Dongdong Zhang

List of Publications by Year
in descending order

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80	6,847	57758 44	74163 75
papers	citations	h-index	g-index

80	80	80	2772
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highâ€Efficiency Fluorescent Organic Lightâ€Emitting Devices Using Sensitizing Hosts with a Small Singletâ€“Triplet Exchange Energy. Advanced Materials, 2014, 26, 5050-5055.	21.0	496
2	Sterically shielded blue thermally activated delayed fluorescence emitters with improved efficiency and stability. Materials Horizons, 2016, 3, 145-151.	12.2	430
3	Multiâ€Resonance Induced Thermally Activated Delayed Fluorophores for Narrowband Green OLEDs. Angewandte Chemie - International Edition, 2019, 58, 16912-16917.	13.8	356
4	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. Angewandte Chemie - International Edition, 2018, 57, 2889-2893.	13.8	350
5	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
6	Efficient and Stable Deepâ€Blue Fluorescent Organic Lightâ€Emitting Diodes Employing a Sensitizer with Fast Triplet Upconversion. Advanced Materials, 2020, 32, e1908355.	21.0	242
7	Versatile Indolocarbazoleâ€Isomer Derivatives as Highly Emissive Emitters and Ideal Hosts for Thermally Activated Delayed Fluorescent OLEDs with Alleviated Efficiency Rollâ€Off. Advanced Materials, 2018, 30, 1705406.	21.0	217
8	Achieving Pure Green Electroluminescence with CIEy of 0.69 and EQE of 28.2% from an Azaâ€Fused Multiâ€Resonance Emitter. Angewandte Chemie - International Edition, 2020, 59, 17499-17503.	13.8	211
9	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
10	Axially Chiral TADFâ€Active Enantiomers Designed for Efficient Blue Circularly Polarized Electroluminescence. Angewandte Chemie - International Edition, 2020, 59, 3500-3504.	13.8	181
11	Blocking Energyâ€Loss Pathways for Ideal Fluorescent Organic Lightâ€Emitting Diodes with Thermally Activated Delayed Fluorescent Sensitizers. Advanced Materials, 2018, 30, 1705250.	21.0	177
12	Highly efficient hybrid warm white organic light-emitting diodes using a blue thermally activated delayed fluorescence emitter: exploiting the external heavy-atom effect. Light: Science and Applications, 2015, 4, e232-e232.	16.6	171
13	Approaching Nearly 40% External Quantum Efficiency in Organic Light Emitting Diodes Utilizing a Green Thermally Activated Delayed Fluorescence Emitter with an Extended Linear Donorâ€“Acceptorâ€“Donor Structure. Advanced Materials, 2021, 33, e2103293.	21.0	143
14	Sterically Wrapped Multiple Resonance Fluorophors for Suppression of Concentration Quenching and Spectrum Broadening. Angewandte Chemie - International Edition, 2022, 61, .	13.8	140
15	Highly efficient and color-stable hybrid warm white organic light-emitting diodes using a blue material with thermally activated delayed fluorescence. Journal of Materials Chemistry C, 2014, 2, 8191-8197.	5.5	131
16	Emerging Selfâ€Emissive Technologies for Flexible Displays. Advanced Materials, 2020, 32, e1902391.	21.0	131
17	Highly Efficient Simplified Single-Emitting-Layer Hybrid WOLEDs with Low Roll-off and Good Color Stability through Enhanced FÃ¶rster Energy Transfer. ACS Applied Materials & Interfaces, 2015, 7, 28693-28700.	8.0	128
18	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

