

Dezhi Yang

List of Publications by Year in descending order

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69
papers

2,445
citations

201385

27
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214527

47
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70
all docs

70
docs citations

70
times ranked

2060
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Hybrid White Organic Light-Emitting Devices without Interlayer between Fluorescent and Phosphorescent Emissive Regions. <i>Advanced Materials</i> , 2014, 26, 1617-1621.	11.1	231
2	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.	7.8	154
3	Realizing Record-High Electroluminescence Efficiency of 31.5% for Red Thermally Activated Delayed Fluorescence Molecules. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23635-23640.	7.2	147
4	Extremely Low Dark Current, High Responsivity, All-Polymer Photodetectors with Spectral Response from 300 nm to 1000 nm. <i>Advanced Optical Materials</i> , 2015, 3, 1570-1576.	3.6	123
5	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. <i>ACS Photonics</i> , 2015, 2, 271-279.	3.2	97
6	Optimization of Solubility, Film Morphology and Photodetector Performance by Molecular Side-Chain Engineering of Low-Bandgap Thienothiadiazole-Based Polymers. <i>Advanced Functional Materials</i> , 2014, 24, 7605-7612.	7.8	89
7	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.	3.6	84
8	Strategic-tuning of radiative excitons for efficient and stable fluorescent white organic light-emitting diodes. <i>Nature Communications</i> , 2019, 10, 2380.	5.8	84
9	Efficiency Breakthrough of Fluorescence OLEDs by the Strategic Management of "Hot Excitons" at Highly Lying Excitation Triplet Energy Levels. <i>Advanced Functional Materials</i> , 2021, 31, 2106912.	7.8	75
10	Optimization of Broad-Response and High-Detectivity Polymer Photodetectors by Bandgap Engineering of Weak Donor-Strong Acceptor Polymers. <i>Macromolecules</i> , 2015, 48, 3941-3948.	2.2	72
11	Ultrahigh Gain Polymer Photodetectors with Spectral Response from UV to Near-Infrared Using ZnO Nanoparticles as Anode Interfacial Layer. <i>Advanced Functional Materials</i> , 2016, 26, 6619-6626.	7.8	71
12	Unraveling the Important Role of High-Lying Triplet-Lowest Excited Singlet Transitions in Achieving Highly Efficient Deep-Blue AIE-Based OLEDs. <i>Advanced Materials</i> , 2021, 33, e2006953.	11.1	66
13	Low-Bandgap Polymers for High-Performance Photodiodes with Maximal EQE near 1200 nm and Broad Spectral Response from 300 to 1700 nm. <i>Advanced Optical Materials</i> , 2018, 6, 1800038.	3.6	62
14	Boosting external quantum efficiency to 38.6% of sky-blue delayed fluorescence molecules by optimizing horizontal dipole orientation. <i>Science Advances</i> , 2021, 7, eabj2504.	4.7	58
15	Panchromatic small molecules for UV-Vis-NIR photodetectors with high detectivity. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2431.	2.7	54
16	Solution-Processed Highly Efficient Alternating Current-Driven Field-Induced Polymer Electroluminescent Devices Employing High-Relaxor Ferroelectric Polymer Dielectric. <i>Advanced Functional Materials</i> , 2014, 24, 1501-1508.	7.8	51
17	Deep ultraviolet-to-NIR broad spectral response organic photodetectors with large gain. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2160-2164.	2.7	44
18	A hybrid white organic light-emitting diode with above 20% external quantum efficiency and extremely low efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7494-7504.	2.7	41

