

Cenqi Yan

List of Publications by Citations

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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.

48
papers

4,523
citations

24
h-index

50
g-index

50
ext. papers

5,348
ext. citations

15.1
avg, IF

5.92
L-index

#	Paper	IF	Citations
48	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	1634
47	Fused Hexacyclic Nonfullerene Acceptor with Strong Near-Infrared Absorption for Semitransparent Organic Solar Cells with 9.77% Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1701308	24	325
46	Fused Tris(thienothiophene)-Based Electron Acceptor with Strong Near-Infrared Absorption for High-Performance As-Cast Solar Cells. <i>Advanced Materials</i> , 2018 , 30, 1705969	24	305
45	Effect of Isomerization on High-Performance Nonfullerene Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9140-9147	16.4	296
44	Enhancing Performance of Nonfullerene Acceptors via Side-Chain Conjugation Strategy. <i>Advanced Materials</i> , 2017 , 29, 1702125	24	227
43	Realizing Small Energy Loss of 0.55 eV, High Open-Circuit Voltage >1 V and High Efficiency >10% in Fullerene-Free Polymer Solar Cells via Energy Driver. <i>Advanced Materials</i> , 2017 , 29, 1605216	24	216
42	Alloy Acceptor: Superior Alternative to PCBM toward Efficient and Stable Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 8021-8028	24	189
41	Breaking 10% Efficiency in Semitransparent Solar Cells with Fused-Undecacyclic Electron Acceptor. <i>Chemistry of Materials</i> , 2018 , 30, 239-245	9.6	144
40	Molecular Lock: A Versatile Key to Enhance Efficiency and Stability of Organic Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 5822-9	24	114
39	Dual-Accepting-Unit Design of Donor Material for All-Small-Molecule Organic Solar Cells with Efficiency Approaching 11%. <i>Chemistry of Materials</i> , 2018 , 30, 8661-8668	9.6	78
38	Diluting concentrated solution: a general, simple and effective approach to enhance efficiency of polymer solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 2357-2364	35.4	73
37	Delicate Morphology Control Triggers 14.7% Efficiency All-Small-Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2001076	21.8	70
36	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using C ₆₀ Functionalization. <i>Chemistry of Materials</i> , 2018 , 30, 309-313	9.6	65
35	Donor Derivative Incorporation: An Effective Strategy toward High Performance All-Small-Molecule Ternary Organic Solar Cells. <i>Advanced Science</i> , 2019 , 6, 1901613	13.6	62
34	Additive-induced miscibility regulation and hierarchical morphology enable 17.5% binary organic solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 3044-3052	35.4	61
33	Recent progress of all-polymer solar cells [From chemical structure and device physics to photovoltaic performance. <i>Materials Science and Engineering Reports</i> , 2020 , 140, 100542	30.9	49
32	Benzodithiophene-Based Small-Molecule Donors for Next-Generation All-Small-Molecule Organic Photovoltaics. <i>Matter</i> , 2020 , 3, 1403-1432	12.7	45

