

Baobing Fan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28 papers	2,666 citations	18 h-index	29 g-index
29 ext. papers	3,091 ext. citations	16.9 avg, IF	5.39 L-index

#	Paper	IF	Citations
28	Achieving over 16% efficiency for single-junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 746-752	7.9	723
27	Optimisation of processing solvent and molecular weight for the production of green-solvent-processed all-polymer solar cells with a power conversion efficiency over 9%. <i>Energy and Environmental Science</i> , 2017 , 10, 1243-1251	35.4	307
26	All-Polymer Solar Cells Based on a Conjugated Polymer Containing Siloxane-Functionalized Side Chains with Efficiency over 10. <i>Advanced Materials</i> , 2017 , 29, 1703906	24	294
25	Fine-tuning of the chemical structure of photoactive materials for highly efficient organic photovoltaics. <i>Nature Energy</i> , 2018 , 3, 1051-1058	62.3	235
24	A high dielectric constant non-fullerene acceptor for efficient bulk-heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 395-403	13	173
23	High-Performance Nonfullerene Polymer Solar Cells based on Imide-Functionalized Wide-Bandgap Polymers. <i>Advanced Materials</i> , 2017 , 29, 1606396	24	135
22	A Universal Fluorinated Polymer Acceptor Enables All-Polymer Solar Cells with >15% Efficiency. <i>ACS Energy Letters</i> , 2020 , 5, 3702-3707	20.1	98
21	High-Performance Thick-Film All-Polymer Solar Cells Created Via Ternary Blending of a Novel Wide-Bandgap Electron-Donating Copolymer. <i>Advanced Energy Materials</i> , 2018 , 8, 1703085	21.8	97
20	Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. <i>Nature Communications</i> , 2019 , 10, 4100	17.4	96
19	11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. <i>Advanced Materials</i> , 2018 , 30, e1803166	24	78
18	Tailoring Regioisomeric Structures of Conjugated Polymers Containing Monofluorinated Bridges for Highly Efficient Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2087-2094	20.1	63
17	Enhanced Photovoltaic Performance of Ternary Polymer Solar Cells by Incorporation of a Narrow-Bandgap Nonfullerene Acceptor. <i>Chemistry of Materials</i> , 2017 , 29, 8177-8186	9.6	58
16	Molecular packing control enables excellent performance and mechanical property of blade-cast all-polymer solar cells. <i>Nano Energy</i> , 2019 , 59, 277-284	17.1	39
15	Dark Current Reduction Strategy via a Layer-By-Layer Solution Process for a High-Performance All-Polymer Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8350-8356	9.5	36
14	Side-chain modification of polyethylene glycol on conjugated polymers for ternary blend all-polymer solar cells with efficiency up to 9.27%. <i>Science China Chemistry</i> , 2018 , 61, 427-436	7.9	36
13	Regioisomeric Non-Fullerene Acceptors Containing Fluorobenzo[c][1,2,5]thiadiazole Unit for Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37087-37093	9.5	29
12	High-Performance Green Solvent Processed Ternary Blended All-Polymer Solar Cells Enabled by Complementary Absorption and Improved Morphology. <i>Solar Rrl</i> , 2018 , 2, 1800196	7.1	21

11	Improved Efficiency of Polymer Solar Cells by Modifying the Side Chain of Wide-Band Gap Conjugated Polymers Containing Pyrrolo[3,4- f]benzotriazole-5,7(6 H)-dione Moiety. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22495-22503	9.5	19
10	Enabling High Efficiency of Hydrocarbon-Solvent Processed Organic Solar Cells through Balanced Charge Generation and Non-Radiative Loss. <i>Advanced Energy Materials</i> , 2021 , 11, 2101768	21.8	18
9	Recent progress in thick-film organic photovoltaic devices: Materials, devices, and processing. <i>SusMat</i> , 2021 , 1, 4-23		18
8	Asymmetric Alkyl Side-Chain Engineering of Naphthalene Diimide-Based n-Type Polymers for Efficient All-Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700765	4.8	17
7	Near-infrared absorbing polymer acceptors enabled by selenophene-fused core and halogenated end-group for binary all-polymer solar cells with efficiency over 16%. <i>Nano Energy</i> , 2022 , 92, 106718	17.1	15
6	Asymmetric Isomer Effects in Benzo[c][1,2,5]thiadiazole-Fused Nonacyclic Acceptors: Dielectric Constant and Molecular Crystallinity Control for Significant Photovoltaic Performance Enhancement. <i>Advanced Functional Materials</i> , 2021 , 31, 2104369	15.6	15
5	Recent Progress in All-Polymer Solar Cells Based on Wide-Bandgap p-Type Polymers. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3109-3118	4.5	13
4	Formation of Vitriified Solid Solution Enables Simultaneously Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 3522-3529	20.1	9
3	Non-fullerene acceptors end-capped with an extended conjugation group for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 59, 366-373	3.5	7
2	Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 2196-2202	20.1	5
1	Flexibility of Room-Temperature-Synthesized Amorphous CdO-InO Alloy Films and Their Application as Transparent Conductors in Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43795-43805	9.5	1