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19	Highly efficient and stable deep-blue OLEDs based on narrowband emitters featuring an orthogonal spiro-configured indolo[3,2,1- <i>i</i>]acridine structure. <i>Chemical Science</i> , 2022, 13, 5622-5630.	3.7	39
20	Solution-Processable Hole-Generation Layer and Electron-Transporting Layer: Towards High-Performance, Alternating-Current-Driven, Field-Induced Polymer Electroluminescent Devices. <i>Advanced Functional Materials</i> , 2014, 24, 2677-2688.	7.8	37
21	Structure design and performance of photomultiplication-type organic photodetectors based on an aggregation-induced emission material. <i>Nanoscale</i> , 2020, 12, 2648-2656.	2.8	36
22	High-Detectivity All-Polymer Photodetectors with Spectral Response from 300 to 1100 nm. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1683-1689.	1.1	34
23	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, 3150-3159.	4.0	34
24	Visible-blind ultraviolet narrowband photomultiplication-type organic photodetector with an ultrahigh external quantum efficiency of over 1‰. <i>Materials Horizons</i> , 2021, 8, 2293-2302.	6.4	34
25	Near infrared to visible light organic up-conversion devices with photon-to-photon conversion efficiency approaching 30%. <i>Materials Horizons</i> , 2018, 5, 874-882.	6.4	33
26	Charge generation mechanism of tandem organic light emitting diodes with pentacene/C ₇₀ organic heterojunction as the connecting layer. <i>Journal of Materials Chemistry C</i> , 2016, 4, 376-382.	2.7	32
27	Realization of Optimal Interconnector for Tandem Organic Light-Emitting Diodes with Record Efficiency. <i>Advanced Electronic Materials</i> , 2015, 1, 1500176.	2.6	28
28	Highly efficient red thermally activated delayed fluorescence emitters by manipulating the molecular horizontal orientation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3209-3215.	3.2	28
29	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. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10793-10803.	2.7	27
30	Vapour-assisted multi-functional perovskite thin films for solar cells and photodetectors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7415-7419.	2.7	25
31	High Efficiency and Low Roll-Off Hybrid WOLEDs by Using a Deep Blue Aggregation-Induced Emission Material Simultaneously as Blue Emitter and Phosphor Host. <i>Advanced Optical Materials</i> , 2019, 7, 1801539.	3.6	23
32	High-Performance White Organic Light-Emitting Diodes with High Efficiency, Low Efficiency Roll-Off, and Superior Color Stability/Color Rendering Index by Strategic Design of Exciplex Hosts. <i>Advanced Optical Materials</i> , 2019, 7, 1901291.	3.6	22
33	EL Properties and Exciton Dynamics of High-Performance Doping-Free Hybrid WOLEDs Based on 4P-NPD/Bepp 2 Heterojunction as Blue Emitter. <i>Advanced Optical Materials</i> , 2019, 7, 1900703.	3.6	21
34	High efficiency blue/green/yellow/red fluorescent organic light-emitting diodes sensitized by phosphors: general design rules and electroluminescence performance analysis. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11293-11302.	2.7	21
35	Highly efficient fluorescence/phosphorescence hybrid white organic light-emitting devices based on a bipolar blue emitter to precisely control charges and excitons. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7543-7551.	2.7	20
36	Superior Efficiency and Low-Efficiency Roll-Off White Organic Light-Emitting Diodes Based on Multiple Exciplexes as Hosts Matched to Phosphor Emitters. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31078-31086.	4.0	19

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37	Role of interfaces in controlling charge accumulation and injection in the photodetection performance of photomultiplication-type organic photodetectors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9024-9031.	2.7	19
38	Realizing Recordâ€High Electroluminescence Efficiency of 31.5â€% for Red Thermally Activated Delayed Fluorescence Molecules. <i>Angewandte Chemie</i> , 2021, 133, 23827-23832.	1.6	19
39	Creating efficient delayed fluorescence luminogens with acridine-based spiro donors to improve horizontal dipole orientation for high-performance OLEDs. <i>Chemical Engineering Journal</i> , 2022, 435, 134934.	6.6	19
40	Precise regulation of the emissive layer for ultra-high performance white organic light-emitting diodes in an exciplex forming co-host system. <i>Materials Chemistry Frontiers</i> , 2019, 3, 640-649.	3.2	17
41	Design and performance study of high efficiency/low efficiency roll-off/high CRI hybrid WOLEDs based on aggregation-induced emission materials as fluorescent emitters. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2652-2658.	3.2	17
42	Significant Enhancement of the Detectivity of Polymer Photodetectors by Using Electrochemically Deposited Interfacial Layers of Crosslinked Polycarbazole and Carbazoleâ€ethered Gold Nanoparticles. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400475.	1.9	16
43	High efficiency color-tunable organic light-emitting diodes with ultra-thin emissive layers in blue phosphor doped exciplex. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	15
44	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. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13777-13785.	2.7	15
45	High efficiency and long lifetime fluorescent organic light-emitting diodes based on cascaded energy transfer processes to efficiently utilize triplet excitons via sensitizer. <i>Organic Electronics</i> , 2020, 84, 105824.	1.4	15
46	Lowâ€Cost Copper Electrode for Highâ€Performance Panchromatic Multiplicationâ€Type Organic Photodetectors with Optical Microcavity Effect. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	15
47	High efficiency organic light-emitting diodes based on HAT-CN/TAPC heterojunction charge generation layer as charge injectors. <i>Semiconductor Science and Technology</i> , 2019, 34, 105010.	1.0	14
48	High efficiency warm white organic light-emitting diodes with precise confinement of charge carriers and excitons in the exciplex host system. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7114-7120.	2.7	12
49	Simultaneous high efficiency/CRI/spectral stability and low efficiency roll-off hybrid white organic light-emitting diodes <i>via</i> simple insertion of ultrathin red/green phosphorescent emitters in a blue exciplex. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12450-12456.	2.7	12
50	High efficiency and low efficiency roll-off all fluorescent white organic light-emitting diodes based on phosphor sensitization. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1666-1672.	2.7	11
51	High-performance white organic light-emitting diodes with doping-free device architecture based on the exciton adjusting interfacial exciplex. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7019-7025.	2.7	11
52	Novel deep-blue hot exciton material for high-efficiency nondoped organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6596-6602.	2.7	11
53	Novel strategy to improve the efficiency roll-off at high luminance and operational lifetime of hybrid white OLEDs <i>via</i> employing an assistant layer with tripletâ€triplet annihilation up-conversion characteristics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6577-6586.	2.7	10
54	C₇₀/Pentacene Organic Heterojunction as Charge Generator to Realize Highly Efficient Charge Carrier Injection in Organic Lightâ€Emitting Diodes: Performance and Mechanism Analysis. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600081.	1.9	9

