

Zhenghui Luo

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

3,698
citations

279798

23
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

2043
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine-Tuning Energy Levels via Asymmetric End Groups Enables Polymer Solar Cells with Efficiencies over 17%. <i>Joule</i> , 2020, 4, 1236-1247.	24.0	344
2	Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. <i>Science China Chemistry</i> , 2020, 63, 325-330.	8.2	292
3	A Layer-by-Layer Architecture for Printable Organic Solar Cells Overcoming the Scaling Lag of Module Efficiency. <i>Joule</i> , 2020, 4, 407-419.	24.0	272
4	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. <i>Energy and Environmental Science</i> , 2018, 11, 3275-3282.	30.8	261
5	Fine-tuning of Molecular Packing and Energy Level through Methyl Substitution Enabling Excellent Small Molecule Acceptors for Nonfullerene Polymer Solar Cells with Efficiency up to 12.54%. <i>Advanced Materials</i> , 2018, 30, 1706124.	21.0	253
6	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. <i>Energy and Environmental Science</i> , 2019, 12, 2529-2536.	30.8	213
7	A Novel Thiophene-Fused Ending Group Enabling an Excellent Small Molecule Acceptor for High-Performance Fullerene-Free Polymer Solar Cells with 11.8% Efficiency. <i>Solar Rrl</i> , 2017, 1, 1700044.	5.8	198
8	Simultaneous enhanced efficiency and thermal stability in organic solar cells from a polymer acceptor additive. <i>Nature Communications</i> , 2020, 11, 1218.	12.8	197
9	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2711-2720.	17.4	188
10	Concurrent improvement in J_{SC} and V_{OC} in high-efficiency ternary organic solar cells enabled by a red-absorbing small-molecule acceptor with a high LUMO level. <i>Energy and Environmental Science</i> , 2020, 13, 2115-2123.	30.8	164
11	Asymmetric Acceptors with Fluorine and Chlorine Substitution for Organic Solar Cells toward 16.83% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 2000456.	14.9	164
12	Fine-tuning of side-chain orientations on nonfullerene acceptors enables organic solar cells with 17.7% efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 3469-3479.	30.8	158
13	Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2% Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10137-10146.	13.8	145
14	Altering alkyl-chains branching positions for boosting the performance of small-molecule acceptors for highly efficient nonfullerene organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 361-369.	8.2	128
15	High-Efficiency Ternary Organic Solar Cells with a Good Figure-of-Merit Enabled by Two Low-Cost Donor Polymers. <i>ACS Energy Letters</i> , 2022, 7, 2547-2556.	17.4	109
16	Rational Anode Engineering Enables Progresses for Different Types of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2100492.	19.5	108
17	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables High-Performance Acceptor and Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002649.	19.5	103
18	Fluorinated End Group Enables High-Performance All-Polymer Solar Cells with Near-Infrared Absorption and Enhanced Device Efficiency over 14%. <i>Advanced Energy Materials</i> , 2021, 11, 2003171.	19.5	89

#	ARTICLE	IF	CITATIONS
19	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. <i>Aggregate</i> , 2022, 3, e58.	9.9	85
20	Isomerization Strategy of Nonfullerene Small-Molecule Acceptors for Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2004477.	14.9	58
21	A compatible polymer acceptor enables efficient and stable organic solar cells as a solid additive. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17706-17712.	10.3	51
22	Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 909-915.	5.5	47
23	Improved organic solar cell efficiency based on the regulation of an alkyl chain on chlorinated non-fullerene acceptors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2428-2434.	5.9	27
24	Boosting Highly Efficient Hydrocarbon Solvent-Processed All-Polymer-Based Organic Solar Cells by Modulating Thin-Film Morphology. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34301-34307.	8.0	20
25	Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for All-Polymer Solar Cells with 15.2% Efficiency. <i>Angewandte Chemie</i> , 2021, 133, 10225-10234.	2.0	13
26	Optimizing spectral and morphological match of nonfullerene acceptors toward efficient indoor organic photovoltaics with enhanced light source adaptability. <i>Nano Energy</i> , 2022, 98, 107281.	16.0	11