

Dongdong Zhang

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.

68 papers	3,824 citations	32 h-index	61 g-index
80 ext. papers	5,392 ext. citations	11.7 avg, IF	6.14 L-index

#	Paper	IF	Citations
68	Accelerating Radiative Decay in Blue Through-space Charge Transfer Emitters by Minimizing the Face-to-face Donor-acceptor Distances.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	7
67	Highly Efficient and Stable Blue Organic Light-Emitting Diodes based on Thermally Activated Delayed Fluorophor with Donor-Void-Acceptor Motif.. <i>Advanced Science</i> , 2022 , e2106018	13.6	5
66	Tough, stable and self-healing luminescent perovskite-polymer matrix applicable to all harsh aquatic environments.. <i>Nature Communications</i> , 2022 , 13, 1338	17.4	7
65	In situ-formed tetrahedrally coordinated double-helical metal complexes for improved coordination-activated n-doping.. <i>Nature Communications</i> , 2022 , 13, 1215	17.4	2
64	Approaching Ohmic hole contact via a synergetic effect of a thin insulating layer and strong electron acceptors. <i>Science China Materials</i> , 2021 , 64, 3124	7.1	3
63	Sterically Wrapped Multiple Resonance Fluorophors for Suppression of Concentration Quenching and Spectrum Broadening. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	23
62	Indolo[3,2,1-jk]carbazole Embedded Multiple-Resonance Fluorophors for Narrowband Deep-blue Electroluminescence with EQEB4.7 % and CIEy0.085. <i>Angewandte Chemie</i> , 2021 , 133, 12377-12381	3.6	6
61	Indolo[3,2,1-jk]carbazole Embedded Multiple-Resonance Fluorophors for Narrowband Deep-blue Electroluminescence with EQEB4.7 % and CIE 0.085. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12269-12273	16.4	26
60	Multi-Resonance Deep-Red Emitters with Shallow Potential-Energy Surfaces to Surpass Energy-Gap Law*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20498-20503	16.4	58
59	Thermally activated delayed fluorescence material-sensitized helicene enantiomer-based OLEDs: a new strategy for improving the efficiency of circularly polarized electroluminescence. <i>Science China Materials</i> , 2021 , 64, 899-908	7.1	17
58	Highly efficient inverted polymer solar cells by using solution processed MgO/ZnO composite interfacial layers. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 178-187	9.3	8
57	Multi-Resonance Deep-Red Emitters with Shallow Potential-Energy Surfaces to Surpass Energy-Gap Law**. <i>Angewandte Chemie</i> , 2021 , 133, 20661-20666	3.6	12
56	Color-Tunable All-Fluorescent White Organic Light-Emitting Diodes with a High External Quantum Efficiency Over 30% and Extended Device Lifetime. <i>Advanced Materials</i> , 2021 , e2103102	24	15
55	38.2: Invited Paper: A sensitized way towards stable blue OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 484-485	0.5	
54	12.1: Invited Paper: Efficiency enhancement in dual emission OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 176-178	0.5	
53	Approaching Nearly 40% External Quantum Efficiency in Organic Light Emitting Diodes Utilizing a Green Thermally Activated Delayed Fluorescence Emitter with an Extended Linear Donor-Acceptor-Donor Structure. <i>Advanced Materials</i> , 2021 , 33, e2103293	24	33
52	Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Through-space Charge Transfers. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23771-23776	16.4	25

