Dezhi Yang

List of Publications by Year
in descending order

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69	2,445	201385	214527
papers	citations	27 h-index	47 g-index

70	70	70	2060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An efficient aggregationâ€enhanced delayed fluorescence luminogen created with spiro donors and carbonyl acceptor for applications as an emitter and sensitizer in highâ€performance organic lightâ€emitting diodes. Aggregate, 2023, 4, .	5.2	9
2	Efficient exciton regulation for high-performance hybrid white organic light-emitting diodes with superior efficiency/CRI/color stability based on blue aggregation-induced emission fluorophor. Organic Electronics, 2022, 101, 106425.	1.4	2
3	Creating efficient delayed fluorescence luminogens with acridine-based spiro donors to improve horizontal dipole orientation for high-performance OLEDs. Chemical Engineering Journal, 2022, 435, 134934.	6.6	19
4	Lowâ€Cost Copper Electrode for Highâ€Performance Panchromatic Multiplicationâ€Type Organic Photodetectors with Optical Microcavity Effect. Advanced Functional Materials, 2022, 32, .	7.8	15
5	Solid experimental evidence for reverse intersystem crossing from high-lying triplet states: A case study on hot exciton mechanism in OLEDs. Applied Physics Letters, 2022, 120, 083501.	1.5	2
6	Novel deep-blue hot exciton material for high-efficiency nondoped organic light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 6596-6602.	2.7	11
7	Improved transient electroluminescence technique based on time-correlated single-photon counting technology to evaluate organic mobility. Frontiers of Optoelectronics, 2022, 15, 1.	1.9	2
8	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.	3.7	39
9	Improvement of exciton utilization by suppressing exciton leakage for high efficiency blue and white organic light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 8349-8355.	2.7	5
10	Exciton Regulation for Organic Light-Emitting Diodes with Improved Efficiency and Roll-Off by Managing the Bipolar Spacer Layers Based on Interfacial Exciplexes. ACS Applied Electronic Materials, 2022, 4, 3088-3098.	2.0	5
11	Visible-blind ultraviolet narrowband photomultiplication-type organic photodetector with an ultrahigh external quantum efficiency of over 1â€‰000â€‰000%. Materials Horizons, 2021, 8, 2293-2302.	6.4	34
12	Highly stable and efficient Î±-phase FA-based perovskite solar cells prepared in ambient air by strategically enhancing the interaction between ions in crystal lattices. Sustainable Energy and Fuels, 2021, 5, 4268-4276.	2.5	8
13	High efficiency and long lifetime fluorescent white organic light-emitting diodes by phosphor sensitization to strategically manage singlet and triplet excitons. Journal of Materials Chemistry C, 2021, 9, 3626-3634.	2.7	7
14	Unraveling the Important Role of Highâ€Lying Tripletâ€“Lowest Excited Singlet Transitions in Achieving Highly Efficient Deepâ€Blue AIEâ€Based OLEDs. Advanced Materials, 2021, 33, e2006953.	11.1	66
15	Efficiency Breakthrough of Fluorescence OLEDs by the Strategic Management of â€œHot Excitonsâ€•at Highly Lying Excitation Triplet Energy Levels. Advanced Functional Materials, 2021, 31, 2106912.	7.8	75
16	Realizing Recordâ€High Electroluminescence Efficiency of 31.5â€‰% for Red Thermally Activated Delayed Fluorescence Molecules. Angewandte Chemie, 2021, 133, 23827-23832.	1.6	19
17	Realizing Recordâ€High Electroluminescence Efficiency of 31.5â€‰% for Red Thermally Activated Delayed Fluorescence Molecules. Angewandte Chemie - International Edition, 2021, 60, 23635-23640.	7.2	147
