Han Yu

List of Publications by Year
in descending order

35 papers	2,378 citations	293460 24 h-index	425179 34 g-index
35 all docs	35 docs citations	35 times ranked	1570 citing authors

#	Article	IF	Citations
1	A Vinyleneâ€Linkerâ€Based Polymer Acceptor Featuring a Coplanar and Rigid Molecular Conformation Enables Highâ€Performance Allâ€Polymer Solar Cells with Over 17% Efficiency. Advanced Materials, 2022, 34, e2200361.	11.1	131
2	Efficient All-Polymer Solar Cells with Sequentially Processed Active Layers. Polymers, 2022, 14, 2058.	2.0	6
3	Blueshifting the Absorption of a Smallâ€Molecule Donor and Using it as the Third Component to Achieve Highâ€Efficiency Ternary Organic Solar Cells. Solar Rrl, 2022, 6, .	3.1	8
4	Linker Unit Modulation of Polymer Acceptors Enables Highly Efficient Airâ€Processed Allâ€Polymer Solar Cells. Advanced Science, 2022, 9, .	5.6	12
5	Asymmetric Alkoxy and Alkyl Substitution on Nonfullerene Acceptors Enabling Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2003141.	10.2	144
6	Fluorinated End Group Enables Highâ€Performance Allâ€Polymer Solar Cells with Nearâ€Infrared Absorption and Enhanced Device Efficiency over 14%. Advanced Energy Materials, 2021, 11, 2003171.	10.2	89
7	Achieving ultra-narrow bandgap non-halogenated non-fullerene acceptors via vinylene Ï€-bridges for efficient organic solar cells. Materials Advances, 2021, 2, 2132-2140.	2.6	16
8	Unraveling the Temperature Dependence of Exciton Dissociation and Free Charge Generation in Nonfullerene Organic Solar Cells. Solar Rrl, 2021, 5, 2000789.	3.1	10
9	Achieving Efficient Ternary Organic Solar Cells Using Structurally Similar Nonâ€Fullerene Acceptors with Varying Flanking Side Chains. Advanced Energy Materials, 2021, 11, 2100079.	10.2	80
10	Regioâ€Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for Allâ€Polymer Solar Cells with 15.2â€‰% Efficiency. Angewandte Chemie, 2021, 133, 10225-10234.	1.6	13
11	Regioâ€Regular Polymer Acceptors Enabled by Determined Fluorination on End Groups for Allâ€Polymer Solar Cells with 15.2â€‰% Efficiency. Angewandte Chemie - International Edition, 2021, 60, 10137-10146.	7.2	145
12	A Difluoroâ€Monobromo End Group Enables Highâ€Performance Polymer Acceptor and Efficient Allâ€Polymer Solar Cells Processable with Green Solvent under Ambient Condition. Advanced Functional Materials, 2021, 31, 2100791.	7.8	89
13	Achieving over 17% efficiency of ternary all-polymer solar cells with two well-compatible polymer acceptors. Joule, 2021, 5, 1548-1565.	11.7	281
14	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.	5.2	42
15	Alkylâ€Chain Branching of Nonâ€Fullerene Acceptors Flanking Conjugated Side Groups toward Highly Efficient Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2102596.	10.2	125
16	B â†N Bridged Polymer Acceptors with 900 nm Absorption Edges Enabling High-Performance All-Polymer Solar Cells. Macromolecules, 2020, 53, 9529-9538.	2.2	16
17	Incorporation of alkylthio side chains on benzothiadiazole-based non-fullerene acceptors enables high-performance organic solar cells with over 16% efficiency. Journal of Materials Chemistry A, 2020, 8, 23239-23247.	5.2	39
18	Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. ACS Energy Letters, 2020, 5, 3415-3425.	8.8	73

#	Article	IF	Citations
19	Tailoring non-fullerene acceptors using selenium-incorporated heterocycles for organic solar cells with over 16% efficiency. Journal of Materials Chemistry A, 2020, 8, 23756-23765.	5.2	85
20	Selective Hole and Electron Transport in Efficient Quaternary Blend Organic Solar Cells. Joule, 2020, 4, 1790-1805.	11.7	110
21	Random Polymerization Strategy Leads to a Family of Donor Polymers Enabling Wellâ€Controlled Morphology and Multiple Cases of Highâ€Performance Organic Solar Cells. Advanced Materials, 2020, 32, e2003500.	11.1	59
22	Allâ€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.	10.2	55
23	A Narrowâ€Bandgap nâ€Type Polymer with an Acceptorâ€“Acceptor Backbone Enabling Efficient Allâ€Polymer Solar Cells. Advanced Materials, 2020, 32, e2004183.	11.1	184
24	Modulating Energy Level on an Aâ€Dâ€Aâ€²â€Dâ€Aâ€Type Unfused Acceptor by a Benzothiadiazole Core Enables Organic Solar Cells with Simple Procedure and High Performance. Solar Rrl, 2020, 4, 2000421.	3.1	48
25	A polycyclic aromatic hydrocarbon diradical with pH-responsive magnetic properties. Chemical Science, 2020, 11, 5565-5571.	3.7	39
26	High Open-circuit Voltage and Low Voltage Loss in All-polymer Solar Cell with a Poly(coronenediimide-vinylene) Acceptor. Chinese Journal of Polymer Science (English Edition), 2020, 38, 1157-1163.	2.0	4
27	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.	3.2	27
28	Enhanced hindrance from phenyl outer side chains on nonfullerene acceptor enables unprecedented simultaneous enhancement in organic solar cell performances with 16.7% efficiency. Nano Energy, 2020, 76, 105087.	8.2	85
29	Transannularly conjugated tetrameric perylene diimide acceptors containing [2.2]paracyclophane for non-fullerene organic solar cells. Journal of Materials Chemistry A, 2020, 8, 6501-6509.	5.2	42
30	Donor Polymer Can Assist Electron Transport in Bulk Heterojunction Blends with Small Energetic Offsets. Advanced Materials, 2019, 31, e1903998.	11.1	49
31	Efficient inverted perovskite solar cells with truxene-bridged PDI trimers as electron transporting materials. Materials Chemistry Frontiers, 2019, 3, 2137-2142.	3.2	22
32	Tweaking the Molecular Geometry of a Tetraperylenediimide Acceptor. ACS Applied Materials & Interfaces, 2019, 11, 6970-6977.	4.0	20
33	Intramolecular Ï€-stacked perylene-diimide acceptors for non-fullerene organic solar cells. Journal of Materials Chemistry A, 2019, 7, 8136-8143.	5.2	34
34	Efficient All-Polymer Solar Cells based on a New Polymer Acceptor Achieving 10.3% Power Conversion Efficiency. ACS Energy Letters, 2019, 4, 417-422.	8.8	196
35	Slow hole transfer kinetics lead to high blend photoluminescence of unfused Aâ€Dâ€Aâ€²â€Dâ€A type acceptors with unfavorable HOMO offset. Solar Rrl, 0, , .	3.1	0