 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 |
| 38 | Dearomatizing [4+1] Spiroannulation of Naphthols: Discovery of Thermally Activated Delayed Fluorescent Materials. Angewandte Chemie, 2021, 133, 3535-3539. | 2.0 | 5 |
| 39 | Palladium-Catalyzed Cascade Dearomative Spirocyclization and Câˆ’H Annulation of Aromatic Halides with Alkynes. Organic Letters, 2021, 23, 5203-5207. | 4.6 | 5 |
| 40 | Molecular engineering enabling reversible transformation between helical and planar conformations by cyclization of alkynes. Chemical Science, 2021, 12, 2419-2426. | 7.4 | 4 |
| 41 | Structurally Nontraditional Benzo[ c ]cinnolineâ€Based Electronâ€Transporting Materials with 3D Molecular Interaction Architecture. Angewandte Chemie, 0, , . | 2.0 | 0 |
| 42 | Intramolecular Câˆ’H Activation as an Easy Toolbox to Synthesize Pyridineâ€Fused Bipolar Hosts for Blue Organic Lightâ€Emitting Diodes. Angewandte Chemie, 0, , . | 2.0 | 0 |