

Xiaoyang Du

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,085
citations

361413

20
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434195

31
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48
all docs

48
docs citations

48
times ranked

1191
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | High-Efficiency Sequential-Cast Organic Solar Cells Enabled by Dual Solvent-Controlled Polymer Aggregation. <i>Solar Rrl</i> , 2022, 6, . | 5.8 | 14 |
| 4 | 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 |
| 5 | High-performance organic upconversion device with 12% photon to photon conversion efficiency at 980-nm and bio-imaging application in near-infrared region. <i>Optics Express</i> , 2022, 30, 16644. | 3.4 | 9 |
| 6 | 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 |
| 7 | 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 |
| 8 | Recent Progress in 2D Inorganic/Organic Charge Transfer Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 23 |
| 9 | Layer-by-Layer Solution Processing Method for Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, . | 5.8 | 34 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 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 | Efficient Organic Upconversion Devices for Low Energy Consumption and High-Quality Noninvasive Imaging. <i>Advanced Materials</i> , 2021, 33, e2102812. | 21.0 | 19 |
| 15 | 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 |
| 16 | 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 |
| 17 | Efficient Exciplex-based Green and Near-Infrared Organic Light-Emitting Diodes Employing a Novel Donor-Acceptor Type Donor. <i>Chemistry - an Asian Journal</i> , 2020, 15, 4093-4097. | 3.3 | 10 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Introducing Trifluoromethyl to Strengthen Hydrogen Bond for High Efficiency Organic Solar Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 190. | 3.6 | 9 |
| 22 | 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 |
| 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 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Hydrogen Bonding Strategy to Optimize Charge Distribution of PC ₇₁ BM and Enable a High Efficiency of 12.45% for Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800038. | 5.8 | 22 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | A simple and broadly applicable synthesis of fluorene-coupled D ⁺ 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 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Highly efficient solution-processed small-molecule white organic light-emitting diodes. <i>Organic Electronics</i> , 2016, 38, 344-349. | 2.6 | 12 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Highly Efficient Orange and Warm White Phosphorescent OLEDs Based on a Host Material with a Carbazole-Fluorenyl Hybrid. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1500-1505. | 3.3 | 11 |
| 47 | 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 |