

Zhongbin Wu

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.

48 papers	1,929 citations	24 h-index	43 g-index
50 ext. papers	2,362 ext. citations	9.7 avg, IF	5.08 L-index

#	Paper	IF	Citations
48	Efficient and low-voltage vertical organic permeable base light-emitting transistors. <i>Nature Materials</i> , 2021 , 20, 1007-1014	27	15
47	Stabilizing black-phase formamidinium perovskite formation at room temperature and high humidity. <i>Science</i> , 2021 , 371, 1359-1364	33.3	202
46	Simplified and high-efficiency warm/cold phosphorescent white organic light-emitting diodes based on interfacial exciplex co-host. <i>Organic Electronics</i> , 2021 , 92, 106123	3.5	1
45	Highly efficient and low efficiency roll-off organic light-emitting diodes with double-exciplex forming co-hosts. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 6062-6067	7.1	5
44	Flexible Perovskite Solar Cells with High Power-Per-Weight: Progress, Application, and Perspectives. <i>ACS Energy Letters</i> , 2021 , 6, 2917-2943	20.1	34
43	Integrated complementary inverters and ring oscillators based on vertical-channel dual-base organic thin-film transistors. <i>Nature Electronics</i> , 2021 , 4, 588-594	28.4	7
42	Architecture of p-i-n Sn-Based Perovskite Solar Cells: Characteristics, Advances, and Perspectives. <i>ACS Energy Letters</i> , 2021 , 6, 2863-2875	20.1	25
41	Utilizing Electroplex Emission to Achieve External Quantum Efficiency up to 18.1% in Nondoped Blue OLED. <i>Research</i> , 2020 , 2020, 8649102	7.8	9
40	Pushing the conductance and transparency limit of monolayer graphene electrodes for flexible organic light-emitting diodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25991-25998	11.5	10
39	Synthesis and Characterization of AIE-Active B ₁₀ -Coordinated Phenalene Complexes. <i>Organic Materials</i> , 2020 , 02, 240-247	1.9	2
38	Pyrido[2,3-b]pyrazine-based full-color fluorescent materials for high-performance OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12445-12449	7.1	7
37	High-Performance Static Induction Transistors Based on Small-Molecule Organic Semiconductors. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000361	6.8	4
36	Vertical organic permeable dual-base transistors for logic circuits. <i>Nature Communications</i> , 2020 , 11, 4725	17.4	7
35	Locking excitons in two-dimensional emitting layers for efficient monochrome and white organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8929-8937	7.1	2
34	Strategic-tuning of radiative excitons for efficient and stable fluorescent white organic light-emitting diodes. <i>Nature Communications</i> , 2019 , 10, 2380	17.4	60
33	Enhancing Spin-Orbit Coupling by Introducing a Lone Pair Electron with p Orbital Character in a Thermally Activated Delayed Fluorescence Emitter: Photophysics and Devices. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2669-2675	6.4	22
32	Organic Light-Emitting Diodes Based on Conjugation-Induced Thermally Activated Delayed Fluorescence Polymers: Interplay Between Intra- and Intermolecular Charge Transfer States. <i>Frontiers in Chemistry</i> , 2019 , 7, 688	5	22

