

# Yunpeng Qin

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

4,142  
citations

218677

26  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

3517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanowire Composite Electrode Enabling Highly Flexible, Robust Organic Photovoltaics. <i>Solar Rrl</i> , 2022, 6, .	5.8	6
2	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6% Efficiency Organic Solar Cells with Enhanced Fill Factor. <i>Angewandte Chemie</i> , 2021, 133, 2352-2359.	2.0	21
3	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6% Efficiency Organic Solar Cells with Enhanced Fill Factor. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2322-2329.	13.8	138
4	Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling High Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003141.	19.5	144
5	Modulation of Morphological, Mechanical, and Photovoltaic Properties of Ternary Organic Photovoltaic Blends for Optimum Operation. <i>Advanced Energy Materials</i> , 2021, 11, 2003506.	19.5	92
6	A molecular interaction-diffusion framework for predicting organic solar cell stability. <i>Nature Materials</i> , 2021, 20, 525-532.	27.5	212
7	Designing Simple Conjugated Polymers for Scalable and Efficient Organic Solar Cells. <i>ChemSusChem</i> , 2021, 14, 3561-3568.	6.8	36
8	The performance-stability conundrum of BTP-based organic solar cells. <i>Joule</i> , 2021, 5, 2129-2147.	24.0	133
9	Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13653-13660.	10.3	21
10	Molecular Engineering and Morphology Control of Polythiophene:Nonfullerene Acceptor Blends for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2002572.	19.5	83
11	Low Temperature Aggregation Transitions in N3 and Y6 Acceptors Enable Double Annealing Method That Yields Hierarchical Morphology and Superior Efficiency in Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2005011.	14.9	66
12	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901823.	19.5	72
13	Carboxylate-Substituted Polythiophenes for Efficient Fullerene-Free Polymer Solar Cells: The Effect of Chlorination on Their Properties. <i>Macromolecules</i> , 2019, 52, 4464-4474.	4.8	75
14	Critical Role of Molecular Electrostatic Potential on Charge Generation in Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018, 36, 491-494.	4.9	163
15	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4324-4330.	10.3	48
16	Design and application of volatilizable solid additives in non-fullerene organic solar cells. <i>Nature Communications</i> , 2018, 9, 4645.	12.8	205
17	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. <i>Science China Chemistry</i> , 2018, 61, 1328-1337.	8.2	177
18	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. <i>Angewandte Chemie</i> , 2018, 130, 13093-13097.	2.0	8

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19	The Crucial Role of Chlorinated Thiophene Orientation in Conjugated Polymers for Photovoltaic Devices. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12911-12915.	13.8	87
20	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. <i>Advanced Materials</i> , 2018, 30, e1801801.	21.0	360
21	Fine-Tuned Photoactive and Interconnection Layers for Achieving over 13% Efficiency in a Fullerene-Free Tandem Organic Solar Cell. <i>Journal of the American Chemical Society</i> , 2017, 139, 7302-7309.	13.7	427
22	From Binary to Ternary: Improving the External Quantum Efficiency of Small-Molecule Acceptor-Based Polymer Solar Cells with a Minute Amount of Fullerene Sensitization. <i>Advanced Energy Materials</i> , 2017, 7, 1700328.	19.5	54
23	Achieving 12.8% Efficiency by Simultaneously Improving Open-Circuit Voltage and Short-Circuit Current Density in Tandem Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606340.	21.0	100
24	Control of Mesoscale Morphology and Photovoltaic Performance in Diketopyrrolopyrrole-Based Small Band Gap Terpolymers. <i>Advanced Energy Materials</i> , 2017, 7, 1601138.	19.5	59
25	Efficient Charge Transfer and Fine-Tuned Energy Level Alignment in a THF-Processed Fullerene-Free Organic Solar Cell with 11.3% Efficiency. <i>Advanced Materials</i> , 2017, 29, 1604241.	21.0	305
26	A Fluorinated Polythiophene Derivative with Stabilized Backbone Conformation for Highly Efficient Fullerene and Non-Fullerene Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 2993-3000.	4.8	141
27	Highly Efficient Fullerene-Free Polymer Solar Cells Fabricated with Polythiophene Derivative. <i>Advanced Materials</i> , 2016, 28, 9416-9422.	21.0	303
28	Design and Synthesis of a Low Bandgap Small Molecule Acceptor for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8283-8287.	21.0	421
29	Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Low-Band-Gap Polymer with Fine-Tuned Properties. <i>Advanced Materials</i> , 2016, 28, 5133-5138.	21.0	144
30	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , 2015, 58, 953-960.	6.3	41