18	Highly efficient red thermally activated delayed fluorescence emitters by manipulating the molecular horizontal orientation. Materials Chemistry Frontiers, 2021, 5, 3209-3215.	3.2	28

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19	Boosting external quantum efficiency to 38.6% of sky-blue delayed fluorescence molecules by optimizing horizontal dipole orientation. Science Advances, 2021, 7, eabj2504.	4.7	58
20	High efficiency and low efficiency roll-off all fluorescent white organic light-emitting diodes based on phosphor sensitization. Journal of Materials Chemistry C, 2020, 8, 1666-1672.	2.7	11
21	Structure design and performance of photomultiplication-type organic photodetectors based on an aggregation-induced emission material. Nanoscale, 2020, 12, 2648-2656.	2.8	36
22	Simultaneous high efficiency/CRI/spectral stability and low efficiency roll-off hybrid white organic light-emitting diodes via simple insertion of ultrathin red/green phosphorescent emitters in a blue exciplex. Journal of Materials Chemistry C, 2020, 8, 12450-12456.	2.7	12
23	High efficiency blue and color-stable hybrid warm white organic light-emitting diodes based on a thermally activated delayed fluorescent material as an assistant host. Journal of Materials Chemistry C, 2020, 8, 13777-13785.	2.7	15
24	Airâ€Processed Perovskite Films with Innerâ€toâ€Outside Passivation for Highâ€Efficiency Solar Cells. Solar Rrl, 2020, 4, 2000410.	3.1	5
25	High efficiency, low efficiency roll-off and long lifetime fluorescent white organic light-emitting diodes based on strategic management of triplet excitons via tripletâ€“triplet annihilation up-conversion and phosphor sensitization. Journal of Materials Chemistry C, 2020, 8, 8077-8084.	2.7	5
26	High efficiency and long lifetime fluorescent organic light-emitting diodes based on cascaded energy transfer processes to efficiently utilize triplet excitons via sensitizer. Organic Electronics, 2020, 84, 105824.	1.4	15
27	High efficiency doping-free warm-white organic light-emitting diodes with strategic-tuning of radiative excitons by combining interfacial exciplex with multi-ultrathin emissive layers. Organic Electronics, 2020, 85, 105876.	1.4	7
28	Role of interfaces in controlling charge accumulation and injection in the photodetection performance of photomultiplication-type organic photodetectors. Journal of Materials Chemistry C, 2020, 8, 9024-9031.	2.7	19
29	Novel strategy to improve the efficiency roll-off at high luminance and operational lifetime of hybrid white OLEDs via employing an assistant layer with tripletâ€“triplet annihilation up-conversion characteristics. Journal of Materials Chemistry C, 2020, 8, 6577-6586.	2.7	10
30	High-performance white organic light-emitting diodes with doping-free device architecture based on the exciton adjusting interfacial exciplex. Journal of Materials Chemistry C, 2020, 8, 7019-7025.	2.7	11
31	Highly efficient fluorescence/phosphorescence hybrid white organic light-emitting devices based on a bipolar blue emitter to precisely control charges and excitons. Journal of Materials Chemistry C, 2020, 8, 7543-7551.	2.7	20
32	Superior Efficiency and Low-Efficiency Roll-Off White Organic Light-Emitting Diodes Based on Multiple Exciplexes as Hosts Matched to Phosphor Emitters. ACS Applied Materials & Interfaces, 2019, 11, 31078-31086.	4.0	19
33	High efficiency organic light-emitting diodes based on HAT-CN/TAPC heterojunction charge generation layer as charge injectors. Semiconductor Science and Technology, 2019, 34, 105010.	1.0	14
