

# Hu, Huawei

## List of Publications by Year in descending order

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43  
papers

7,725  
citations

136885

32  
h-index

254106

43  
g-index

45  
all docs

45  
docs citations

45  
times ranked

6043  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregation and morphology control enables multiple cases of high-efficiency polymer solar cells. <i>Nature Communications</i> , 2014, 5, 5293.	5.8	2,854
2	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , 2018, 17, 253-260.	13.3	556
3	Terthiophene-Based A Polymer with an Asymmetric Arrangement of Alkyl Chains That Enables Efficient Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 14149-14157.	6.6	386
4	High-efficiency non-fullerene organic solar cells enabled by a difluorobenzothiadiazole-based donor polymer combined with a properly matched small molecule acceptor. <i>Energy and Environmental Science</i> , 2015, 8, 520-525.	15.6	379
5	A Tetraphenylethylene Core-Based 3D Structure Small Molecular Acceptor Enabling Efficient Non-Fullerene Organic Solar Cells. <i>Advanced Materials</i> , 2015, 27, 1015-1020.	11.1	362
6	Ring-Fusion of Perylene Diimide Acceptor Enabling Efficient Nonfullerene Organic Solar Cells with a Small Voltage Loss. <i>Journal of the American Chemical Society</i> , 2017, 139, 16092-16095.	6.6	304
7	High-Performance Non-Fullerene Polymer Solar Cells Based on a Pair of Donor-Acceptor Materials with Complementary Absorption Properties. <i>Advanced Materials</i> , 2015, 27, 7299-7304.	11.1	230
8	Design of Donor Polymers with Strong Temperature-Dependent Aggregation Property for Efficient Organic Photovoltaics. <i>Accounts of Chemical Research</i> , 2017, 50, 2519-2528.	7.6	222
9	A molecular interaction-diffusion framework for predicting organic solar cell stability. <i>Nature Materials</i> , 2021, 20, 525-532.	13.3	212
10	Efficient All-Polymer Solar Cells based on a New Polymer Acceptor Achieving 10.3% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 417-422.	8.8	196
11	Reduced Intramolecular Twisting Improves the Performance of 3D Molecular Acceptors in Non-Fullerene Organic Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8546-8551.	11.1	161
12	Stretchable transistors and functional circuits for human-integrated electronics. <i>Nature Electronics</i> , 2021, 4, 17-29.	13.1	153
13	Delineation of Thermodynamic and Kinetic Factors that Control Stability in Non-fullerene Organic Solar Cells. <i>Joule</i> , 2019, 3, 1328-1348.	11.7	143
14	Multiple Cases of Efficient Nonfullerene Ternary Organic Solar Cells Enabled by an Effective Morphology Control Method. <i>Advanced Energy Materials</i> , 2018, 8, 1701370.	10.2	140
15	Alkyl-Chain Branching of Non-Fullerene Acceptors Flanking Conjugated Side Groups toward Highly Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2102596.	10.2	125
16	Efficient non-fullerene polymer solar cells enabled by tetrahedron-shaped core based 3D-structure small-molecular electron acceptors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13632-13636.	5.2	100
17	Modulation of End Groups for Low-Bandgap Nonfullerene Acceptors Enabling High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801203.	10.2	99
18	Dramatic performance enhancement for large bandgap thick-film polymer solar cells introduced by a difluorinated donor unit. <i>Nano Energy</i> , 2015, 15, 607-615.	8.2	93

