Shiyu Feng

List of Publications by Year
in descending order

40 papers	2,418 citations	394286 19 h-index	289141 40 g-index
40 all docs	40 docs citations	40 times ranked	2007 citing authors

#	Article	IF	Citations
1	Exploiting Noncovalently Conformational Locking as a Design Strategy for High Performance Fused-Ring Electron Acceptor Used in Polymer Solar Cells. Journal of the American Chemical Society, 2017, 139, 3356-3359.	6.6	499
2	Noncovalently fused-ring electron acceptors with near-infrared absorption for high-performance organic solar cells. Nature Communications, 2019, 10, 3038.	5.8	297
3	Ternaryâ€Blend Polymer Solar Cells Combining Fullerene and Nonfullerene Acceptors to Synergistically Boost the Photovoltaic Performance. Advanced Materials, 2016, 28, 9559-9566.	11.1	267
4	Fusedâ€Ring Acceptors with Asymmetric Side Chains for Highâ€Performance Thickâ€Film Organic Solar Cells. Advanced Materials, 2017, 29, 1703527.	11.1	238
5	Enhancing the Performance of Organic Solar Cells by Hierarchically Supramolecular Self-Assembly of Fused-Ring Electron Acceptors. Chemistry of Materials, 2018, 30, 4307-4312.	3.2	116
6	Nonfullerene Acceptors with Enhanced Solubility and Ordered Packing for High-Efficiency Polymer Solar Cells. ACS Energy Letters, 2018, 3, 1832-1839.	8.8	115
7	Simultaneous enhancement of the molecular planarity and the solubility of non-fullerene acceptors: effect of aliphatic side-chain substitution on the photovoltaic performance. Journal of Materials Chemistry A, 2017, 5, 7776-7783.	5.2	87
8	Regulating the Packing of Non-Fullerene Acceptors via Multiple Noncovalent Interactions for Enhancing the Performance of Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 4638-4648.	4.0	87
9	Highâ€Efficiency Asâ€Cast Organic Solar Cells Based on Acceptors with Steric Hindrance Induced Planar Terminal Group. Advanced Energy Materials, 2019, 9, 1901280.	10.2	86
10	4-Alkyl-3,5-difluorophenyl-Substituted Benzodithiophene-Based Wide Band Gap Polymers for High-Efficiency Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 3686-3692.	4.0	75
11	Effect of Non-fullerene Acceptorsâ€™ Side Chains on the Morphology and Photovoltaic Performance of Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 33906-33912.	4.0	66
12	Controlling Molecular Packing and Orientation via Constructing a Ladder-Type Electron Acceptor with Asymmetric Substituents for Thick-Film Nonfullerene Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 3098-3106.	4.0	40
13	Enhancing the Performance of Non-Fullerene Organic Solar Cells Using Regioregular Wide-Bandgap Polymers. Macromolecules, 2018, 51, 8646-8651.	2.2	39
14	Molecular â€œFlowerâ€• as the High-Mobility Hole-Transport Material for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43855-43860.	4.0	31
15	A propeller-shaped perylene diimide hexamer as a nonfullerene acceptor for organic solar cells. Journal of Materials Chemistry C, 2018, 6, 9336-9340.	2.7	28
16	Fused pentacyclic electron acceptors with four <i>cis</i>-arranged alkyl side chains for efficient polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 3724-3729.	5.2	27
17	Enhance the performance of polymer solar cells via extension of the flanking end groups of fused ring acceptors. Science China Chemistry, 2018, 61, 1320-1327.	4.2	22
18	Dihydropyreno[1,2-b:6,7-bâ€²]dithiophene based electron acceptors for high efficiency as-cast organic solar cells. Journal of Materials Chemistry A, 2019, 7, 5943-5948.	5.2	21