34	EL Properties and Exciton Dynamics of Highâ€Performance Dopingâ€Free Hybrid WOLEDs Based on 4Pâ€NPD/Bepp 2 Heterojunction as Blue Emitter. Advanced Optical Materials, 2019, 7, 1900703.	3.6	21
35	Highâ€Performance White Organic Lightâ€Emitting Diodes with High Efficiency, Low Efficiency Rollâ€Off, and Superior Color Stability/Color Rendering Index by Strategic Design of Exciplex Hosts. Advanced Optical Materials, 2019, 7, 1901291.	3.6	22
36	High efficiency blue/green/yellow/red fluorescent organic light-emitting diodes sensitized by phosphors: general design rules and electroluminescence performance analysis. Journal of Materials Chemistry C, 2019, 7, 11293-11302.	2.7	21

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37	High efficiency color-tunable organic light-emitting diodes with ultra-thin emissive layers in blue phosphor doped exciplex. Applied Physics Letters, 2019, 114, .	1.5	15
38	Strategic-tuning of radiative excitons for efficient and stable fluorescent white organic light-emitting diodes. Nature Communications, 2019, 10, 2380.	5.8	84
39	High efficiency warm white organic light-emitting diodes with precise confinement of charge carriers and excitons in the exciplex host system. Journal of Materials Chemistry C, 2019, 7, 7114-7120.	2.7	12
40	High Efficiency and Low Rollâ€Off Hybrid WOLEDs by Using a Deep Blue Aggregationâ€Induced Emission Material Simultaneously as Blue Emitter and Phosphor Host. Advanced Optical Materials, 2019, 7, 1801539.	3.6	23
41	Precise regulation of the emissive layer for ultra-high performance white organic light-emitting diodes in an exciplex forming co-host system. Materials Chemistry Frontiers, 2019, 3, 640-649.	3.2	17
42	Design and performance study of high efficiency/low efficiency roll-off/high CRI hybrid WOLEDs based on aggregation-induced emission materials as fluorescent emitters. Materials Chemistry Frontiers, 2019, 3, 2652-2658.	3.2	17
43	High efficiency hybrid white organic light-emitting diodes based on a simple and efficient exciton regulation emissive layer structure. RSC Advances, 2018, 8, 40883-40893.	1.7	2
44	Improvement of efficiency and its roll-off at high brightness in white organic light-emitting diodes by strategically managing triplet excitons in the emission layer. Journal of Materials Chemistry C, 2018, 6, 10793-10803.	2.7	27
45	Low-LUMO acceptor polymers for high-gain all-polymer photodiodes. Journal of Materials Chemistry C, 2018, 6, 10838-10844.	2.7	6
46	Near infrared to visible light organic up-conversion devices with photon-to-photon conversion efficiency approaching 30%. Materials Horizons, 2018, 5, 874-882.	6.4	33
47	Lowâ€Bandgap Terpolymers for Highâ€Gain Photodiodes with High Detectivity and Responsivity from 300â€...nm to 1600â€...nm. ChemistrySelect, 2018, 3, 7385-7393.	0.7	6
48	Lowâ€Bandgap Polymers for Highâ€Performance Photodiodes with Maximal EQE near 1200 nm and Broad Spectral Response from 300 to 1700 nm. Advanced Optical Materials, 2018, 6, 1800038.	3.6	62
49	Highâ€Detectivity Allâ€Polymer Photodetectors with Spectral Response from 300 to 1100 nm. Macromolecular Chemistry and Physics, 2016, 217, 1683-1689.	1.1	34
50	C₇₀/Pentacene Organic Heterojunction as Charge Generator to Realize Highly Efficient Charge Carrier Injection in Organic Lightâ€Emitting Diodes: Performance and Mechanism Analysis. Advanced Materials Interfaces, 2016, 3, 1600081.	1.9	9
51	Vapour-assisted multi-functional perovskite thin films for solar cells and photodetectors. Journal of Materials Chemistry C, 2016, 4, 7415-7419.	2.7	25
52	Ultrahigh Gain Polymer Photodetectors with Spectral Response from UV to Nearâ€Infrared Using ZnO Nanoparticles as Anode Interfacial Layer. Advanced Functional Materials, 2016, 26, 6619-6626.	7.8	71
