

Xiaoyang Du

List of Publications by Year in descending order

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papers

1,085
citations

361413

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citing authors

#	ARTICLE	IF	CITATIONS
1	Delayed Fluorescence Emitter Enables Near 17% Efficiency Ternary Organic Solar Cells with Enhanced Storage Stability and Reduced Recombination Energy Loss. <i>Advanced Functional Materials</i> , 2020, 30, 1909837.	14.9	108
2	Novel small-molecule electron donor for solution-processed ternary exciplex with 24% external quantum efficiency in organic light-emitting diode. <i>Materials Horizons</i> , 2019, 6, 1425-1432.	12.2	69
3	Hydrogen Bond Induced Green Solvent Processed High Performance Ternary Organic Solar Cells with Good Tolerance on Film Thickness and Blend Ratios. <i>Advanced Functional Materials</i> , 2019, 29, 1902078.	14.9	60
4	Efficient solution-processed blue and white OLEDs based on a high-triplet bipolar host and a blue TADF emitter. <i>Organic Electronics</i> , 2018, 58, 276-282.	2.6	53
5	Blue and white solution-processed TADF-OLEDs with over 20% EQE, low driving voltages and moderate efficiency decrease based on interfacial exciplex hosts. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11806-11812.	5.5	51
6	Multifunctional Phenanthroimidazole Derivatives to Realize High-Performance Deep-Blue and White Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2017, 5, 1700498.	7.3	41
7	White OLEDs with an EQE of 21% at 5000 cd m ⁻² and Ultra High Color Stability Based on Exciplex Host. <i>Advanced Optical Materials</i> , 2018, 6, 1800825.	7.3	39
8	Modulating the molecular packing and distribution enables fullerene-free ternary organic solar cells with high efficiency and long shelf-life. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20139-20150.	10.3	38
9	High-performance fluorescent/phosphorescent (F/P) hybrid white OLEDs consisting of a yellowish-green phosphorescent emitter. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5907-5913.	5.5	35
10	Hydrogen bond induced high performance ternary fullerene-free organic solar cells with increased current density and enhanced stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9691-9702.	5.5	35
11	High performance opaque and semi-transparent organic solar cells with good tolerance to film thickness realized by a unique solid additive. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7437-7450.	10.3	34
12	Layer-by-Layer Solution Processing Method for Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, .	5.8	34
13	Photomemory and Pulse Monitoring Featured Solution-Processed Near-Infrared Graphene/Organic Phototransistor with Detectivity of 2.4×10^{13} Jones. <i>Advanced Functional Materials</i> , 2021, 31, 2103988.	14.9	31
14	Excimer emission induced intra-system self-absorption enhancement – a novel strategy to realize high efficiency and excellent stability ternary organic solar cells processed in green solvents. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23840-23855.	10.3	30
15	Efficient fluorescence/phosphorescence white organic light-emitting diodes with ultra high color stability and mild efficiency roll-off. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	29
16	Hydrogen bond induced high-performance quaternary organic solar cells with efficiency up to 17.48% and superior thermal stability. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3850-3858.	5.9	28
17	Hydrogen-Bond-Induced High Performance Semitransparent Ternary Organic Solar Cells with 14% Efficiency and Enhanced Stability. <i>Advanced Optical Materials</i> , 2021, 9, 2100064.	7.3	26
18	Bromine-substituted triphenylamine derivatives with improved hole-mobility for highly efficient green phosphorescent OLEDs with a low operating voltage. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10301-10308.	5.5	24