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19	Understanding and Manipulating the Interplay of Wideâ€Energyâ€Gap Host and TADF Sensitizer in Highâ€Performance Fluorescence OLEDs. Advanced Materials, 2019, 31, e1901923.	21.0	116
20	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
21	Ultrahighâ€Efficiency Green PHOLEDs with a Voltage under 3 V and a Power Efficiency of Nearly 110 lm W^{â^'1} at Luminance of 10 000 cd m^{â^'2}. Advanced Materials, 2017, 29, 1702847.	21.0	112
22	Highly Efficient Full-Color Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes: Extremely Low Efficiency Roll-Off Utilizing a Host with Small Singletâ€“Triplet Splitting. ACS Applied Materials & Interfaces, 2017, 9, 4769-4777.	8.0	107
23	Indolo[3,2,1â€jk]carbazole Embedded Multipleâ€Resonance Fluorophors for Narrowband Deepâ€blue Electroluminescence with EQEâ‰ˆ34.7â€‰% and CIE_yâ‰ˆ0.085. Angewandte Chemie - International Edition, 2021, 60, 12269-12273.	13.8	106
24	Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Throughâ€space Charge Transfers. Angewandte Chemie - International Edition, 2021, 60, 23771-23776.	13.8	100
25	Fusion of Multiâ€Resonance Fragment with Conventional Polycyclic Aromatic Hydrocarbon for Nearly BT.2020 Green Emission. Angewandte Chemie - International Edition, 2022, 61, .	13.8	95
26	Heavy Atom Effect of Bromine Significantly Enhances Exciton Utilization of Delayed Fluorescence Luminogens. ACS Applied Materials & Interfaces, 2018, 10, 17327-17334.	8.0	91
27	Multiâ€Resonance Induced Thermally Activated Delayed Fluorophores for Narrowband Green OLEDs. Angewandte Chemie, 2019, 131, 17068-17073.	2.0	91
28	Towards ideal electrophosphorescent devices with low dopant concentrations: the key role of triplet up-conversion. Journal of Materials Chemistry C, 2014, 2, 8983-8989.	5.5	90
29	A Ï€â€“D and Ï€â€“A Exciplexâ€Forming Host for Highâ€Efficiency and Longâ€Lifetime Singleâ€Emissiveâ€Layer Fluorescent White Organic Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2004040.	21.0	76
30	Sterically Shielded Electron Transporting Material with Nearly 100% Internal Quantum Efficiency and Long Lifetime for Thermally Activated Delayed Fluorescent and Phosphorescent OLEDs. ACS Applied Materials & Interfaces, 2017, 9, 19040-19047.	8.0	75
31	Tough, stable and self-healing luminescent perovskite-polymer matrix applicable to all harsh aquatic environments. Nature Communications, 2022, 13, 1338.	12.8	73
32	Achieving Pure Green Electroluminescence with CIEy of 0.69 and EQE of 28.2% from an Azaâ€Fused Multiâ€Resonance Emitter. Angewandte Chemie, 2020, 132, 17652-17656.	2.0	72
33	Modulation of FÃ¶rster and Dexter Interactions in Singleâ€Emissiveâ€Layer Allâ€Fluorescent WOLEDs for Improved Efficiency and Extended Lifetime. Advanced Functional Materials, 2020, 30, 1907083.	14.9	70
34	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
35	Strategically Modulating Carriers and Excitons for Efficient and Stable Ultrapureâ€Green Fluorescent OLEDs with a Sterically Hindered BODIPY Dopant. Advanced Optical Materials, 2020, 8, 2000483.	7.3	60
36	Multiâ€Resonance Deepâ€Red Emitters with Shallow Potentialâ€Energy Surfaces to Surpass Energyâ€Gap Law**. Angewandte Chemie, 2021, 133, 20661-20666.	2.0	58