51	Strategically Modulating Carriers and Excitons for Efficient and Stable Ultrapure-Green Fluorescent OLEDs with a Sterically Hindered BODIPY Dopant. <i>Advanced Optical Materials</i> , 2020 , 8, 2000483	8.1	27
50	Efficient and Stable Deep-Blue Fluorescent Organic Light-Emitting Diodes Employing a Sensitizer with Fast Triplet Upconversion. <i>Advanced Materials</i> , 2020 , 32, e1908355	24	100
49	Modulation of ligand conjugation for efficient FAPbBr ₃ based green light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1383-1389	7.8	3
48	Achieving Pure Green Electroluminescence with CIEy of 0.69 and EQE of 28.2% from an Aza-Fused Multi-Resonance Emitter. <i>Angewandte Chemie</i> , 2020 , 132, 17652-17656	3.6	30
47	Achieving Pure Green Electroluminescence with CIEy of 0.69 and EQE of 28.2% from an Aza-Fused Multi-Resonance Emitter. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17499-17503	16.4	81
46	Progress on Light-Emitting Electrochemical Cells toward Blue Emission, High Efficiency, and Long Lifetime. <i>Advanced Functional Materials</i> , 2020 , 30, 1907156	15.6	27
45	High-Efficiency Narrow-Band Electro-Fluorescent Devices with Thermally Activated Delayed Fluorescence Sensitizers Combined Through-Bond and Through-Space Charge Transfers. <i>CCS Chemistry</i> , 2020 , 2, 1268-1277	7.2	22
44	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. <i>Science Bulletin</i> , 2020 , 65, 153-160	10.6	13
43	Modulation of Förster and Dexter Interactions in Single-Emissive-Layer All-Fluorescent WOLEDs for Improved Efficiency and Extended Lifetime. <i>Advanced Functional Materials</i> , 2020 , 30, 1907083	15.6	35
42	Axially Chiral TADF-Active Enantiomers Designed for Efficient Blue Circularly Polarized Electroluminescence. <i>Angewandte Chemie</i> , 2020 , 132, 3528-3532	3.6	21
41	Axially Chiral TADF-Active Enantiomers Designed for Efficient Blue Circularly Polarized Electroluminescence. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3500-3504	16.4	93
40	Synergistic optimization of interfacial energy-level alignment and defect passivation toward efficient annealing-free inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18792-18801	13.1	7
39	A π D and π A Exciplex-Forming Host for High-Efficiency and Long-Lifetime Single-Emissive-Layer Fluorescent White Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2004040	24	35
38	Emerging Self-Emissive Technologies for Flexible Displays. <i>Advanced Materials</i> , 2020 , 32, e1902391	24	55
37	Simultaneous enhancement of efficiency and stability of OLEDs with thermally activated delayed fluorescence materials by modifying carbazoles with peripheral groups. <i>Science China Chemistry</i> , 2019 , 62, 393-402	7.9	23
36	Polycyclic Aromatic Hydrocarbon Derivatives toward Ideal Electron-Transporting Materials for Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2528-2537	6.4	19
35	Investigation on two triphenylene based electron transport materials. <i>Science China Chemistry</i> , 2019 , 62, 775-783	7.9	2
34	Understanding and Manipulating the Interplay of Wide-Energy-Gap Host and TADF Sensitizer in High-Performance Fluorescence OLEDs. <i>Advanced Materials</i> , 2019 , 31, e1901923	24	64

33	Multi-Resonance Induced Thermally Activated Delayed Fluorophores for Narrowband Green OLEDs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16912-16917	16.4	156
32	Multi-Resonance Induced Thermally Activated Delayed Fluorophores for Narrowband Green OLEDs. <i>Angewandte Chemie</i> , 2019 , 131, 17068-17073	3.6	44
31	Making silver a stronger n-dopant than cesium via in situ coordination reaction for organic electronics. <i>Nature Communications</i> , 2019 , 10, 866	17.4	27
30	High Performance Thermally Activated Delayed Fluorescence Sensitized Organic Light-Emitting Diodes. <i>Chemical Record</i> , 2019 , 19, 1611-1623	6.6	27
29	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. <i>Angewandte Chemie</i> , 2018 , 130, 2939-2943	3.6	31
28	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2889-2893	16.4	213
27	Blocking Energy-Loss Pathways for Ideal Fluorescent Organic Light-Emitting Diodes with Thermally Activated Delayed Fluorescent Sensitizers. <i>Advanced Materials</i> , 2018 , 30, 1705250	24	117
26	Versatile Indolocarbazole-Isomer Derivatives as Highly Emissive Emitters and Ideal Hosts for Thermally Activated Delayed Fluorescent OLEDs with Alleviated Efficiency Roll-Off. <i>Advanced Materials</i> , 2018 , 30, 1705406	24	162
25	Long-Lived and Highly Efficient TADF-PhOLED with (A)nd(A)nS Structured Terpyridine Electron-Transporting Material. <i>Advanced Functional Materials</i> , 2018 , 28, 1800429	15.6	35
24	Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17327-17334	9.5	50
23	Efficient red phosphorescent OLEDs based on the energy transfer from interface exciplex: the critical role of constituting molecules. <i>Science China Chemistry</i> , 2018 , 61, 836-843	7.9	16
22	A combinational molecular design to achieve highly efficient deep-blue electrofluorescence. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 745-753	7.1	32
21	High-Performance Fluorescent Organic Light-Emitting Diodes Utilizing an Asymmetric Anthracene Derivative as an Electron-Transporting Material. <i>Advanced Materials</i> , 2018 , 30, e1707590	24	50
20	Highly Efficient Full-Color Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes: Extremely Low Efficiency Roll-Off Utilizing a Host with Small Singlet-Triplet Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4769-4777	9.5	86
19	Stacking: a strategy to improve the electron mobilities of bipolar hosts for TADF and phosphorescent devices with low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3372-3381	7.1	25
18	Sterically Shielded Electron Transporting Material with Nearly 100% Internal Quantum Efficiency and Long Lifetime for Thermally Activated Delayed Fluorescent and Phosphorescent OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19040-19047	9.5	58
17	Multifunctional Materials for High-Performance Double-Layer Organic Light-Emitting Diodes: Comparison of Isomers with and without Thermally Activated Delayed Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17279-17289	9.5	14
16	Multifunctional emitters for efficient simplified non-doped blueish green organic light emitting devices with extremely low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6527-6536	7.1	16

