Qunping Fan

List of Publications by Year
in descending order

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75	4,591	34	66
papers	citations	h-index	g-index
		117453	102304

75	75	75	2554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Allâ€polymer solar cells with over 16% efficiency and enhanced stability enabled by compatible solvent and polymer additives. Aggregate, 2022, 3, e58.	5.2	85
2	Near-infrared absorbing polymer acceptors enabled by selenophene-fused core and halogenated end-group for binary all-polymer solar cells with efficiency over 16%. Nano Energy, 2022, 92, 106718.	8.2	65
3	Highâ€Throughput Screening of Bladeâ€Coated Polymer:Polymer Solar Cells: Solvent Determines Achievable Performance. ChemSusChem, 2022, 15, .	3.6	9
4	Enabling high-performance, centimeter-scale organic solar cells through three-dimensional charge transport. Cell Reports Physical Science, 2022, , 100761.	2.8	4
5	Siloxane-functional small molecule acceptor for high-performance organic solar cells with 16.6% efficiency. Chemical Engineering Journal, 2022, 442, 136018.	6.6	8
6	16.3% Efficiency binary all-polymer solar cells enabled by a novel polymer acceptor with an asymmetrical selenophene-fused backbone. Science China Chemistry, 2022, 65, 309-317.	4.2	54
7	Enhancing the photovoltaic performance of chlorobenzene-cored unfused electron acceptors by introducing Sâ‹¯O noncovalent interaction. Chemical Engineering Journal, 2022, 446, 137375.	6.6	4
8	Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells. ACS Energy Letters, 2022, 7, 2196-2202.	8.8	34
9	Vinylene-Inserted Asymmetric Polymer Acceptor with Absorption Approaching 1000 nm for Versatile Applications in All-Polymer Solar Cells and Photomultiplication-Type Polymeric Photodetectors. ACS Applied Materials & Interfaces, 2022, 14, 26970-26977.	4.0	10
10	A Topâ€Down Strategy to Engineer ActiveLayer Morphology for Highly Efficient and Stable Allâ€Polymer Solar Cells. Advanced Materials, 2022, 34, .	11.1	41
11	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie, 2021, 133, 2352-2359.	1.6	21
12	Optimized Active Layer Morphologies via Ternary Copolymerization of Polymer Donors for 17.6â€‰% Efficiency Organic Solar Cells with Enhanced Fill Factor. Angewandte Chemie - International Edition, 2021, 60, 2322-2329.	7.2	138
13	Carboxylate substituted pyrazine: A simple and low-cost building block for novel wide bandgap polymer donor enables 15.3% efficiency in organic solar cells. Nano Energy, 2021, 82, 105679.	8.2	48
14	Nonconjugated Terpolymer Acceptors with Two Different Fused-Ring Electron-Deficient Building Blocks for Efficient All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 6442-6449.	4.0	28
15	High Efficiency (15.8%) All-Polymer Solar Cells Enabled by a Regioregular Narrow Bandgap Polymer Acceptor. Journal of the American Chemical Society, 2021, 143, 2665-2670.	6.6	245
16	Multiâ€Selenopheneâ€Containing Narrow Bandgap Polymer Acceptors for Allâ€Polymer Solar Cells with over 15â€‰% Efficiency and High Reproducibility. Angewandte Chemie, 2021, 133, 16071-16079.	1.6	6
17	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. Science China Chemistry, 2021, 64, 1380-1388.	4.2	51
18	Multiâ€Selenopheneâ€Containing Narrow Bandgap Polymer Acceptors for Allâ€Polymer Solar Cells with over 15â€‰% Efficiency and High Reproducibility. Angewandte Chemie - International Edition, 2021, 60, 15935-15943.	7.2	125