31	Synergy of Liquid-Crystalline Small-Molecule and Polymeric Donors Delivers Uncommon Morphology Evolution and 16.6% Efficiency Organic Photovoltaics. <i>Advanced Science</i> , 2020 , 7, 2000149	13.6	41
30	Enhancing performance of non-fullerene organic solar cells via side chain engineering of fused-ring electron acceptors. <i>Dyes and Pigments</i> , 2017 , 139, 627-634	4.6	40
29	Efficient and stable organic solar cells via a sequential process. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8086-8093	7.1	39
28	Enhancing the performance of non-fullerene organic solar cells via end group engineering of fused-ring electron acceptors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16638-16644	13	38
27	Rhodanine flanked indacenodithiophene as non-fullerene acceptor for efficient polymer solar cells. <i>Science China Chemistry</i> , 2017 , 60, 257-263	7.9	36
26	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1910466	15.6	36
25	Enhanced Electron Transport and Heat Transfer Boost Light Stability of Ternary Organic Photovoltaic Cells Incorporating Non-Fullerene Small Molecule and Polymer Acceptors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900497	6.4	30
24	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48095-48102	9.5	23
23	Medium-Bandgap Small-Molecule Donors Compatible with Both Fullerene and Nonfullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9587-9594	9.5	21
22	Deciphering the Role of Fluorination: Morphological Manipulation Prompts Charge Separation and Reduces Carrier Recombination in All-Small-Molecule Photovoltaics. <i>Solar Rrl</i> , 2020 , 4, 1900528	7.1	21
21	ITC-2Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900377	7.1	20
20	Small molecule donors based on benzodithiophene and diketopyrrolopyrrole compatible with both fullerene and non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5843-5848	7.1	18
19	Cracking perylene diimide backbone for fullerene-free polymer solar cells. <i>Dyes and Pigments</i> , 2016 , 128, 226-234	4.6	16
18	Reducing VOC loss via structure compatible and high lowest unoccupied molecular orbital nonfullerene acceptors for over 17%-efficiency ternary organic photovoltaics. <i>EcoMat</i> , 2020 , 2, e12061	9.4	15
17	Chlorination Strategy-Induced Abnormal Nanomorphology Tuning in High-Efficiency Organic Solar Cells: A Study of Phenyl-Substituted Benzodithiophene-Based Nonfullerene Acceptors. <i>Solar Rrl</i> , 2019 , 3, 1900262	7.1	15
16	Stretchable ITO-Free Organic Solar Cells with Intrinsic Anti-Reflection Substrate for High-Efficiency Outdoor and Indoor Energy Harvesting. <i>Advanced Functional Materials</i> , 2021 , 31, 2010172	15.6	15
15	Fine-tuning solid state packing and significantly improving photovoltaic performance of conjugated polymers through side chain engineering via random polymerization. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5585-5593	13	14
14	Novel Oligomer Enables Green Solvent Processed 17.5% Ternary Organic Solar Cells: Synergistic Energy Loss Reduction and Morphology Fine-tuning.. <i>Advanced Materials</i> , 2022 , e2107659	24	14

13	Enhancing Efficiency and Stability of Organic Solar Cells by UV Absorbent. <i>Solar Rrl</i> , 2017 , 1, 1700148	7.1	13
12	Chalcogen-Fused Perylene Diimides-Based Nonfullerene Acceptors for High-Performance Organic Solar Cells: Insight into the Effect of O, S, and Se. <i>Solar Rrl</i> , 2020 , 4, 1900453	7.1	13
11	1,1-Dicyanomethylene-3-Indanone End-Cap Engineering for Fused-Ring Electron Acceptor-Based High-Performance Organic Photovoltaics. <i>Cell Reports Physical Science</i> , 2021 , 2, 100292	6.1	12
10	Methane-peryene diimide-based small molecule acceptors for high efficiency non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10901-10907	7.1	11
9	Ladder-type nonacyclic indacenodithieno[3,2-b]indole for highly efficient organic field-effect transistors and organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8988-8998	7.1	9
8	Fluorinated oligothiophene donors for high-performance nonfullerene small-molecule organic solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2680-2685	5.8	8
7	Pairing 1D/2D-conjugation donors/acceptors towards high-performance organic solar cells. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 276-283	7.8	7
6	Functionalizing tetraphenylpyrazine with perylene diimides (PDIs) as high-performance nonfullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14563-14570	7.1	6
5	Recent progress of metal-halide perovskite-based tandem solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4538-4564	7.8	5
4	Emerging Strategies toward Mechanically Robust Organic Photovoltaics: Focus on Active Layer. <i>Advanced Energy Materials</i> , 2201087	21.8	5
3	A novel hole extraction layer to enhance the performance of inverted organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25385-25390	13	4
2	Copper phosphotungstate as low cost, solution-processed, stable inorganic anode interfacial material enables organic photovoltaics with over 18% efficiency. <i>Nano Energy</i> , 2022 , 94, 106923	17.1	1
1	Progress in Organic Photodiodes through Physical Process Insights. <i>Advanced Energy and Sustainability Research</i> , 2200002	1.6	1