Jiangsheng Yu

List of Publications by Year
in descending order

54 papers	2,374 citations	218677 26 h-index	206112 48 g-index
55 all docs	55 docs citations	55 times ranked	2007 citing authors

#	Article	IF	Citations
1	Dithieno[3,2â€‹<i>b</i>:2â€²,3â€²â€‹<i>d</i>]pyrrol Fused Nonfullerene Acceptors Enabling Over 13% Efficiency for Organic Solar Cells. Advanced Materials, 2018, 30, e1707150.	21.0	373
2	Ternary nonfullerene polymer solar cells with efficiency >13.7% by integrating the advantages of the materials and two binary cells. Energy and Environmental Science, 2018, 11, 2134-2141.	30.8	223
3	Molecular engineering of central fused-ring cores of non-fullerene acceptors for high-efficiency organic solar cells. Journal of Materials Chemistry A, 2019, 7, 4313-4333.	10.3	122
4	Conformation Locking on Fusedâ€Ring Electron Acceptor for Highâ€Performance Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1705095.	14.9	120
5	High-Efficiency Ternary Organic Solar Cells with a Good Figure-of-Merit Enabled by Two Low-Cost Donor Polymers. ACS Energy Letters, 2022, 7, 2547-2556.	17.4	109
6	Nonfullerene Acceptor for Organic Solar Cells with Chlorination on Dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]pyrrol Fused-Ring. ACS Energy Letters, 2019, 4, 763-770.	17.4	102
7	<i>In situ</i>and<i>ex situ</i>investigations on ternary strategy and co-solvent effects towards high-efficiency organic solar cells. Energy and Environmental Science, 2022, 15, 2479-2488.	30.8	84
8	High performance non-fullerene polymer solar cells based on PTB7-Th as the electron donor with 10.42% efficiency. Journal of Materials Chemistry A, 2018, 6, 2549-2554.	10.3	73
9	Tuning of the conformation of asymmetric nonfullerene acceptors for efficient organic solar cells. Journal of Materials Chemistry A, 2019, 7, 22279-22286.	10.3	67
10	Retarding the Crystallization of a Nonfullerene Electron Acceptor for Highâ€Performance Polymer Solar Cells. Advanced Functional Materials, 2019, 29, 1807662.	14.9	57
11	Molecular Orientation Unified Nonfullerene Acceptor Enabling 14% Efficiency Asâ€Cast Organic Solar Cells. Advanced Functional Materials, 2019, 29, 1903269.	14.9	56
12	Modification on the Indacenodithieno[3,2-<i>b</i>]thiophene Core to Achieve Higher Current and Reduced Energy Loss for Nonfullerene Solar Cells. Chemistry of Materials, 2020, 32, 1297-1307.	6.7	46
13	Molecular engineering of acceptors to control aggregation for optimized nonfullerene solar cells. Journal of Materials Chemistry A, 2020, 8, 5458-5466.	10.3	45
14	Asymmetric simple unfused acceptor enabling over 12% efficiency organic solar cells. Chemical Engineering Journal, 2021, 412, 128770.	12.7	45
15	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. Journal of Materials Chemistry A, 2017, 5, 23319-23327.	10.3	40
16	2D Sideâ€Chain Engineered Asymmetric Acceptors Enabling Over 14% Efficiency and 75% Fill Factor Stable Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2006141.	14.9	40
17	Boosting performance of inverted organic solar cells by using a planar coronene based electron-transporting layer. Nano Energy, 2017, 39, 454-460.	16.0	39
18	Aperiodic band-pass electrode enables record-performance transparent organic photovoltaics. Joule, 2022, 6, 1918-1930.	24.0	38

