Zuo Xiao

List of Publications by Year
in descending order

65 papers	9,791 citations	108046 37 h-index	124990 64 g-index
65 all docs	65 docs citations	65 times ranked	6894 citing authors

#	Article	IF	Citations
1	Bananaâ€shaped electron acceptors with an electronâ€rich core fragment and 3D packing capability. , 2023, 5, .		22
2	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. Journal of Materials Chemistry A, 2022, 10, 3314-3320.	5.2	17
3	ADAâ€²DA small molecule acceptors with non-fully-fused core units. Materials Chemistry Frontiers, 2022, 6, 802-806.	3.2	3
4	Low-bandgap small molecule acceptors with asymmetric side chains. Materials Chemistry Frontiers, 2022, 6, 1858-1864.	3.2	2
5	A chlorinated lactone polymer donor featuring high performance and low cost. Journal of Semiconductors, 2022, 43, 050501.	2.0	14
6	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	4.3	91
7	A History and Perspective of Nonâ€Fullerene Electron Acceptors for Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2003570.	10.2	323
8	D18, an eximious solar polymer!. Journal of Semiconductors, 2021, 42, 010502.	2.0	117
9	Efficient wide-bandgap copolymer donors with reduced synthesis cost. Journal of Materials Chemistry C, 2021, 9, 16187-16191.	2.7	4
10	A large-bandgap copolymer donor for efficient ternary organic solar cells. Materials Chemistry Frontiers, 2021, 5, 6139-6144.	3.2	13
11	A universal method for constructing high efficiency organic solar cells with stacked structures. Energy and Environmental Science, 2021, 14, 2314-2321.	15.6	75
12	Inorganic perovskite/organic tandem solar cells with efficiency over 20%. Journal of Semiconductors, 2021, 42, 020501.	2.0	31
13	Dithieno[3',2':3,4;2'',3'':5,6]benzo[1,2-c][1,2,5]oxadiazole-based polymer donors with deep HOMO levels. Journal of Semiconductors, 2021, 42, 060501.	2.0	10
14	18.69% PCE from organic solar cells. Journal of Semiconductors, 2021, 42, 060502.	2.0	121
15	Post-sulphuration enhances the performance of a lactone polymer donor. Journal of Semiconductors, 2021, 42, 070501.	2.0	14
16	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. Journal of Semiconductors, 2021, 42, 010501.	2.0	158
17	A wide-bandgap copolymer donor with a 5-methyl-4H-dithieno[3,2-e:2',3'-g]isoindole-4,6(5H)-dione unit. Journal of Semiconductors, 2021, 42, 100502.	2.0	6
18	18% Efficiency organic solar cells. Science Bulletin, 2020, 65, 272-275.	4.3	2,380

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19	Effects of Oxygen Atoms Introduced at Different Positions of Non-Fullerene Acceptors in the Performance of Organic Solar Cells with Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2020, 12, 1094-1102.	4.0	39
20	A 2.16ÂeV bandgap polymer donor gives 16% power conversion efficiency. Science Bulletin, 2020, 65, 179-181.	4.3	75
21	Over 16% efficiency from thick-film organic solar cells. Science Bulletin, 2020, 65, 1979-1982.	4.3	62
22	Fused-ring bislactone building blocks for polymer donors. Science Bulletin, 2020, 65, 1792-1795.	4.3	35
23	Multiple conformation locks gift polymer donor high efficiency. Nano Energy, 2020, 77, 105161.	8.2	33
24	Filterâ€Free Bandâ€Selective Organic Photodetectors. Advanced Optical Materials, 2020, 8, 2001388.	3.6	63
25	Thermodynamic Properties and Molecular Packing Explain Performance and Processing Procedures of Three D18:NFA Organic Solar Cells. Advanced Materials, 2020, 32, e2005386.	11.1	130
26	An Electrically Modulated Singleâ€Color/Dualâ€Color Imaging Photodetector. Advanced Materials, 2020, 32, e1907257.	11.1	145
27	Fused-ring phenazine building blocks for efficient copolymer donors. Materials Chemistry Frontiers, 2020, 4, 1454-1458.	3.2	21
28	Enhanced efficiency and stability of nonfullerene ternary polymer solar cells based on a spontaneously assembled active layer: the role of a high mobility small molecular electron acceptor. Journal of Materials Chemistry C, 2020, 8, 6196-6202.	2.7	22
29	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	4.2	158
30	An efficient medium-bandgap nonfullerene acceptor for organic solar cells. Journal of Materials Chemistry A, 2020, 8, 8857-8861.	5.2	17
31	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 48095-48102.	4.0	30
32	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. Science Bulletin, 2019, 64, 1743-1746.	4.3	51
33	A Wide-Band Gap Copolymer Donor for Efficient Fullerene-Free Solar Cells. ACS Omega, 2019, 4, 14800-14804.	1.6	4
34	Functionality of Nonâ€Fullerene Electron Acceptors in Ternary Organic Solar Cells. Solar Rrl, 2019, 3, 1900322.	3.1	26
35	5H-dithieno[3,2-b:2â€²,3â€²-d]pyran-5-one unit yields efficient wide-bandgap polymer donors. Science Bulletin, 2019, 64, 1655-1657.	4.3	55
36	Thiolactone copolymer donor gifts organic solar cells a 16.72% efficiency. Science Bulletin, 2019, 64, 1573-1576.	4.3	140

