Chen, Yuzhong

List of Publications by Citations

33 papers	1,865 citations	23 h-index	33 g-index
33 ext. papers	2,476 ext. citations	16.8 avg, IF	5.1 L-index

#	Paper	IF	Citations
33	Improving open-circuit voltage by a chlorinated polymer donor endows binary organic solar cells efficiencies over 17%. *Science China Chemistry*, **2020**, 63, 325-330	7.9	213
32	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. *Energy and Environmental Science*, **2019**, 12, 2529-2536	35.4	188
31	Efficient All-Polymer Solar Cells based on a New Polymer Acceptor Achieving 10.3% Power Conversion Efficiency. *ACS Energy Letters*, **2019**, 4, 417-422	20.1	160
30	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. *ACS Energy Letters*, **2020**, 5, 2711-2720	20.1	137
29	Reduced Energy Loss Enabled by a Chlorinated Thiophene-Fused Ending-Group Small Molecular Acceptor for Efficient Nonfullerene Organic Solar Cells with 13.6% Efficiency. *Advanced Energy Materials*, **2019**, 9, 1900041	21.8	117
28	Efficient Nonfullerene Organic Solar Cells with Small Driving Forces for Both Hole and Electron Transfer. *Advanced Materials*, **2018**, 30, e1804215	24	116
27	Concurrent improvement in JSC and VOC in high-efficiency ternary organic solar cells enabled by a red-absorbing small-molecule acceptor with a high LUMO level. *Energy and Environmental Science*, **2020**, 13, 2115-2123	35.4	115
26	Modulation of End Groups for Low-Bandgap Nonfullerene Acceptors Enabling High-Performance Organic Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1801203	21.8	86
25	Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling High-Performance Organic Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2003141	21.8	74
24	Achieving 16.68% efficiency ternary as-cast organic solar cells. *Science China Chemistry*, **2021**, 64, 581-589	7.9	63
23	Pseudo-bilayer architecture enables high-performance organic solar cells with enhanced exciton diffusion length. *Nature Communications*, **2021**, 12, 468	17.4	61
22	Altering the Positions of Chlorine and Bromine Substitution on the End Group Enables High-Performance Acceptor and Efficient Organic Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2002649	21.8	59
21	All-Polymer Solar Cells with over 12% Efficiency and a Small Voltage Loss Enabled by a Polymer Acceptor Based on an Extended Fused Ring Core. *Advanced Energy Materials*, **2020**, 10, 2001408	21.8	40
20	Selenophene-Incorporated Quaterchalcogenophene-Based Donor–Acceptor Copolymers To Achieve Efficient Solar Cells with Jsc Exceeding 20 mA/cm2. *Chemistry of Materials*, **2017**, 29, 10045-10052	9.6	39
19	Improving the performance of near infrared binary polymer solar cells by adding a second non-fullerene intermediate band-gap acceptor. *Journal of Materials Chemistry C*, **2020**, 8, 909-915	7.1	39
18	Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. *ACS Energy Letters*, **2020**, 5, 3415-3425	20.1	39
17	Achieving Efficient Ternary Organic Solar Cells Using Structurally Similar Non-Fullerene Acceptors with Varying Flanking Side Chains. *Advanced Energy Materials*, **2021**, 11, 2100079	21.8	32

List of Publications

16	All-polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. *Aggregate*,e58	22.9	31
15	Conformation-Tuning Effect of Asymmetric Small Molecule Acceptors on Molecular Packing, Interaction, and Photovoltaic Performance. *Small*, **2020**, 16, e2001942	11	30
14	A compatible polymer acceptor enables efficient and stable organic solar cells as a solid additive. *Journal of Materials Chemistry A*, **2020**, 8, 17706-17712	13	28
13	Side-Chain Engineering on Y-Series Acceptors with Chlorinated End Groups Enables High-Performance Organic Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2003777	21.8	26
12	Simultaneously increasing open-circuit voltage and short-circuit current to minimize the energy loss in organic solar cells via designing asymmetrical non-fullerene acceptor. *Journal of Materials Chemistry A*, **2019**, 7, 11053-11061	13	25
11	Random Polymerization Strategy Leads to a Family of Donor Polymers Enabling Well-Controlled Morphology and Multiple Cases of High-Performance Organic Solar Cells. *Advanced Materials*, **2020**, 32, e2003500	24	24
10	ITC-2Cl: A Versatile Middle-Bandgap Nonfullerene Acceptor for High-Efficiency Panchromatic Ternary Organic Solar Cells. *Solar Rrl*, **2020**, 4, 1900377	7.1	20
9	Alkyl-Chain Branching of Non-Fullerene Acceptors Flanking Conjugated Side Groups toward Highly Efficient Organic Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2102596	21.8	19
8	Improved organic solar cell efficiency based on the regulation of an alkyl chain on chlorinated non-fullerene acceptors. *Materials Chemistry Frontiers*, **2020**, 4, 2428-2434	7.8	18
7	A Chlorinated Donor Polymer Achieving High-Performance Organic Solar Cells with a Wide Range of Polymer Molecular Weight. *Advanced Functional Materials*, **2021**, 31, 2102413	15.6	17
6	Efficient Organic Ternary Solar Cells Employing Narrow Band Gap Diketopyrrolopyrrole Polymers and Nonfullerene Acceptors. *Chemistry of Materials*, **2020**, 32, 7309-7317	9.6	14
5	Alkoxy substitution on IDT-Series and Y-Series non-fullerene acceptors yielding highly efficient organic solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 7481-7490	13	14
4	A Pyrrole-Fused Asymmetrical Electron Acceptor for Polymer Solar Cells with Approaching 16% Efficiency. *Small Structures*, **2021**, 2, 2000052	8.7	8
3	Fluorinated pyrazine-based D-A conjugated polymers for efficient non-fullerene polymer solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 7083-7089	13	6
2	Branched Alkoxy Side Chain Enables High-Performance Non-Fullerene Acceptors with High Open-Circuit Voltage and Highly Ordered Molecular Packing. *Chemistry of Materials*, **2022**, 34, 2059-2068	9.6	6
1	Side-chain engineering with chalcogen-containing heterocycles on non-fullerene acceptors for efficient organic solar cells. *Chemical Engineering Journal*, **2022**, 441, 135998	14.7	1