53	Management of Singlet and Triplet Excitons: A Universal Approach to Highâ€Efficiency All Fluorescent WOLEDs with Reduced Efficiency Rollâ€Off Using a Conventional Fluorescent Emitter. Advanced Optical Materials, 2016, 4, 1067-1074.	3.6	84
54	Highâ€Performance Hybrid White Organic Lightâ€Emitting Diodes with Superior Efficiency/Color Rendering Index/Color Stability and Low Efficiency Rollâ€Off Based on a Blue Thermally Activated Delayed Fluorescent Emitter. Advanced Functional Materials, 2016, 26, 3306-3313.	7.8	154

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55	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. ACS Applied Materials & Interfaces, 2016, 8, 3150-3159.	4.0	34
56	Deep ultraviolet-to-NIR broad spectral response organic photodetectors with large gain. Journal of Materials Chemistry C, 2016, 4, 2160-2164.	2.7	44
57	Charge generation mechanism of tandem organic light emitting diodes with pentacene/C₇₀ organic heterojunction as the connecting layer. Journal of Materials Chemistry C, 2016, 4, 376-382.	2.7	32
58	Realization of Optimal Interconnector for Tandem Organic Lightâ€Emitting Diodes with Record Efficiency. Advanced Electronic Materials, 2015, 1, 1500176.	2.6	28
59	Extremely Low Dark Current, High Responsivity, Allâ€Polymer Photodetectors with Spectral Response from 300 nm to 1000 nm. Advanced Optical Materials, 2015, 3, 1570-1576.	3.6	123
60	Optimization of Broad-Response and High-Detectivity Polymer Photodetectors by Bandgap Engineering of Weak Donorâ€“Strong Acceptor Polymers. Macromolecules, 2015, 48, 3941-3948.	2.2	72
61	High Efficiency Tandem Organic Light Emitting Diode Using an Organic Heterojunction as the Charge Generation Layer: An Investigation into the Charge Generation Model and Device Performance. ACS Photonics, 2015, 2, 271-279.	3.2	97
62	Significant Enhancement of the Detectivity of Polymer Photodetectors by Using Electrochemically Deposited Interfacial Layers of Crosslinked Polycarbazole and Carbazoleâ€Tethered Gold Nanoparticles. Advanced Materials Interfaces, 2015, 2, 1400475.	1.9	16
63	Solutionâ€Processable Holeâ€Generation Layer and Electronâ€Transporting Layer: Towards Highâ€Performance, Alternatingâ€Currentâ€Driven, Fieldâ€Induced Polymer Electroluminescent Devices. Advanced Functional Materials, 2014, 24, 2677-2688.	7.8	37
64	Highâ€Performance Hybrid White Organic Lightâ€Emitting Devices without Interlayer between Fluorescent and Phosphorescent Emissive Regions. Advanced Materials, 2014, 26, 1617-1621.	11.1	231
65	Panchromatic small molecules for UV-Vis-NIR photodetectors with high detectivity. Journal of Materials Chemistry C, 2014, 2, 2431.	2.7	54
66	Thin Films: Solution-Processed Highly Efficient Alternating Current-Driven Field-Induced Polymer Electroluminescent Devices Employing High-kRelaxor Ferroelectric Polymer Dielectric (Adv. Funct.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50		
67	Solutionâ€Processed Highly Efficient Alternating Currentâ€Driven Fieldâ€Induced Polymer Electroluminescent Devices Employing Highâ€k Relaxor Ferroelectric Polymer Dielectric. Advanced Functional Materials, 2014, 24, 1501-1508.	7.8	51
68	A hybrid white organic light-emitting diode with above 20% external quantum efficiency and extremely low efficiency roll-off. Journal of Materials Chemistry C, 2014, 2, 7494-7504.	2.7	41
69	Optimization of Solubility, Film Morphology and Photodetector Performance by Molecular Sideâ€Chain Engineering of Lowâ€Bandgap Thienothiadiazoleâ€Based Polymers. Advanced Functional Materials, 2014, 24, 7605-7612.	7.8	89