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19	An unfused-ring acceptor with high side-chain economy enabling 11.17% as-cast organic solar cells. Materials Horizons, 2021, 8, 1008-1016.	12.2	36
20	Direct access to 4,8-functionalized benzo[1,2-b:4,5-bâ€²]dithiophenes with deep low-lying HOMO levels and high mobilities. Journal of Materials Chemistry A, 2014, 2, 13580-13586.	10.3	33
21	Regulating the morphology of fluorinated non-fullerene acceptor and polymer donor via binary solvent mixture for high efficiency polymer solar cells. Science China Chemistry, 2019, 62, 1221-1229.	8.2	32
22	A New Hole Transport Material for Efficient Perovskite Solar Cells With Reduced Device Cost. Solar Rrl, 2018, 2, 1700175.	5.8	31
23	Over 15.5% efficiency organic solar cells with triple sidechain engineered ITIC. Science Bulletin, 2020, 65, 1533-1536.	9.0	30
24	Tuning nanoscale morphology using mixed solvents and solvent vapor treatment for high performance polymer solar cells. RSC Advances, 2014, 4, 48724-48733.	3.6	29
25	Chlorinated unfused acceptor enabling 13.57% efficiency and 73.39% fill factor organic solar cells via fine-tuning alkoxyl chains on benzene core. Chemical Engineering Journal, 2022, 427, 131828.	12.7	29
26	Revealing the photo-degradation mechanism of PM6:Y6 based high-efficiency organic solar cells. Journal of Materials Chemistry C, 2021, 9, 13972-13980.	5.5	28
27	A Roomâ€Temperature Processable PDIâ€Based Electronâ€Transporting Layer for Enhanced Performance in PDIâ€Based Nonâ€Fullerene Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600476.	3.7	27
28	Nonacyclic carbazole-based non-fullerene acceptors enable over 12% efficiency with enhanced stability for organic solar cells. Journal of Materials Chemistry A, 2019, 7, 21903-21910.	10.3	26
29	Over 15% Efficiency in Ternary Organic Solar Cells by Enhanced Charge Transport and Reduced Energy Loss. ACS Applied Materials & Interfaces, 2020, 12, 21633-21640.	8.0	26
30	A low temperature processable tin oxide interlayer via amine-modification for efficient and stable organic solar cells. Journal of Energy Chemistry, 2021, 56, 496-503.	12.9	25
31	Naphthodifuran alternating quinoxaline copolymers with a bandgap of â^¼1.2 eV and their photovoltaic characterization. New Journal of Chemistry, 2014, 38, 4816-4822.	2.8	24
32	Side chain engineering on dithieno[3,2-<i>b</i>:2,3-<i>d</i>]pyrrol fused electron acceptors for efficient organic solar cells. Materials Chemistry Frontiers, 2019, 3, 702-708.	5.9	24
33	A Simple Dithieno[3,2â€b:2â€²,3â€²â€d]pyrrolâ€Rhodanine Molecular Third Component Enables Over 16.7% Efficiency and Stable Organic Solar Cells. Small, 2021, 17, e2007746.	10.0	22
34	A versatile strategy to directly synthesize 4,8-functionalized benzo[1,2-b:4,5-bâ€²]difurans for organic electronics. Journal of Materials Chemistry A, 2015, 3, 1920-1924.	10.3	20
35	Enhancing phase separation with a conformation-locked nonfullerene acceptor for over 14.4% efficiency solar cells. Journal of Materials Chemistry C, 2019, 7, 13279-13286.	5.5	20
36	Copper phosphotungstate as low cost, solution-processed, stable inorganic anode interfacial material enables organic photovoltaics with over 18% efficiency. Nano Energy, 2022, 94, 106923.	16.0	20

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37	Correlation of structure and photovoltaic performance of benzo[1,2-b:4,5-bâ€²]dithiophene copolymers alternating with different acceptors. New Journal of Chemistry, 2015, 39, 2248-2255.	2.8	19
38	Side-chain Engineering of Benzo[1,2-b:4,5-bâ€™]dithiophene Core-structured Small Molecules for High-Performance Organic Solar Cells. Scientific Reports, 2016, 6, 25355.	3.3	18
39	13.76% efficiency nonfullerene solar cells enabled by selenophene integrated dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]pyrrole asymmetric acceptors. Materials Chemistry Frontiers, 2020, 4, 924-932.	5.9	18
40	High mobility acceptor as third component enabling high-performance large area and thick active layer ternary solar cells. Chemical Engineering Journal, 2021, 418, 129539.	12.7	18
41	Triisopropylsilylethynyl substituted benzodithiophene copolymers: synthesis, properties and photovoltaic characterization. Journal of Materials Chemistry C, 2015, 3, 1595-1603.	5.5	17
42	Selenium-substituted polymers for improved photovoltaic performance. Physical Chemistry Chemical Physics, 2016, 18, 7978-7986.	2.8	16
43	Side-chain manipulation on accepting units of two-dimensional benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene polymers for organic photovoltaics. Polymer Chemistry, 2016, 7, 1486-1493.	3.9	15
44	Charge density modulation on asymmetric fused-ring acceptors for high-efficiency photovoltaic solar cells. Materials Chemistry Frontiers, 2020, 4, 1747-1755.	5.9	15
45	14.55% efficiency PBDB-T ternary organic solar cells enabled by two alloy-forming acceptors featuring distinct structural orders. Chemical Engineering Journal, 2021, 413, 127444.	12.7	12
46	Highly efficient organic solar cells enabled by a porous ZnO/PEIE electron transport layer with enhanced light trapping. Science China Materials, 2021, 64, 808-819.	6.3	12
47	An asymmetric acceptor enabling 77.51% fill factor in organic solar cells. Science Bulletin, 2020, 65, 1876-1879.	9.0	11
48	Benzotrithiophene polymers with tuneable bandgap for photovoltaic applications. RSC Advances, 2014, 4, 53939-53945.	3.6	10
49	Doping a D-A structural polymer based on benzodithiophene and triazoloquinoxaline for efficiency improvement of ternary solar cells. Electronic Materials Letters, 2015, 11, 236-240.	2.2	8
50	Low structure order acceptor as third component enables high-performance semitransparent organic solar cells. Chemical Engineering Journal, 2022, 428, 132640.	12.7	8
51	Intermolecular interaction induced spontaneous aggregation enables over 14% efficiency as-cast nonfullerene solar cells. Chemical Engineering Journal, 2022, 427, 131942.	12.7	7
52	High-performance bifacial semitransparent organic photovoltaics featuring a decently transparent TeO₂/Ag electrode. Materials Chemistry Frontiers, 2021, 5, 8197-8205.	5.9	4
53	Unfused Nonfullerene Acceptors Based on Simple Dipolar Merocyanines. Chemistry - A European Journal, 2021, 27, 18103-18108.	3.3	4
54	Unsupervised text pattern learning using minimum description length. , 2010, , .		1