#	ARTICLE	IF	CITATIONS
19	Recent Progress in 2D Inorganic/Organic Charge Transfer Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	23
20	Hydrogenâ€Bonding Strategy to Optimize Charge Distribution of PC₇₁BM and Enable a High Efficiency of 12.45% for Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800038.	5.8	22
21	Ternary System with Intermolecular Hydrogen Bond: Efficient Strategy to High-Performance Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15598-15606.	8.0	21
22	Additive-Induced Vertical Component Distribution Enables High-Performance Sequentially Cast Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25842-25850.	8.0	20
23	Fullerene's ring: A new strategy to improve the performance of fullerene organic solar cells. <i>Organic Electronics</i> , 2020, 83, 105747.	2.6	19
24	Efficient Organic Upconversion Devices for Low Energy Consumption and Highâ€Quality Noninvasive Imaging. <i>Advanced Materials</i> , 2021, 33, e2102812.	21.0	19
25	Ternary organic solar cells with a phase-modulated surface distribution <i>via</i> the addition of a small molecular luminescent dye to obtain a high efficiency over 10.5%. <i>Nanoscale</i> , 2018, 10, 16455-16467.	5.6	15
26	Non-fullerene acceptor alloy strategy enabling stable ternary polymer solar cells with efficiency of 17.74%. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3207-3216.	5.5	15
27	Delayed fluorescence material-assisted high performance ternary organic solar cells realized by prolonged exciton lifetime and diffusion length. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17429-17439.	5.5	14
28	Highâ€Efficiency Sequentialâ€Cast Organic Solar Cells Enabled by Dual Solventâ€Controlled Polymer Aggregation. <i>Solar Rrl</i> , 2022, 6, .	5.8	14
29	Highly efficient solution-processed small-molecule white organic light-emitting diodes. <i>Organic Electronics</i> , 2016, 38, 344-349.	2.6	12
30	Highly twisted organic molecules with ortho linkage as the efficient bipolar hosts for sky-blue thermally activated delayed fluorescence emitter in OLEDs. <i>Organic Electronics</i> , 2017, 50, 153-160.	2.6	12
31	A simple and broadly applicable synthesis of fluorene-coupled Dâ€“fâ€“A type molecules: towards high-triplet-energy bipolar hosts for efficient blue thermally-activated delayed fluorescence. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6949-6957.	5.5	12
32	Highly Efficient Orange and Warm White Phosphorescent OLEDs Based on a Host Material with a Carbazoleâ€Fluorenyl Hybrid. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1500-1505.	3.3	11
33	Efficient Exciplexâ€based Green and Nearâ€Infrared Organic Lightâ€Emitting Diodes Employing a Novel Donorâ€Acceptor Type Donor. <i>Chemistry - an Asian Journal</i> , 2020, 15, 4093-4097.	3.3	10
34	Improving the efficiency of exciplex based OLEDs by controlling the different configurations of the donor. <i>Journal of Materials Chemistry C</i> , 2021, 9, 600-608.	5.5	10
35	Morphology optimization of organic solar cells enabled by interface engineering of zinc oxide layer with a conjugated organic material. <i>Organic Electronics</i> , 2021, 91, 106065.	2.6	10
36	Ternary organic solar cells with enhanced charge transfer and stability combining the advantages of polymer acceptors and fullerene acceptors. <i>Organic Electronics</i> , 2022, 104, 106471.	2.6	10

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37	Introducing Trifluoromethyl to Strengthen Hydrogen Bond for High Efficiency Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 190.	3.6	9
38	High-performance organic upconversion device with 12% photon to photon conversion efficiency at 980nm and bio-imaging application in near-infrared region. <i>Optics Express</i> , 2022, 30, 16644.	3.4	9
39	An universal morphology regulator for efficient and stable nonfullerene organic solar cells by π - π interaction. <i>Organic Electronics</i> , 2020, 86, 105827.	2.6	8
40	Deciphering the photocurrent polarity of Bi ₂ O ₂ Se heterojunction phototransistors to enhance detection performance. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	6
41	Improving the performance of solution-processed small molecule OLEDs via micro-aggregation formed by an alcohol additive incorporation. <i>Organic Electronics</i> , 2019, 64, 252-258.	2.6	4
42	Highly efficient white fluorescence/phosphorescence hybrid organic light emitting devices based on an efficient hole-transporting blue emitter. <i>Dyes and Pigments</i> , 2015, 115, 149-153.	3.7	3
43	High performance organic solar cells based on ZnO: POT2T as an effective cathode interfacial layer. <i>Journal of Physics: Conference Series</i> , 2020, 1549, 042015.	0.4	3
44	Hydrogen-bond-induced cathode engineering interface achieving high-efficiency organic solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6358-6364.	5.5	3
45	Near-infrared heterojunction field modulated phototransistors with distinct photodetection/photostorage switching features for artificial visuals. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9198-9207.	5.5	3
46	Pyrene-Imidazole Based Aggregation Modifier Leads to Enhancement in Efficiency and Environmental Stability for Ternary Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2018, 6, 578.	3.6	2
47	Achieving efficient and stable organic solar cells by using polyethylene glycol to modulate the crystallization and distribution of the active layer. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 065502.	2.8	1