

Self-Assembled Monolayer Enables Hole Transport Layer Efficiency and Improved Operational Stability

ACS Energy Letters

5, 2935-2944

DOI: [10.1021/acsenergylett.0c01421](https://doi.org/10.1021/acsenergylett.0c01421)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Long-range exciton diffusion in molecular non-fullerene acceptors. <i>Nature Communications</i> , 2020, 11, 5220.	5.8	204
2	Enhancing the photovoltaic performance of heteroheptacene-based nonfullerene acceptors through the synergistic effect of side-chain engineering and fluorination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24543-24552.	5.2	19
3	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. <i>ACS Energy Letters</i> , 2020, 5, 3692-3701.	8.8	15
4	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. <i>ACS Energy Letters</i> , 2020, 5, 3663-3671.	8.8	253
5	Preaggregation Matching of Donors and Acceptors in Solution Accounting for Thermally Stable Non-Fullerene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58082-58093.	4.0	12
6	Preparation of non-fullerene acceptors with a multi-asymmetric configuration in a one-pot reaction for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17229-17236.	2.7	23
7	Recent advances in stability of organic solar cells. <i>EnergyChem</i> , 2021, 3, 100046.	10.1	50
8	Visible Light-Induced Degradation of Inverted Polymer:Nonfullerene Acceptor Solar Cells: Initiated by the Light Absorption of ZnO Layer. <i>Solar Rrl</i> , 2021, 5, .	3.1	45
9	Constructing a new polymer acceptor enabled non-halogenated solvent-processed all-polymer solar cell with an efficiency of 13.8%. <i>Chemical Communications</i> , 2021, 57, 935-938.	2.2	36
10	14.55% efficiency PBDB-T ternary organic solar cells enabled by two alloy-forming acceptors featuring distinct structural orders. <i>Chemical Engineering Journal</i> , 2021, 413, 127444.	6.6	12
11	Designing high performance conjugated materials for photovoltaic cells with the aid of intramolecular noncovalent interactions. <i>Chemical Communications</i> , 2021, 57, 302-314.	2.2	65
12	Semitransparent polymer solar cells floating on water: selected transmission windows and active control of algal growth. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13132-13143.	2.7	8
13	Perfluorinated ionomer and poly(3,4-ethylenedioxythiophene) colloid as a hole transporting layer for optoelectronic devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17967-17977.	5.2	8
14	Organic photovoltaics with 300 nm thick ternary active layers exhibiting 15.6% efficiency. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9892-9898.	2.7	43
15	Rational compatibility in a ternary matrix enables all-small-molecule organic solar cells with over 16% efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 3945-3953.	15.6	124
16	Techniques to Facilitate 3D Analysis of Self-Organized Nanostructure Mechanism in Polymer/Fullerene Bulk Heterojunction Device. <i>Advanced Materials Technologies</i> , 2021, 6, 2000999.	3.0	0
17	Top transparent electrodes for fabricating semitransparent organic and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9102-9123.	2.7	17
18	Hydrophobic AlO _x Surfaces by Adsorption of a SAM on Large Areas for Application in Solar Cell Metallization Patterning. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5803-5813.	4.0	14

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19	An isomerized alkyl side chain enables efficient nonfullerene organic photovoltaics with good tolerance to pre/post-treatments. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3050-3060.	3.2	20
20	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.	15.6	158
21	Accelerating organic solar cell material's discovery: high-throughput screening and <i>big data</i> . <i>Energy and Environmental Science</i> , 2021, 14, 3301-3322.	15.6	51
22	Bathocuproine as a cathode interlayer for nonfullerene organic solar cells with efficiency over 17%. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23269-23275.	5.2	11
23	Comparative degradation analysis of V_2O_5 , MoO_3 and their stacks as hole transport layers in high-efficiency inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6518-6527.	2.7	18
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25	Effect of Light Irradiation on the Diffusion Rate of the Charge Carrier Hopping Mechanism in P3HT:ZnO Nanoparticles Studied by ^{14}C SR. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
26	Unveiling the crystalline packing of Y6 in thin films by thermally induced "backbone-on" orientation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17030-17038.	5.2	22
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43	Progress in Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100041.	3.1	44
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45	The Role of Silver Nanoparticles in the Hole Transport Layer in Organic Solar Cells Based on PBDB-T:ITIC. <i>Journal of Electronic Materials</i> , 2021, 50, 4118-4127.	1.0	8
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71	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021, 133, 16124-16130.	1.6	11
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74	p-Type Polymers for Templated Crystallization of Perovskite Films and Interface Optimization for High Performance Solar Cells. <i>Crystals</i> , 2021, 11, 654.	1.0	0
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91	A Well-Mixed Phase Formed by Two Compatible Non-Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6%. <i>Advanced Materials</i> , 2021, 33, e2101733.	11.1	354
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133	Ester side chains engineered quinoxaline based D-A copolymers for high-efficiency all-polymer solar cells. <i>Chemical Engineering Journal</i> , 2022, 429, 132551.	6.6	16
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