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55	An efficient aggregation-enhanced delayed fluorescence luminogen created with spiro donors and carbonyl acceptor for applications as an emitter and sensitizer in high-performance organic light-emitting diodes. <i>Aggregate</i> , 2023, 4, .	5.2	9
56	Highly stable and efficient Γ -phase FA-based perovskite solar cells prepared in ambient air by strategically enhancing the interaction between ions in crystal lattices. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4268-4276.	2.5	8
57	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. <i>Organic Electronics</i> , 2020, 85, 105876.	1.4	7
58	High efficiency and long lifetime fluorescent white organic light-emitting diodes by phosphor sensitization to strategically manage singlet and triplet excitons. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3626-3634.	2.7	7
59	Low-LUMO acceptor polymers for high-gain all-polymer photodiodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10838-10844.	2.7	6
60	Low-Bandgap Terpolymers for High-Gain Photodiodes with High Detectivity and Responsivity from 300 nm to 1600 nm. <i>ChemistrySelect</i> , 2018, 3, 7385-7393.	0.7	6
61	Air-Processed Perovskite Films with Inner-Outside Passivation for High-Efficiency Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000410.	3.1	5
62	High efficiency, low efficiency roll-off and long lifetime fluorescent white organic light-emitting diodes based on strategic management of triplet excitons via triplet-triplet annihilation up-conversion and phosphor sensitization. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8077-8084.	2.7	5
63	Improvement of exciton utilization by suppressing exciton leakage for high efficiency blue and white organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8349-8355.	2.7	5
64	Exciton Regulation for Organic Light-Emitting Diodes with Improved Efficiency and Roll-Off by Managing the Bipolar Spacer Layers Based on Interfacial Exciplexes. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3088-3098.	2.0	5
65	High efficiency hybrid white organic light-emitting diodes based on a simple and efficient exciton regulation emissive layer structure. <i>RSC Advances</i> , 2018, 8, 40883-40893.	1.7	2
66	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. <i>Organic Electronics</i> , 2022, 101, 106425.	1.4	2
67	Solid experimental evidence for reverse intersystem crossing from high-lying triplet states: A case study on hot exciton mechanism in OLEDs. <i>Applied Physics Letters</i> , 2022, 120, 083501.	1.5	2
68	Improved transient electroluminescence technique based on time-correlated single-photon counting technology to evaluate organic mobility. <i>Frontiers of Optoelectronics</i> , 2022, 15, 1.	1.9	2
69	Thin Films: Solution-Processed Highly Efficient Alternating Current-Driven Field-Induced Polymer Electroluminescent Devices Employing High-k Relaxor Ferroelectric Polymer Dielectric (Adv. Funct.) <i>Tj ETQq1</i> 1 0.784314 rgBTi/Overlook		