# Jingbo Zhao

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 29 papers | 10,269 citations | 26 h-index | 30 g-index |
| 30 ext. papers | 11,115 ext. citations | 24.6 avg, IF | 6.13 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 29 | The Critical Impact of Material and Process Compatibility on the Active Layer Morphology and Performance of Organic Ternary Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1802293 | 21.8 | 28 |
| 28 | Quantitative relations between interaction parameter, miscibility and function in organic solar cells. *Nature Materials*, **2018**, 17, 253-260 | 27 | 409 |
| 27 | Miscibility–Function Relations in Organic Solar Cells: Significance of Optimal Miscibility in Relation to Percolation. *Advanced Energy Materials*, **2018**, 8, 1703058 | 21.8 | 175 |
| 26 | Integrated circuits based on conjugated polymer monolayer. *Nature Communications*, **2018**, 9, 451 | 17.4 | 50 |
| 25 | Nonfullerene Acceptor Molecules for Bulk Heterojunction Organic Solar Cells. *Chemical Reviews*, **2018**, 118, 3447-3507 | 68.1 | 1051 |
| 24 | A Facile Method to Fine-Tune Polymer Aggregation Properties and Blend Morphology of Polymer Solar Cells Using Donor Polymers with Randomly Distributed Alkyl Chains. *Advanced Energy Materials*, **2018**, 8, 1701895 | 21.8 | 52 |
| 23 | An Electron Acceptor with Broad Visible–NIR Absorption and Unique Solid State Packing for As-Cast High Performance Binary Organic Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1802324 | 15.6 | 99 |
| 22 | Efficient Nonfullerene Organic Solar Cells with Small Driving Forces for Both Hole and Electron Transfer. *Advanced Materials*, **2018**, 30, e1804215 | 24 | 116 |
| 21 | Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. *Journal of Materials Chemistry A*, **2017**, 5, 4886-4893 | 13 | 41 |
| 20 | Improved Performance of All-Polymer Solar Cells Enabled by Naphthodiperylenetetraimide-Based Polymer Acceptor. *Advanced Materials*, **2017**, 29, 1700309 | 24 | 245 |
| 19 | Fast charge separation in a non-fullerene organic solar cell with a small driving force. *Nature Energy*, **2016**, 1, | 62.3 | 967 |
| 18 | Donor polymer design enables efficient non-fullerene organic solar cells. *Nature Communications*, **2016**, 7, 13094 | 17.4 | 298 |
| 17 | Efficient organic solar cells processed from hydrocarbon solvents. *Nature Energy*, **2016**, 1, | 62.3 | 1876 |
| 16 | A Difluorobenzoxadiazole Building Block for Efficient Polymer Solar Cells. *Advanced Materials*, **2016**, 28, 1868-73 | 24 | 118 |
| 15 | A Vinylene-Bridged Perylenediimide-Based Polymeric Acceptor Enabling Efficient All-Polymer Solar Cells Processed under Ambient Conditions. *Advanced Materials*, **2016**, 28, 8483-8489 | 24 | 190 |
| 14 | Terthiophene-based D-A polymer with an asymmetric arrangement of alkyl chains that enables efficient polymer solar cells. *Journal of the American Chemical Society*, **2015**, 137, 14149-57 | 16.4 | 358 |
| 13 | The influence of spacer units on molecular properties and solar cell performance of non-fullerene acceptors. *Journal of Materials Chemistry A*, **2015**, 3, 20108-20112 | 13 | 36 |

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| 12 | Isobenzofulvene-fullerene mono-adducts for organic photovoltaic applications. *Journal of Materials Chemistry C*, **2015**, 3, 977-980 | 7.1 | 10 |
| 11 | A tetraphenylethylene core-based 3D structure small molecular acceptor enabling efficient non-fullerene organic solar cells. *Advanced Materials*, **2015**, 27, 1015-20 | 24 | 334 |
| 10 | High-efficiency non-fullerene organic solar cells enabled by a difluorobenzothiadiazole-based donor polymer combined with a properly matched small molecule acceptor. *Energy and Environmental Science*, **2015**, 8, 520-525 | 35.4 | 350 |
| 9 | Organic Solar Cells: Influence of Processing Parameters and Molecular Weight on the Morphology and Properties of High-Performance PffBT4T-2OD:PC71BM Organic Solar Cells (Adv. Energy Mater. 23/2015). *Advanced Energy Materials*, **2015**, 5, n/a-n/a | 21.8 | 3 |
| 8 | Influence of Processing Parameters and Molecular Weight on the Morphology and Properties of High-Performance PffBT4T-2OD:PC71BM Organic Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1501400 | 21.8 | 149 |
| 7 | High-Performance Non-Fullerene Polymer Solar Cells Based on a Pair of Donor-Acceptor Materials with Complementary Absorption Properties. *Advanced Materials*, **2015**, 27, 7299-304 | 24 | 219 |
| 6 | Efficient Low-Bandgap Polymer Solar Cells with High Open-Circuit Voltage and Good Stability. *Advanced Energy Materials*, **2015**, 5, 1501282 | 21.8 | 73 |
| 5 | Efficient non-fullerene polymer solar cells enabled by tetrahedron-shaped core based 3D-structure small-molecular electron acceptors. *Journal of Materials Chemistry A*, **2015**, 3, 13632-13636 | 13 | 92 |
| 4 | Dramatic performance enhancement for large bandgap thick-film polymer solar cells introduced by a difluorinated donor unit. *Nano Energy*, **2015**, 15, 607-615 | 17.1 | 89 |
| 3 | Organic Solar Cells: A Tetraphenylethylene Core-Based 3D Structure Small Molecular Acceptor Enabling Efficient Non-Fullerene Organic Solar Cells (Adv. Mater. 6/2015). *Advanced Materials*, **2015**, 27, 1014-1014 | 24 | 8 |
| 2 | High-efficiency all-polymer solar cells based on a pair of crystalline low-bandgap polymers. *Advanced Materials*, **2014**, 26, 7224-30 | 24 | 218 |
| 1 | Aggregation and morphology control enables multiple cases of high-efficiency polymer solar cells. *Nature Communications*, **2014**, 5, 5293 | 17.4 | 2609 |