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19	Modulating Crystallinity and Miscibility via Sideâ€chain Variation Enable High Performance <scp>Allâ€Smallâ€Molecule</scp> Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 2147-2153.	2.6	21
20	13.4â€‰% Efficiency from Allâ€Smallâ€Molecule Organic Solar Cells Based on a Crystalline Donor with Chlorine and Trialkylsilyl Substitutions. ChemSusChem, 2021, 14, 3535-3543.	3.6	15
21	Optimizing the Alkyl Side-Chain Design of a Wide Band-Gap Polymer Donor for Attaining Nonfullerene Organic Solar Cells with High Efficiency Using a Nonhalogenated Solvent. Chemistry of Materials, 2021, 33, 5981-5990.	3.2	15
22	Ternary organic solar cells with improved efficiency and stability enabled by compatible dual-acceptor strategy. Organic Electronics, 2021, 96, 106227.	1.4	16
23	Polymer acceptors based on Y6 derivatives for all-polymer solar cells. Science Bulletin, 2021, 66, 1950-1953.	4.3	42
24	Enabling High Efficiency of Hydrocarbonâ€Solvent Processed Organic Solar Cells through Balanced Charge Generation and Nonâ€Radiative Loss. Advanced Energy Materials, 2021, 11, 2101768.	10.2	61
25	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	15.6	170
26	A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie, 2020, 132, 20007-20012.	1.6	16
27	A Nonâ€Conjugated Polymer Acceptor for Efficient and Thermally Stable Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 19835-19840.	7.2	105
28	Reducing energy loss via tuning energy levels of polymer acceptors for efficient all-polymer solar cells. Science China Chemistry, 2020, 63, 1785-1792.	4.2	32
29	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. ACS Energy Letters, 2020, 5, 2711-2720.	8.8	188
30	Lateral size reduction of graphene oxide preserving its electronic properties and chemical functionality. RSC Advances, 2020, 10, 29432-29440.	1.7	9
31	Mechanically Robust All-Polymer Solar Cells from Narrow Band Gap Acceptors with Hetero-Bridging Atoms. Joule, 2020, 4, 658-672.	11.7	279
32	Weak Makes It Powerful: The Role of Cognate Small Molecules as an Alloy Donor in 2D/1A Ternary Fullerene Solar Cells for Finely Tuned Hierarchical Morphology in Thick Active Layers. Small Methods, 2020, 4, 1900766.	4.6	19
33	10.13% Efficiency Allâ€Polymer Solar Cells Enabled by Improving the Optical Absorption of Polymer Acceptors. Solar Rrl, 2020, 4, 2000142.	3.1	45
34	Synthesis and photovoltaic properties of a small molecule acceptor with thienylenevinylene thiophene as Ï€ bridge. Dyes and Pigments, 2019, 160, 227-233.	2.0	10
35	Fluorinated Photovoltaic Materials for Highâ€Performance Organic Solar Cells. Chemistry - an Asian Journal, 2019, 14, 3085-3095.	1.7	66
36	A wide bandgap conjugated polymer donor based on alkoxyl-fluorophenyl substituted benzodithiophene for high performance non-fullerene polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 1307-1314.	5.2	24

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37	Non-fullerene organic solar cells based on a small molecule with benzo[1,2-c:4,5-c']dithiophene-4,8-dione as Ï€-bridge. Organic Electronics, 2019, 67, 175-180.	1.4	9
38	Nonhalogen solvent-processed polymer solar cells based on chlorine and trialkylsilyl substituted conjugated polymers achieve 12.8% efficiency. Journal of Materials Chemistry A, 2019, 7, 2351-2359.	5.2	71
39	Synergistic Effects of Sideâ€Chain Engineering and Fluorination on Small Molecule Acceptors to Simultaneously Broaden Spectral Response and Minimize Voltage Loss for 13.8% Efficiency Organic Solar Cells. Solar Rrl, 2019, 3, 1900169.	3.1	22
40	Overcoming the energy loss in asymmetrical non-fullerene acceptor-based polymer solar cells by halogenation of polymer donors. Journal of Materials Chemistry A, 2019, 7, 15404-15410.	5.2	39
41	Efficient as-cast semi-transparent organic solar cells with efficiency over 9% and a high average visible transmittance of 27.6%. Physical Chemistry Chemical Physics, 2019, 21, 10660-10666.	1.3	29
42	Highâ€Performance Nonfullerene Polymer Solar Cells Based on a Wideâ€Bandgap Polymer without Extra Treatment. Macromolecular Rapid Communications, 2019, 40, e1800660.	2.0	5
43	Chlorine substituted 2D-conjugated polymer for high-performance polymer solar cells with 13.1% efficiency via toluene processing. Nano Energy, 2018, 48, 413-420.	8.2	257
44	Significant enhancement of the photovoltaic performance of organic small molecule acceptors <i>via</i> side-chain engineering. Journal of Materials Chemistry A, 2018, 6, 7988-7996.	5.2	38
45	A narrow-bandgap donor polymer for highly efficient as-cast non-fullerene polymer solar cells with a high open circuit voltage. Organic Electronics, 2018, 58, 82-87.	1.4	22
46	Synthesis and photovoltaic properties of a simple non-fused small molecule acceptor. Organic Electronics, 2018, 58, 133-138.	1.4	30
47	Synergistic effect of fluorination on both donor and acceptor materials for high performance non-fullerene polymer solar cells with 13.5% efficiency. Science China Chemistry, 2018, 61, 531-537.	4.2	342
48	Highâ€Performance Asâ€Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. Advanced Materials, 2018, 30, 1704546.	11.1	233
49	High-performance organic solar cells based on a small molecule with thieno[3,2-b]thiophene as Ï€-bridge. Organic Electronics, 2018, 53, 273-279.	1.4	30
50	Use of two structurally similar small molecular acceptors enabling ternary organic solar cells with high efficiencies and fill factors. Energy and Environmental Science, 2018, 11, 3275-3282.	15.6	261
51	Efficient and thermally stable all-polymer solar cells based on a fluorinated wide-bandgap polymer donor with high crystallinity. Journal of Materials Chemistry A, 2018, 6, 16403-16411.	5.2	26
52	Wide Bandgap Random Terpolymers for High Efficiency Halogen-Free Solvent Processed Polymer Solar Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2018, 34, 1279-1285.	2.2	8
53	A 1,1â€²-vinylene-fused indacenodithiophene-based low bandgap polymer for efficient polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 5106-5114.	5.2	34
54	Selenium-Containing Medium Bandgap Copolymer for Bulk Heterojunction Polymer Solar Cells with High Efficiency of 9.8%. Chemistry of Materials, 2017, 29, 4811-4818.	3.2	60