#	ARTICLE	IF	CITATIONS
19	CsPbBr <sub>3</sub> perovskite nanocrystals as highly selective and sensitive spectrochemical probes for gaseous HCl detection. <i>Journal of Materials Chemistry C</i> , 2017, 5, 309-313.	2.7	89
20	Highly Efficient, Stable, and Ductile Ternary Nonfullerene Organic Solar Cells from a Two-Donor Polymer Blend. <i>Advanced Materials</i> , 2019, 31, e1808279.	11.1	79
21	Efficient Low-Bandgap Polymer Solar Cells with High Open-Circuit Voltage and Good Stability. <i>Advanced Energy Materials</i> , 2015, 5, 1501282.	10.2	76
22	Effect of Ring-Fusion on Miscibility and Domain Purity: Key Factors Determining the Performance of PDI-Based Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800234.	10.2	75
23	The Role of Demixing and Crystallization Kinetics on the Stability of Non-Fullerene Organic Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2005348.	11.1	74
24	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. <i>Advanced Energy Materials</i> , 2019, 9, 1901077.	10.2	69
25	A Facile Method to Fine-Tune Polymer Aggregation Properties and Blend Morphology of Polymer Solar Cells Using Donor Polymers with Randomly Distributed Alkyl Chains. <i>Advanced Energy Materials</i> , 2018, 8, 1701895.	10.2	62
26	Influence of Donor Polymer on the Molecular Ordering of Small Molecular Acceptors in Nonfullerene Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701674.	10.2	60
27	Gaining further insight into the effects of thermal annealing and solvent vapor annealing on time morphological development and degradation in small molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18101-18110.	5.2	50
28	Temperature-Dependent Aggregation Donor Polymers Enable Highly Efficient Sequentially Processed Organic Photovoltaics Without the Need of Orthogonal Solvents. <i>Advanced Functional Materials</i> , 2019, 29, 1902478.	7.8	50
29	Stretchable Redox-Active Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2022, 34, e2201178.	11.1	50
30	Chlorinated Thiophene End Groups for Highly Crystalline Alkylated Non-Fullerene Acceptors toward Efficient Organic Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 6672-6676.	3.2	48
31	Determination of the movement and persistence of Cry1Ab/1Ac protein released from Bt transgenic rice under field and hydroponic conditions. <i>Soil Biology and Biochemistry</i> , 2013, 58, 107-114.	4.2	39
32	Influence of fluorination on the properties and performance of isoindigo-“quaterthiophene-based polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5039-5043.	5.2	35
33	Intramolecular $\pi$ -stacked perylene-diimide acceptors for non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8136-8143.	5.2	34
34	A decacyclic indacenodithiophene-based non-fullerene electron acceptor with meta-alkyl-phenyl substitutions for polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4063-4071.	5.2	17
35	Henry reaction of fluorinated nitro compounds. <i>Journal of Fluorine Chemistry</i> , 2012, 133, 108-114.	0.9	16
36	Donor polymer based on alkylthiophene side chains for efficient non-fullerene organic solar cells: insights into fluorination and side chain effects on polymer aggregation and blend morphology. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23270-23277.	5.2	16

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37	Carboxylate substitution position influencing polymer properties and enabling non-fullerene organic solar cells with high open circuit voltage and low voltage loss. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16874-16881.	5.2	15
38	Radical Addition of Perfluoroalkyl Iodides to Alkenes and Alkynes Initiated by Sodium Dithionite in an Aqueous Solution in the Presence of a Novel Fluorosurfactant. <i>Chinese Journal of Chemistry</i> , 2013, 31, 939-944.	2.6	13
39	A Donor Polymer Based on a Difluorinated Pentathiophene Unit Enabling Enhanced Performance for Nonfullerene Organic Solar Cells. <i>Small Methods</i> , 2018, 2, 1700415.	4.6	13
40	A random donor polymer based on an asymmetric building block to tune the morphology of non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22480-22488.	5.2	12
41	Organic Solar Cells: A Tetraphenylethylene Core-Based 3D Structure Small Molecular Acceptor Enabling Efficient Non-Fullerene Organic Solar Cells ( <i>Adv. Mater.</i> 6/2015). <i>Advanced Materials</i> , 2015, 27, 1014-1014.	11.1	9
42	Michael Addition Reaction of Fluorinated Nitro Compounds. <i>Chinese Journal of Chemistry</i> , 2012, 30, 798-802.	2.6	6
43	Low Voltage-Loss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. <i>Solar Rrl</i> , 2022, 6, .	3.1	3