

# Zhikai He

## List of Publications by Citations

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28  
papers

7,923  
citations

14  
h-index

31  
g-index

31  
ext. papers

8,436  
ext. citations

13.4  
avg, IF

5.91  
L-index

#	Paper	IF	Citations
28	Enhanced power-conversion efficiency in polymer solar cells using an inverted device structure. <i>Nature Photonics</i> , <b>2012</b> , 6, 591-595	33.9	3384
27	Simultaneous enhancement of open-circuit voltage, short-circuit current density, and fill factor in polymer solar cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 4636-43	24	1860
26	Single-junction polymer solar cells with high efficiency and photovoltage. <i>Nature Photonics</i> , <b>2015</b> , 9, 174-179	33.9	1495
25	High-efficiency organic solar cells with low non-radiative recombination loss and low energetic disorder. <i>Nature Photonics</i> , <b>2020</b> , 14, 300-305	33.9	432
24	Largely enhanced efficiency with a PFN/Al bilayer cathode in high efficiency bulk heterojunction photovoltaic cells with a low bandgap polycarbazole donor. <i>Advanced Materials</i> , <b>2011</b> , 23, 3086-9	24	221
23	High-efficiency ITO-free polymer solar cells using highly conductive PEDOT:PSS/surfactant bilayer transparent anodes. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1956	35.4	188
22	Dopamine Semiquinone Radical Doped PEDOT:PSS: Enhanced Conductivity, Work Function and Performance in Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000743	21.8	52
21	High-Performance Fullerene-Free Polymer Solar Cells Featuring Efficient Photocurrent Generation from Dual Pathways and Low Nonradiative Recombination Loss. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 8-16	20.1	49
20	Efficiency enhancement in solution-processed organic small molecule: Fullerene solar cells via solvent vapor annealing. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 183302	3.4	47
19	Optimizing the conjugated side chains of quinoxaline based polymers for nonfullerene solar cells with 10.5% efficiency. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3074-3083	13	46
18	3,4-Dicyanothiophene—Versatile Building Block for Efficient Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904247	21.8	35
17	A donor polymer based on 3-cyanothiophene with superior batch-to-batch reproducibility for high-efficiency organic solar cells. <i>Energy and Environmental Science</i> ,	35.4	21
16	Dibenzothiophene-S,S-dioxide and Bispyridinium-Based Cationic Polyfluorene Derivative as an Efficient Cathode Modifier for Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4778-4787	9.5	19
15	Influence of the acceptor crystallinity on the open-circuit voltage in PTB7-Th: ITIC organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14861-14866	7.1	16
14	Molecular Engineering on Bis(benzothiophene-, -dioxide)-Based Large-Band Gap Polymers for Interfacial Modifications in Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45969-45978	9.5	9
13	Formation Mechanism of PFN Dipole Interlayer in Organic Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000753	7.1	9
12	Indacenodifuran-Based Non-Fullerene Electron Acceptors for Efficient Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6133-6138	6.1	7

11	Water- and alcohol-soluble cationic phenanthroline derivatives as efficient cathode interfacial layers for bulk-heterojunction polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4858-4866	7.1	6
10	Pyridine-incorporated alcohol-soluble neutral polyfluorene derivatives as efficient cathode-modifying layers for polymer solar cells. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 6720-6732	4.9	6
9	An environmentally friendly natural polymer as a universal interfacial modifier for fullerene and non-fullerene polymer solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1234-1241	5.8	6
8	Efficient Interface Engineering Enhances Photovoltaic Performance of a Bulk-Heterojunction PCDTBT:PC71BM System. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 1258-1265	3.7	5
7	High-quality WS film as a hole transport layer in high-efficiency non-fullerene organic solar cells. <i>Nanoscale</i> , <b>2021</b> , 13, 16589-16597	7.7	2
6	The role of balanced dual charge generation pathways in ternary organic solar cells. <i>Journal of Materials Chemistry C</i> ,	7.1	2
5	Organic photodetectors with high detectivity for broadband detection covering UV-vis-NIR. <i>Journal of Materials Chemistry C</i> ,	7.1	2
4	Trifluoromethyl-Substituted Large Band-Gap Polytriphenylamines for Polymer Solar Cells with High Open-Circuit Voltages. <i>Polymers</i> , <b>2018</b> , 10,	4.5	1
3	Origin of the Additive-Induced V Change in Non-Fullerene Organic Solar Cells.. <i>Small</i> , <b>2022</b> , e2107106	11	1
2	Molecular Engineering Enhances the Charge Carriers Transport in Wide Band-Gap Polymer Donors Based Polymer Solar Cells. <i>Molecules</i> , <b>2020</b> , 25,	4.8	1
1	Mechanism of the Alcohol-Soluble Ionic Organic Interlayer in Organic Solar Cells. <i>Langmuir</i> , <b>2021</b> , 37, 4347-4354	4	1