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37	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. Angewandte Chemie, 2018, 130, 2939-2943.	2.0	57
38	Accelerating Radiative Decay in Blue Throughâ€Space Charge Transfer Emitters by Minimizing the Faceâ€toâ€Face Donorâ€“Acceptor Distances. Angewandte Chemie - International Edition, 2022, 61, .	13.8	56
39	High-Efficiency Narrow-Band Electro-Fluorescent Devices with Thermally Activated Delayed Fluorescence Sensitizers Combined Through-Bond and Through-Space Charge Transfers. CCS Chemistry, 2020, 2, 1268-1277.	7.8	55
40	Colour-tunable asymmetric cyclometalated Pt(<scp>ii</scp>) complexes and STM-assisted stability assessment of ancillary ligands for OLEDs. Journal of Materials Chemistry C, 2016, 4, 2560-2565.	5.5	51
41	Longâ€Lived and Highly Efficient TADFâ€PhOLED with â€œ(A)_nâ€“Dâ€“(A)_nâ€•Structured Terpyridine Electronâ€Transporting Material. Advanced Functional Materials, 2018, 28, 1800429.	14.9	49
42	High Performance Thermally Activated Delayed Fluorescence Sensitized Organic Lightâ€Emitting Diodes. Chemical Record, 2019, 19, 1611-1623.	5.8	49
43	Progress on Lightâ€Emitting Electrochemical Cells toward Blue Emission, High Efficiency, and Long Lifetime. Advanced Functional Materials, 2020, 30, 1907156.	14.9	49
44	Axially Chiral TADFâ€Active Enantiomers Designed for Efficient Blue Circularly Polarized Electroluminescence. Angewandte Chemie, 2020, 132, 3528-3532.	2.0	48
45	TADF sensitization targets deep-blue. Nature Photonics, 2021, 15, 173-174.	31.4	47
46	A combinational molecular design to achieve highly efficient deep-blue electrofluorescence. Journal of Materials Chemistry C, 2018, 6, 745-753.	5.5	45
47	Exploiting p-Type Delayed Fluorescence in Hybrid White OLEDs: Breaking the Trade-off between High Device Efficiency and Long Lifetime. ACS Applied Materials & Interfaces, 2016, 8, 23197-23203.	8.0	42
48	Making silver a stronger n-dopant than cesium via in situ coordination reaction for organic electronics. Nature Communications, 2019, 10, 866.	12.8	42
49	Nitrogenâ€Embedded Multiâ€Resonance Heteroaromatics with Prolonged Homogeneous Hexatomic Rings. Angewandte Chemie - International Edition, 2022, 61, .	13.8	40
50	Highly Efficient and Stable Blue Organic Lightâ€Emitting Diodes based on Thermally Activated Delayed Fluorophor with Donorâ€Voidâ€Acceptor Motif. Advanced Science, 2022, 9, e2106018.	11.2	40
51	Highly efficient and stable deep-blue OLEDs based on narrowband emitters featuring an orthogonal spiro-configured indolo[3,2,1-de]acridine structure. Chemical Science, 2022, 13, 5622-5630.	7.4	39
52	Thermally activated delayed fluorescence material-sensitized helicene enantiomer-based OLEDs: a new strategy for improving the efficiency of circularly polarized electroluminescence. Science China Materials, 2021, 64, 899-908.	6.3	36
53	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
54	Sterically Wrapped Multiple Resonance Fluorophors for Suppression of Concentration Quenching and Spectrum Broadening. Angewandte Chemie, 2022, 134, .	2.0	32