31	High Electron Affinity Molecular Dopant CN6-CP for Efficient Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11660-11666	9.5	17
30	Extremely Low Roll-Off and High Efficiency Achieved by Strategic Exciton Management in Organic Light-Emitting Diodes with Simple Ultrathin Emitting Layer Structure. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8148-8154	9.5	20
29	Managing excitons for high performance hybrid white organic light-emitting diodes by using a simple planar heterojunction interlayer. <i>Applied Physics Letters</i> , 2018 , 112, 023301	3.4	10
28	High performance hybrid tandem white organic light-emitting diodes by using a novel intermediate connector. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 767-772	7.1	18
27	An efficient exciton harvest route for high-performance OLEDs based on aggregation-induced delayed fluorescence. <i>Chemical Communications</i> , 2018 , 54, 1379-1382	5.8	66
26	Molecular design to regulate the photophysical properties of multifunctional TADF emitters towards high-performance TADF-based OLEDs with EQEs up to 22.4% and small efficiency roll-offs. <i>Chemical Science</i> , 2018 , 9, 1385-1391	9.4	96
25	Designing dual emitting cores for highly efficient thermally activated delayed fluorescent emitters. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11615-11621	7.1	21
24	Emitters with a pyridine-3,5-dicarbonitrile core and short delayed fluorescence lifetimes of about 1.5 ns: orange-red TADF-based OLEDs with very slow efficiency roll-offs at high luminance. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6543-6548	7.1	46
23	Teaching an old acceptor new tricks: rationally employing 2,1,3-benzothiadiazole as input to design a highly efficient red thermally activated delayed fluorescence emitter. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1363-1368	7.1	92
22	Tuning the emission from local excited-state to charge-transfer state transition in quinoxaline-based butterfly-shaped molecules: Efficient orange OLEDs based on thermally activated delayed fluorescence emitter. <i>Dyes and Pigments</i> , 2017 , 141, 325-332	4.6	25
21	Precise Exciton Allocation for Highly Efficient White Organic Light-Emitting Diodes with Low Efficiency Roll-Off Based on Blue Thermally Activated Delayed Fluorescent Exciplex Emission. <i>Advanced Optical Materials</i> , 2017 , 5, 1700415	8.1	78
20	Versatile Donor-Acceptor-Type Aggregation-Enhanced Emission Active Fluorophores as Both Highly Efficient Nondoped Emitter and Excellent Host. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32946-32956	9.5	30
19	High efficiency phosphorescent white organic light-emitting diodes with low efficiency roll-off achieved by strategic exciton management based on simple ultrathin emitting layer structures. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12833-12838	7.1	19
18	Pure Organic Emitter with Simultaneous Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence: Thermal-Controlled Triplet Recycling Channels. <i>Advanced Optical Materials</i> , 2017 , 5, 1700588	8.1	39
17	Achieving a balance between small singlet-triplet energy splitting and high fluorescence radiative rate in a quinoxaline-based orange-red thermally activated delayed fluorescence emitter. <i>Chemical Communications</i> , 2016 , 52, 11012-5	5.8	88
16	Highly efficient inverted organic light-emitting diodes using composite organic heterojunctions as electrode-independent injectors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8731-8737	7.1	11
15	Management of Singlet and Triplet Excitons: A Universal Approach to High-Efficiency All Fluorescent WOLEDs with Reduced Efficiency Roll-Off Using a Conventional Fluorescent Emitter. <i>Advanced Optical Materials</i> , 2016 , 4, 1067-1074	8.1	72
14	High-Performance Hybrid White Organic Light-Emitting Diodes with Superior Efficiency/Color Rendering Index/Color Stability and Low Efficiency Roll-Off Based on a Blue Thermally Activated Delayed Fluorescent Emitter. <i>Advanced Functional Materials</i> , 2016 , 26, 3306-3313	15.6	146

13	Achieving Extreme Utilization of Excitons by an Efficient Sandwich-Type Emissive Layer Architecture for Reduced Efficiency Roll-Off and Improved Operational Stability in Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3150-9	9.5	29
12	Benzene-cored AIEgens for deep-blue OLEDs: high performance without hole-transporting layers, and unexpected excellent host for orange emission as a side-effect. <i>Chemical Science</i> , 2016 , 7, 4355-4363	9.4	70
11	Improving lifetime of phosphorescent organic light-emitting diodes by using a non-conjugated hybrid host. <i>Organic Electronics</i> , 2016 , 32, 21-26	3.5	15
10	Recent advances in white organic light-emitting diodes. <i>Materials Science and Engineering Reports</i> , 2016 , 107, 1-42	30.9	156
9	Indolo[3,2,1-jk]carbazole based planarized CBP derivatives as host materials for PhOLEDs with low efficiency roll-off. <i>Organic Electronics</i> , 2016 , 34, 237-245	3.5	32
8	Managing Excitons and Charges for High-Performance Fluorescent White Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28780-28788	9.5	49
7	New AIEgens containing dibenzothiophene-S,S-dioxide and tetraphenylethene moieties: similar structures but very different hole/electron transport properties. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5903-5909	7.1	20
6	Phosphine oxide-jointed electron transporters for the reduction of interfacial quenching in highly efficient blue PHOLEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5430-5439	7.1	36
5	Triazine-phosphine oxide electron transporter for ultralow-voltage-driven sky blue PHOLEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4890-4902	7.1	40
4	Controlling singlet-triplet splitting in carbazole-benzodiazole based bipolar phosphorescent host materials. <i>Organic Electronics</i> , 2015 , 17, 216-228	3.5	14
3	Reduced efficiency roll-off in all-phosphorescent white organic light-emitting diodes with an external quantum efficiency of over 20%. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3304-3310	7.1	59
2	Polyphenylbenzene as a Platform for Deep-Blue OLEDs: Aggregation Enhanced Emission and High External Quantum Efficiency of 3.98%. <i>Chemistry of Materials</i> , 2015 , 27, 1847-1854	9.6	80
1	Phase-Pure Engineering for Efficient and Stable Formamidinium-Based Perovskite Solar Cells. <i>Solar Rrl</i> , 2200060	7.1	1