

Single-junction organic solar cells with over 19% efficiency double-fibril network morphology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Identifying structure–absorption relationships and predicting absorption strength of non-fullerene acceptors for organic photovoltaics. <i>Energy and Environmental Science</i> , 2022, 15, 2958-2973.	15.6	22
2	High efficiency and more functions bring a bright future for organic photovoltaic cells. <i>Science Bulletin</i> , 2022, 67, 1300-1303.	4.3	8
3	Single-junction organic solar cell smashes performance record. <i>Science China Materials</i> , 2022, 65, 2609-2610.	3.5	2
4	High-efficiency single-junction organic solar cells enabled by double-fibril network morphology. <i>Science Bulletin</i> , 2022, 67, 1310-1312.	4.3	5
5	Highly efficient ternary solar cells with reduced non-radiative energy loss and enhanced stability via two compatible non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15605-15613.	5.2	19
6	Realizing the efficiency-stability balance for all-polymer photovoltaic blends. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9723-9729.	2.7	12
7	Polystyrene–sulfonate–doped polypyrrole: Low-cost hole transport material for developing highly efficient organic solar cells. <i>International Journal of Energy Research</i> , 2022, 46, 15396-15406.	2.2	2
8	Binary Organic Solar Cells Breaking 19% via Manipulating the Vertical Component Distribution. <i>Advanced Materials</i> , 2022, 34, .	11.1	384
9	Binary Blend All-Polymer Solar Cells with a Record Efficiency of 17.41% Enabled by Programmed Fluorination Both on Donor and Acceptor Blocks. <i>Advanced Science</i> , 2022, 9, .	5.6	45
10	Recent Progress in 2D Inorganic/Organic Charge Transfer Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	23
11	Hammer throw-liked hybrid cyclic and alkyl chains: A new side chain engineering for over 18 % efficiency organic solar cells. <i>Nano Energy</i> , 2022, 101, 107538.	8.2	27
12	Comparative study on thermally evaporated and solution processed cathode modifying layers in organic solar cells. <i>EPJ Applied Physics</i> , 0, , .	0.3	2
13	Modulating the nanoscale morphology on carboxylate-pyrazine containing terpolymer toward 17.8% efficiency organic solar cells with enhanced thermal stability. <i>Chemical Engineering Journal</i> , 2022, 446, 137424.	6.6	14
14	Peripheral halogenation engineering controls molecular stacking to enable highly efficient organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 3519-3533.	15.6	66
15	Multi-site functional cathode interlayers for high-performance binary organic solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 16163-16170.	5.2	15
16	A novel A–DA–A bifunctional small molecule for organic solar cell applications with impressive photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 16497-16505.	5.2	2
17	An electron acceptor featuring a B–N covalent bond and small singlet–triplet gap for organic solar cells. <i>Chemical Communications</i> , 2022, 58, 8686-8689.	2.2	18
18	Spontaneous carrier generation and low recombination in high-efficiency non-fullerene solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 3483-3493.	15.6	23

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19	The structure-performance correlation of bulk-heterojunction organic solar cells with multi-length-scale morphology. <i>Science China Chemistry</i> , 2022, 65, 1634-1641.	4.2	5
20	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.	8.8	109
21	Achieving over 18% Efficiency Organic Solar Cell Enabled by a ZnO-Based Hybrid Electron Transport Layer with an Operational Lifetime up to 5 Years. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
22	Molecular Insights of Nonfused Ring Acceptors for High-Performance Nonfullerene Organic Solar Cells. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	22
23	Fine-Tuned Morphology Based on Two Well-Miscible Polymer Donors Enables Higher Open-Circuit Voltage and Enhanced Stability for Highly Efficient Ternary All-Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	2
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26	A New Polymer Donor Enables Binary All-Polymer Organic Photovoltaic Cells with 18% Efficiency and Excellent Mechanical Robustness. <i>Advanced Materials</i> , 2022, 34, .	11.1	150
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128	Wide Bandgap Polymer Donors Functionalized with Unconventional Carbamate Side Chains for Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	19
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