

Xin Song

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,725
citations

304602

22
h-index

526166

27
g-index

28
all docs

28
docs citations

28
times ranked

2390
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling Blend Morphology for Ultrahigh Current Density in Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 669-676.	8.8	242
2	Robust nonfullerene solar cells approaching unity external quantum efficiency enabled by suppression of geminate recombination. <i>Nature Communications</i> , 2018, 9, 2059.	5.8	164
3	PDI Derivative through Fine-Tuning the Molecular Structure for Fullerene-Free Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29924-29931.	4.0	154
4	Additive to regulate the perovskite crystal film growth in planar heterojunction solar cells. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	123
5	Nonfullerene Acceptor for Organic Solar Cells with Chlorination on Dithieno[3,2- <i>b</i> : <i>b'</i> :2,3-dipyrro]pyrrol Fused-Ring. <i>ACS Energy Letters</i> , 2019, 4, 763-770.	8.8	102
6	Process-Aid Solid Engineering Triggers Delicately Modulation of Y-Series Non-Fullerene Acceptor for Efficient Organic Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2200907.	11.1	94
7	Dual Sensitizer and Processing-Aid Behavior of Donor Enables Efficient Ternary Organic Solar Cells. <i>Joule</i> , 2019, 3, 846-857.	11.7	84
8	Thieno[3,4- <i>c</i> : <i>c'</i>]Pyrrole-4,6-dione-Based Polymer Acceptors for High Open-Circuit Voltage All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602574.	10.2	77
9	A Highly Crystalline Fused-Ring n-Type Small Molecule for Non-Fullerene Acceptor Based Organic Solar Cells and Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1802895.	7.8	74
10	Tuning of the conformation of asymmetric nonfullerene acceptors for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22279-22286.	5.2	67
11	The Influence of Solvent Additive on Polymer Solar Cells Employing Fullerene and Non-Fullerene Acceptors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700358.	2.6	59
12	Molecular Orientation Unified Nonfullerene Acceptor Enabling 14% Efficiency As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1903269.	7.8	56
13	Light-induced activation of boron doping in hydrogenated amorphous silicon for over 25% efficiency silicon solar cells. <i>Nature Energy</i> , 2022, 7, 427-437.	19.8	50
14	A Highly Conductive Titanium Oxynitride Electron-Selective Contact for Efficient Photovoltaic Devices. <i>Advanced Materials</i> , 2020, 32, e2002608.	11.1	46
15	Efficient DPP Donor and Nonfullerene Acceptor Organic Solar Cells with High Photon-to-Current Ratio and Low Energetic Loss. <i>Advanced Functional Materials</i> , 2019, 29, 1902441.	7.8	43
16	Investigation of tunable halogen-free solvent engineering on aggregation and miscibility towards high-performance organic solar cells. <i>Nano Energy</i> , 2022, 91, 106678.	8.2	42
17	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. <i>Energy and Environmental Science</i> , 2020, 13, 268-276.	15.6	40
18	Electron-Deficient and Quinoid Central Unit Engineering for Unfused Ring-Based A ₁ -D ₂ -A ₁ Type Acceptor Enables High Performance Nonfullerene Polymer Solar Cells with High <i>V_{oc}</i> and PCE Simultaneously. <i>Small</i> , 2020, 16, e1907681.	5.2	31

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19	Manipulation of Zinc Oxide with Zirconium Doping for Efficient Inverted Organic Solar Cells. <i>Small</i> , 2021, 17, e2006387.	5.2	30
20	A Nonionic Alcohol Soluble Polymer Cathode Interlayer Enables Efficient Organic and Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 8602-8611.	3.2	28
21	Side chain engineering on dithieno[3,2- <i>b</i> :2,3- <i>d</i>]pyrrol fused electron acceptors for efficient organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 702-708.	3.2	24
22	A new NIR absorbing DPP-based polymer for thick organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2957-2961.	2.7	22
23	Fluorination Triggered New Small Molecule Donor Materials for Efficient As-cast Organic Solar Cells. <i>Small</i> , 2018, 14, e1801542.	5.2	22
24	Chloride side-chain engineered quinoxaline-based D-A copolymer enabling non-fullerene organic solar cells with over 16% efficiency. <i>Chemical Engineering Journal</i> , 2022, 437, 135182.	6.6	19
25	Synergistic Interplay between Asymmetric Backbone Conformation, Molecular Aggregation, and Charge-Carrier Dynamics in Fused-Ring Electron Acceptor-Based Bulk Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2961-2970.	4.0	12
26	Zirconium-Doped Zinc Oxide Nanoparticles as Cathode Interfacial Layers for Efficiently Rigid and Flexible Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10616-10621.	2.1	11
27	Efficient as-cast thick film small-molecule organic solar cell with less fluorination on the donor. <i>Materials Chemistry Frontiers</i> , 2020, 4, 206-212.	3.2	9
28	Strategies for high current densities in non-fullerene acceptors based organic solar cells. , 2018, , .		0