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55	Two compatible nonfullerene acceptors with similar structures as alloy for efficient ternary polymer solar cells. Nano Energy, 2017, 38, 510-517.	8.2	149
56	Side-chain engineering for efficient non-fullerene polymer solar cells based on a wide-bandgap polymer donor. Journal of Materials Chemistry A, 2017, 5, 9204-9209.	5.2	76
57	Highâ€Performance Nonâ€Fullerene Polymer Solar Cells Based on Fluorine Substituted Wide Bandgap Copolymers Without Extra Treatments. Solar Rrl, 2017, 1, 1700020.	3.1	107
58	High-performance nonfullerene polymer solar cells based on a fluorinated wide bandgap copolymer with a high open-circuit voltage of 1.04 V. Journal of Materials Chemistry A, 2017, 5, 22180-22185.	5.2	68
59	High-performance nonfullerene polymer solar cells with open-circuit voltage over 1 V and energy loss as low as 0.54 eV. Nano Energy, 2017, 40, 20-26.	8.2	70
60	Efficient polymer solar cells based on a new quinoxaline derivative with fluorinated phenyl side chain. Journal of Materials Chemistry C, 2016, 4, 2606-2613.	2.7	44
61	Fluorination as an effective tool to increase the photovoltaic performance of indacenodithiophene-alt-quinoxaline based wide-bandgap copolymers. Organic Electronics, 2016, 33, 128-134.	1.4	21
62	Efficient ternary blend all-polymer solar cells with a polythiophene derivative as a hole-cascade material. Journal of Materials Chemistry A, 2016, 4, 14752-14760.	5.2	91
63	Improved photovoltaic performance of Dâ€"Aâ€"D-type small molecules with isoindigo and pyrene units by inserting different Ï€-conjugated bridge. Tetrahedron, 2016, 72, 4543-4549.	1.0	5
64	A New Polythiophene Derivative for High Efficiency Polymer Solar Cells with PCE over 9%. Advanced Energy Materials, 2016, 6, 1600430.	10.2	84
65	Enhancing the photovoltaic properties of low bandgap terpolymers based on benzodithiophene and phenanthrophenazine by introducing different second acceptor units. Polymer Chemistry, 2016, 7, 1747-1755.	1.9	20
66	Synthesis and photovoltaic performance of DPP-based small molecules with tunable energy levels by altering the molecular terminals. Dyes and Pigments, 2016, 125, 151-158.	2.0	20
67	Polymer light-emitting devices based on europium(III) complex with 11-bromo-dipyrido[3,2-a:2â€²,3â€²-c]phenazine. Science China Chemistry, 2015, 58, 1152-1158.	4.2	5
68	Acceptor-donor-acceptor small molecules containing benzo[1,2- b :4,5- b ']dithiophene and rhodanine units for solution processed organic solar cells. Dyes and Pigments, 2015, 116, 13-19.	2.0	31
69	Benzodithiophene-based two-dimensional polymers with extended conjugated thienyltriphenylamine substituents for high-efficiency polymer solar cells. Organic Electronics, 2015, 23, 124-132.	1.4	16
70	Enhancing the photovoltaic properties of terpolymers containing benzo[1,2-b:4,5-bâ€²]dithiophene, phenanthro[4,5-abc]phenazine and benzo[c][1,2,5]thiadiazole by changing the substituents. Journal of Materials Chemistry C, 2015, 3, 6240-6248.	2.7	40
71	Synthesis and photovoltaic properties of two star-shaped molecules involving phenylquinoxaline as core and triphenylamine and thiophene units as arms. Synthetic Metals, 2015, 204, 25-31.	2.1	7
72	Improved photovoltaic performance of a 2D-conjugated benzodithiophene-based polymer by the side chain engineering of quinoxaline. Polymer Chemistry, 2015, 6, 4290-4298.	1.9	29

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73	Significantly increasing open-circuit voltage of the benzo[1,2-b:4,5-bâ€²]dithiophene-alt-5,8-dithienyl-quinoxaline copolymers based PSCs by appending dioctyloxy chains at 6,7-positions of quinoxaline. Organic Electronics, 2015, 17, 129-137.	1.4	28
74	Improved Photovoltaic Performance of a Sideâ€Chain Dâ€"A Polymer in Polymer Solar Cells by Shortening the Phenyl Spacer between the D and A Units. Macromolecular Chemistry and Physics, 2014, 215, 2075-2083.	1.1	11
75	Donorâ€"acceptor copolymers based on benzo[1,2- b :4,5- b â€²]dithiophene and pyrene-fused phenazine for high-performance polymer solar cells. Organic Electronics, 2014, 15, 3375-3383.	1.4	44