15	Ultrahigh-Efficiency Green PHOLEDs with a Voltage under 3 V and a Power Efficiency of Nearly 110 lm W at Luminance of 10 000 cd m. <i>Advanced Materials</i> , 2017 , 29, 1702847	24	92
14	Non-Doped Sky-Blue OLEDs Based on Simple Structured AIE Emitters with High Efficiencies at Low Driven Voltages. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2189-2196	4.5	19
13	Exploiting p-Type Delayed Fluorescence in Hybrid White OLEDs: Breaking the Trade-off between High Device Efficiency and Long Lifetime. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23197-203	9.5	34
12	Simultaneous Enhancement of Efficiency and Stability of Phosphorescent OLEDs Based on Efficient Förster Energy Transfer from Interface Exciplex. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3825-32	9.5	92
11	Highly efficient blue thermally activated delayed fluorescent OLEDs with record-low driving voltages utilizing high triplet energy hosts with small singlet-triplet splittings. <i>Chemical Science</i> , 2016 , 7, 3355-3363	9.4	163
10	Sterically shielded blue thermally activated delayed fluorescence emitters with improved efficiency and stability. <i>Materials Horizons</i> , 2016 , 3, 145-151	14.4	323
9	Colour-tunable asymmetric cyclometalated Pt(II) complexes and STM-assisted stability assessment of ancillary ligands for OLEDs. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2560-2565	7.1	36
8	Highly Efficient Simplified Single-Emitting-Layer Hybrid WOLEDs with Low Roll-off and Good Color Stability through Enhanced Förster Energy Transfer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28693-700	9.5	110
7	Highly efficient hybrid warm white organic light-emitting diodes using a blue thermally activated delayed fluorescence emitter: exploiting the external heavy-atom effect. <i>Light: Science and Applications</i> , 2015 , 4, e232-e232	16.7	156
6	Towards High Efficiency and Low Roll-Off Orange Electrophosphorescent Devices by Fine Tuning Singlet and Triplet Energies of Bipolar Hosts Based on Indolocarbazole/1, 3, 5-Triazine Hybrids. <i>Advanced Functional Materials</i> , 2014 , 24, 3551-3561	15.6	106
5	Highly efficient and color-stable hybrid warm white organic light-emitting diodes using a blue material with thermally activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8191-8197	7.1	121
4	Towards ideal electrophosphorescent devices with low dopant concentrations: the key role of triplet up-conversion. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8983-8989	7.1	81
3	High-efficiency fluorescent organic light-emitting devices using sensitizing hosts with a small singlet-triplet exchange energy. <i>Advanced Materials</i> , 2014 , 26, 5050-5	24	385
2	Suppressing Competitive Coordination Reaction for Ohmic Cathode Contact Using Amino-Substituted Organic Ligands and Air-Stable Metals. <i>CCS Chemistry</i> , 367-376	7.2	2
1	Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Through-space Charge Transfers. <i>Angewandte Chemie</i> ,	3.6	3