

Baobing Fan

List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|-----------------|-----------------|
| 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 | 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 |
| 27 | 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 |
| 26 | Recent progress in thick-film organic photovoltaic devices: Materials, devices, and processing. <i>SusMat</i> , 2021 , 1, 4-23 | | 18 |
| 25 | 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 |
| 24 | 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 |
| 23 | Tailoring Regioisomeric Structures of π -Conjugated Polymers Containing Monofluorinated π -Bridges for Highly Efficient Polymer Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2087-2094 | 20.1 | 63 |
| 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 | Surpassing the 10% efficiency milestone for 1-cm all-polymer solar cells. <i>Nature Communications</i> , 2019 , 10, 4100 | 17.4 | 96 |
| 20 | 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 |
| 19 | Achieving over 16% efficiency for single-junction organic solar cells. <i>Science China Chemistry</i> , 2019 , 62, 746-752 | 7.9 | 723 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | Improved Efficiency of Polymer Solar Cells by Modifying the Side Chain of Wide-Band Gap Conjugated Polymers Containing Pyrrolo[3,4- <i>f</i>]benzotriazole-5,7(6 <i>H</i>)-dione Moiety. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22495-22503 | 9.5 | 19 |
| 12 | 11.2% All-Polymer Tandem Solar Cells with Simultaneously Improved Efficiency and Stability. <i>Advanced Materials</i> , 2018 , 30, e1803166 | 24 | 78 |

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| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | High-Performance Nonfullerene Polymer Solar Cells based on Imide-Functionalized Wide-Bandgap Polymers. <i>Advanced Materials</i> , 2017 , 29, 1606396 | 24 | 135 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | Formation of Vitrified Solid Solution Enables Simultaneously Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 3522-3529 | 20.1 | 9 |
| 1 | Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. <i>ACS Energy Letters</i> , 2196-2202 | 20.1 | 5 |