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37	Alkoxythiophene and alkylthiothiophene Ï€-bridges enhance the performance of Aâ€“Dâ€“A electron acceptors. Materials Chemistry Frontiers, 2019, 3, 492-495.	3.2	21
38	High-performance wide-bandgap copolymers with dithieno[3,2-<i>b</i>:2â€²,3â€²-<i>d</i>]pyridin-5(4<i>H</i>)-one units. Materials Chemistry Frontiers, 2019, 3, 399-402.	3.2	18
39	Induced J-aggregation in acceptor alloy enhances photocurrent. Science Bulletin, 2019, 64, 1083-1086.	4.3	43
40	Elevated Stability and Efficiency of Solar Cells via Ordered Alloy Co-Acceptors. ACS Energy Letters, 2019, 4, 1106-1114.	8.8	62
41	Correlating the electron-donating core structure with morphology and performance of carbon oxygen-bridged ladder-type non-fullerene acceptor based organic solar cells. Nano Energy, 2019, 61, 318-326.	8.2	43
42	Visible to Nearâ€Infrared Photodetection Based on Ternary Organic Heterojunctions. Advanced Functional Materials, 2019, 29, 1808948.	7.8	95
43	Comparative analysis of burn-in photo-degradation in non-fullerene COi8DFIC acceptor based high-efficiency ternary organic solar cells. Materials Chemistry Frontiers, 2019, 3, 1085-1096.	3.2	31
44	A wide-bandgap copolymer donor based on a phenanthridin-6(5<i>H</i>)-one unit. Materials Chemistry Frontiers, 2019, 3, 2686-2689.	3.2	6
45	Enhancing the efficiency of PTB7-Th:CO<i>i</i>8DFIC-based ternary solar cells with versatile third components. Applied Physics Reviews, 2019, 6, .	5.5	20
46	Suppressing photo-oxidation of non-fullerene acceptors and their blends in organic solar cells by exploring material design and employing friendly stabilizers. Journal of Materials Chemistry A, 2019, 7, 25088-25101.	5.2	107
47	Molecular Order Control of Non-fullerene Acceptors for High-Efficiency Polymer Solar Cells. Joule, 2019, 3, 819-833.	11.7	209
48	Carbonâ€“Oxygenâ€Bridged Ladderâ€Type Building Blocks for Highly Efficient Nonfullerene Acceptors. Advanced Materials, 2019, 31, e1804790.	11.1	139
49	A Thieno[3,2â€c]Isoquinolinâ€5(4H)â€One Building Block for Efficient Thickâ€Film Solar Cells. Advanced Energy Materials, 2018, 8, 1800397.	10.2	35
50	Thermostable single-junction organic solar cells with a power conversion efficiency of 14.62%. Science Bulletin, 2018, 63, 340-342.	4.3	260
51	A carbonâ€“oxygen-bridged hexacyclic ladder-type building block for low-bandgap nonfullerene acceptors. Materials Chemistry Frontiers, 2018, 2, 700-703.	3.2	41
52	Simultaneously improved efficiency and average visible transmittance of semitransparent polymer solar cells with two ultra-narrow bandgap nonfullerene acceptors. Journal of Materials Chemistry A, 2018, 6, 21485-21492.	5.2	80
53	NIR to Visible Light Upconversion Devices Comprising an NIR Charge Generation Layer and a Perovskite Emitter. Advanced Optical Materials, 2018, 6, 1801084.	3.6	55
54	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. Advanced Energy Materials, 2018, 8, 1801968.	10.2	167

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55	A heptacyclic carbonâ€“oxygen-bridged ladder-type building block for Aâ€“Dâ€“A acceptors. Materials Chemistry Frontiers, 2018, 2, 1716-1719.	3.2	34
56	Organic and solution-processed tandem solar cells with 17.3% efficiency. Science, 2018, 361, 1094-1098.	6.0	2,262
57	Understanding the side-chain effects on Aâ€“Dâ€“A acceptors: in-plane and out-of-plane. Materials Chemistry Frontiers, 2018, 2, 1563-1567.	3.2	16
58	A Highâ€Performance Dâ€“A Copolymer Based on Dithieno[3,2â€b:2â€²,3â€²â€d]Pyridinâ€5(4H)â€One Unit Compatible with Fullerene and Nonfullerene Acceptors in Solar Cells. Advanced Energy Materials, 2017, 7, 1602509.	10.2	92
59	26â€¯mAâ€¯cmâˆ’2 Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. Science Bulletin, 2017, 62, 1494-1496.	4.3	368
60	A carbon-oxygen-bridged ladder-type building block for efficient donor and acceptor materials used in organic solar cells. Science Bulletin, 2017, 62, 1331-1336.	4.3	84
61	Ternary organic solar cells offer 14% power conversion efficiency. Science Bulletin, 2017, 62, 1562-1564.	4.3	665
62	Development of isomer-free fullerene bisadducts for efficient polymer solar cells. Energy and Environmental Science, 2016, 9, 2114-2121.	15.6	95
63	A pentacyclic aromatic lactam building block for efficient polymer solar cells. Energy and Environmental Science, 2013, 6, 3224.	15.6	143
64	Pushing Fullerene Absorption into the Nearâ€IR Region by Conjugately Fusing Oligothiophenes. Angewandte Chemie - International Edition, 2012, 51, 9038-9041.	7.2	77
65	Using Cyclopenta[2,1â€<i>b</i>:3,4â€<i>câ€²</i>]dithiopheneâ€4â€one as a Building Block for Lowâ€Bandgap Conjugated Copolymers Applied in Solar Cells. Macromolecular Rapid Communications, 2012, 33, 1574-1579.	2.0	16