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55	Simultaneous enhancement of efficiency and stability of OLEDs with thermally activated delayed fluorescence materials by modifying carbazoles with peripheral groups. Science China Chemistry, 2019, 62, 393-402.	8.2	29
56	Amineâ€Directed Formation of Bâ”N Bonds for BNâ€Fused Polycyclic Aromatic Multiple Resonance Emitters with Narrowband Emission. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
57	Ï€â€“Ï€ stacking: a strategy to improve the electron mobilities of bipolar hosts for TADF and phosphorescent devices with low efficiency roll-off. Journal of Materials Chemistry C, 2017, 5, 3372-3381.	5.5	28
58	Polycyclic Aromatic Hydrocarbon Derivatives toward Ideal Electron-Transporting Materials for Organic Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2019, 10, 2528-2537.	4.6	27
59	Nonâ€Doped Skyâ€Blue OLEDs Based on Simple Structured AIE Emitters with High Efficiencies at Low Driven Voltages. Chemistry - an Asian Journal, 2017, 12, 2189-2196.	3.3	24
60	Efficient red phosphorescent OLEDs based on the energy transfer from interface exciplex: the critical role of constituting molecules. Science China Chemistry, 2018, 61, 836-843.	8.2	23
61	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
62	Indolo[3,2,1â€jk]carbazole Embedded Multipleâ€Resonance Fluorophors for Narrowband Deepâ€blue Electroluminescence with EQEâ‰ˆ34.7â€% and CIE_yâ‰ˆ0.085. Angewandte Chemie, 2021, 133, 12377-12381.	2.0	22
63	Multifunctional emitters for efficient simplified non-doped blueish green organic light emitting devices with extremely low efficiency roll-off. Journal of Materials Chemistry C, 2017, 5, 6527-6536.	5.5	21
64	Highly efficient inverted polymer solar cells by using solution processed MgO/ZnO composite interfacial layers. Journal of Colloid and Interface Science, 2021, 583, 178-187.	9.4	20
65	Fusion of Multiâ€Resonance Fragment with Conventional Polycyclic Aromatic Hydrocarbon for Nearly BT.2020 Green Emission. Angewandte Chemie, 2022, 134, .	2.0	19
66	Simultaneously Enhanced Reverse Intersystem Crossing and Radiative Decay in Thermally Activated Delayed Fluorophors with Multiple Throughâ€space Charge Transfers. Angewandte Chemie, 2021, 133, 23964-23969.	2.0	18
67	Multifunctional Materials for High-Performance Double-Layer Organic Light-Emitting Diodes: Comparison of Isomers with and without Thermally Activated Delayed Fluorescence. ACS Applied Materials & Interfaces, 2017, 9, 17279-17289.	8.0	16
68	Synergistic optimization of interfacial energy-level alignment and defect passivation toward efficient annealing-free inverted polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 18792-18801.	10.3	15
69	Decoration Strategy in Para Boron Position: An Effective Way to Achieve Ideal Multiâ€Resonance Emitters. Chemistry - A European Journal, 2022, 28, .	3.3	14
70	Accelerating Radiative Decay in Blue Throughâ€Space Charge Transfer Emitters by Minimizing the Faceâ€toâ€Face Donorâ€“Acceptor Distances. Angewandte Chemie, 0, , .	2.0	11
71	Modulation of ligand conjugation for efficient FAPbBr₃ based green light-emitting diodes. Materials Chemistry Frontiers, 2020, 4, 1383-1389.	5.9	9
72	Nitrogenâ€Embedded Multiâ€Resonance Heteroaromatics with Prolonged Homogeneous Hexatomic Rings. Angewandte Chemie, 0, , .	2.0	9

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73	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
74	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
75	Amineâ€directed Formation of Bâ€“N Bonds for BNâ€fused Polycyclic Aromatic Multiple Resonance Emitters with Narrowband Emission. Angewandte Chemie, 0, , .	2.0	6
76	Investigation on two triphenylene based electron transport materials. Science China Chemistry, 2019, 62, 775-783.	8.2	5
77	In situ-formed tetrahedrally coordinated double-helical metal complexes for improved coordination-activated n-doping. Nature Communications, 2022, 13, 1215.	12.8	5
78	Indeno-anthraquinone hosts with thermally activated delayed fluorescence for deep-red OLEDs. Journal of Materials Chemistry C, 2022, 10, 4668-4673.	5.5	3
79	38.2: Invited Paper: A sensitized way towards stable blue OLEDs. Digest of Technical Papers SID International Symposium, 2021, 52, 484-485.	0.3	0
80	12.1: Invited Paper: Efficiency enhancement in dual emission OLEDs. Digest of Technical Papers SID International Symposium, 2021, 52, 176-178.	0.3	0