#	Article	IF	Citations
19	Organic Single-Crystal Transistor with Unique Photo Responses and Its Application as Light-Stimulated Synaptic Devices. ACS Applied Materials & Interfaces, 2020, 12, 30627-30634.	4.0	21
20	Nonvolatile Transistor Memory Based on a High-<i>k</i> Dielectric Polymer Blend for Multilevel Data Storage, Encryption, and Protection. Chemistry of Materials, 2020, 32, 3641-3650.	3.2	20
21	Influence of polymer side chains on the photovoltaic performance of non-fullerene organic solar cells. Journal of Materials Chemistry C, 2017, 5, 937-942.	2.7	19
22	Efficient Ternary Organic Solar Cells with a New Electron Acceptor Based on 3,4-(2,2-Dihexylpropylenedioxy)thiophene. ACS Applied Materials & Interfaces, 2020, 12, 40590-40598.	4.0	18
23	Non-fullerene small molecular acceptors with a carbazole core for organic solar cells with high open-circuit voltage. Dyes and Pigments, 2017, 146, 293-299.	2.0	17
24	High efficiency polymer solar cells based on alkylthio substituted benzothiadiazole-quaterthiophene alternating conjugated polymers. Organic Electronics, 2017, 40, 36-41.	1.4	16
25	High efficiency ternary polymer solar cells based on a fused pentacyclic electron acceptor. Journal of Materials Chemistry A, 2018, 6, 6854-6859.	5.2	16
26	Combustion characteristics and typical pollutant emissions of corn stalk blending with municipal sewage sludge. Environmental Science and Pollution Research, 2021, 28, 9792-9805.	2.7	16
27	The design of highly efficient polymer solar cells with outstanding short-circuit current density based on small band gap electron acceptor. Dyes and Pigments, 2018, 150, 363-369.	2.0	15
28	Enhancing the Performance of Polymer Solar Cells by Using Donor Polymers Carrying Discretely Distributed Side Chains. ACS Applied Materials & Interfaces, 2017, 9, 24020-24026.	4.0	14
29	High efficiency ternary organic solar cells via morphology regulation with asymmetric nonfused ring electron acceptor. Chemical Engineering Journal, 2022, 438, 135384.	6.6	14
30	Influence of Sewage Sludge on Ash Fusion during Combustion of Maize Straw. Energy & Fuels, 2019, 33, 10237-10246.	2.5	12
31	Synthesizing Organo/Hydrogel Hybrids with Diverse Programmable Patterns and Ultrafast Selfâ€Actuating Ability via a Siteâ€Specific â€œIn Situâ€•Transformation Strategy. Advanced Functional Materials, 2020, 30, 2002163.	7.8	12
32	Rigidityâ€Tuned Fullâ€Color Emission: Uncommon Luminescence Change from Polymer Freeâ€Volume Variations. Advanced Materials, 2022, 34, e2201337.	11.1	12
33	Responsive Zwitterionic Polymers with Humidity and Voltage Dual-Switching for Multilevel Date Encryption and Anticounterfeiting. Chemistry of Materials, 2021, 33, 1477-1488.	3.2	10
34	Enhancing the Efficiency of Polymer Solar Cells by Incorporation of 2,5-Difluorobenzene Units into the Polymer Backbone via Random Copolymerization. ACS Applied Materials & Interfaces, 2017, 9, 23775-23781.	4.0	9
35	Fused-ring acceptor with a spiro-bridged ladder-type core for organic solar cells. Dyes and Pigments, 2019, 163, 153-158.	2.0	9
36	Patterning, morphing, and coding of gel composites by direct ink writing. Journal of Materials Chemistry A, 2021, 9, 8586-8597.	5.2	8

#	Article	IF	Citations
37	Enhancing the Photovoltaic Performance of a Benzo[<i>c</i>][1,2,5]thiadiazole-Based Polymer Donor via a Non-Fullerene Acceptor Pairing Strategy. ACS Applied Materials & Interfaces, 2020, 12, 53021-53028.	4.0	6
38	Effect of bifurcation point of alkoxy side chains on photovoltaic performance of 5-alkoxy-6-fluorobenzo[c][1,2,5]thiadiazole-based conjugated polymers. Solar Energy Materials and Solar Cells, 2016, 154, 42-48.	3.0	5
39	Nonfullerene acceptors with a novel nonacyclic core for high-performance polymer solar cells. Journal of Materials Chemistry C, 2019, 7, 3335-3341.	2.7	5
40	High-k polymer dielectrics with different cross-linked networks for nonvolatile transistor memory device. Organic Electronics, 2021, 96, 106222.	1.4	3