

# Shaoqing Zhang

## List of Publications by Year in descending order

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135  
papers

25,809  
citations

15504

65  
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12272

133  
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137  
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137  
docs citations

137  
times ranked

11393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer solar cells with enhanced open-circuit voltage and efficiency. <i>Nature Photonics</i> , 2009, 3, 649-653.	31.4	3,015
2	Molecular Optimization Enables over 13% Efficiency in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 7148-7151.	13.7	2,524
3	Fullerene-Free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. <i>Advanced Materials</i> , 2016, 28, 4734-4739.	21.0	1,698
4	Over 16% efficiency organic photovoltaic cells enabled by a chlorinated acceptor with increased open-circuit voltages. <i>Nature Communications</i> , 2019, 10, 2515.	12.8	1,431
5	Energy-Level Modulation of Small-Molecule Electron Acceptors to Achieve over 12% Efficiency in Polymer Solar Cells. <i>Advanced Materials</i> , 2016, 28, 9423-9429.	21.0	1,307
6	Molecular Design of Benzodithiophene-Based Organic Photovoltaic Materials. <i>Chemical Reviews</i> , 2016, 116, 7397-7457.	47.7	998
7	Over 14% Efficiency in Polymer Solar Cells Enabled by a Chlorinated Polymer Donor. <i>Advanced Materials</i> , 2018, 30, e1800868.	21.0	979
8	Replacing Alkoxy Groups with Alkylthienyl Groups: A Feasible Approach To Improve the Properties of Photovoltaic Polymers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9697-9702.	13.8	926
9	Design, Application, and Morphology Study of a New Photovoltaic Polymer with Strong Aggregation in Solution State. <i>Macromolecules</i> , 2012, 45, 9611-9617.	4.8	664
10	Over 14% Efficiency in Organic Solar Cells Enabled by Chlorinated Nonfullerene Small-Molecule Acceptors. <i>Advanced Materials</i> , 2018, 30, e1800613.	21.0	623
11	Highly Efficient 2D-Conjugated Benzodithiophene-Based Photovoltaic Polymer with Linear Alkylthio Side Chain. <i>Chemistry of Materials</i> , 2014, 26, 3603-3605.	6.7	531
12	A Potential Perylene Diimide Dimer-Based Acceptor Material for Highly Efficient Solution-Processed Non-Fullerene Organic Solar Cells with 4.03% Efficiency. <i>Advanced Materials</i> , 2013, 25, 5791-5797.	21.0	444
13	Fine-Tuned Photoactive and Interconnection Layers for Achieving over 13% Efficiency in a Fullerene-Free Tandem Organic Solar Cell. <i>Journal of the American Chemical Society</i> , 2017, 139, 7302-7309.	13.7	427
14	Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. <i>Nature Energy</i> , 2019, 4, 768-775.	39.5	407
15	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. <i>Advanced Materials</i> , 2018, 30, e1801801.	21.0	360
16	Ternary Polymer Solar Cells based on Two Acceptors and One Donor for Achieving 12.2% Efficiency. <i>Advanced Materials</i> , 2017, 29, 1604059.	21.0	333
17	Realizing over 10% efficiency in polymer solar cell by device optimization. <i>Science China Chemistry</i> , 2015, 58, 248-256.	8.2	311
18	Breaking the 10% Efficiency Barrier in Organic Photovoltaics: Morphology and Device Optimization of Well-Known PBDTTT Polymers. <i>Advanced Energy Materials</i> , 2016, 6, 1502529.	19.5	285

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19	PBDB-T and its derivatives: A family of polymer donors enables over 17% efficiency in organic photovoltaics. <i>Materials Today</i> , 2020, 35, 115-130.	14.2	269
20	Manipulating Aggregation and Molecular Orientation in All-Polymer Photovoltaic Cells. <i>Advanced Materials</i> , 2015, 27, 6046-6054.	21.0	264
21	New Wide Band Gap Donor for Efficient Fullerene-Free All-Small-Molecule Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 1958-1966.	13.7	260
22	Green-solvent-processable organic solar cells. <i>Materials Today</i> , 2016, 19, 533-543.	14.2	252
23	Remove the Residual Additives toward Enhanced Efficiency with Higher Reproducibility in Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14920-14928.	3.1	210
24	Completely non-fused electron acceptor with 3D-interpenetrated crystalline structure enables efficient and stable organic solar cell. <i>Nature Communications</i> , 2021, 12, 5093.	12.8	210
25	A Tandem Organic Photovoltaic Cell with 19.6% Efficiency Enabled by Light Distribution Control. <i>Advanced Materials</i> , 2021, 33, e2102787.	21.0	210
26	Significant Influence of the Methoxyl Substitution Position on Optoelectronic Properties and Molecular Packing of Small-Molecule Electron Acceptors for Photovoltaic Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700183.	19.5	184
27	Quenching to the Percolation Threshold in Organic Solar Cells. <i>Joule</i> , 2019, 3, 443-458.	24.0	183
28	Molecular design of a wide-band-gap conjugated polymer for efficient fullerene-free polymer solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 546-551.	30.8	180
29	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. <i>Science China Chemistry</i> , 2018, 61, 1328-1337.	8.2	177
30	Environmentally Friendly Solvent-Processed Organic Solar Cells that are Highly Efficient and Adaptable for the Blade-Coating Method. <i>Advanced Materials</i> , 2018, 30, 1704837.	21.0	173
31	MoOx and V2Ox as hole and electron transport layers through functionalized intercalation in normal and inverted organic optoelectronic devices. <i>Light: Science and Applications</i> , 2015, 4, e273-e273.	16.6	169
32	PBDTTTz: A Broad Band Gap Conjugated Polymer with High Photovoltaic Performance in Polymer Solar Cells. <i>Macromolecules</i> , 2011, 44, 4035-4037.	4.8	159
33	Molecular design of a non-fullerene acceptor enables a P3HT-based organic solar cell with 9.46% efficiency. <i>Energy and Environmental Science</i> , 2020, 13, 2864-2869.	30.8	158
34	Green-Solvent-Processed All-Polymer Solar Cells Containing a Perylene Diimide-Based Acceptor with an Efficiency over 6.5%. <i>Advanced Energy Materials</i> , 2016, 6, 1501991.	19.5	157
35	Two Well-Miscible Acceptors Work as One for Efficient Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1700437.	21.0	157
36	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 2129-2134.	6.7	157

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37	Application of Two-Dimensional Conjugated Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene in Quinoxaline-Based Photovoltaic Polymers. <i>Macromolecules</i> , 2012, 45, 3032-3038.	4.8	154
38	Over 11% Efficiency in Tandem Polymer Solar Cells Featured by a Low-Band-Gap Polymer with Fine-Tuned Properties. <i>Advanced Materials</i> , 2016, 28, 5133-5138.	21.0	144
39	A Fluorinated Polythiophene Derivative with Stabilized Backbone Conformation for Highly Efficient Fullerene and Non-Fullerene Polymer Solar Cells. <i>Macromolecules</i> , 2016, 49, 2993-3000.	4.8	141
40	15.3% efficiency all-small-molecule organic solar cells enabled by symmetric phenyl substitution. <i>Science China Materials</i> , 2020, 63, 1142-1150.	6.3	140
41	A Thiadiazole-Based Conjugated Polymer with Ultradeep HOMO Level and Strong Electroluminescence Enables 18.6% Efficiency in Organic Solar Cell. <i>Advanced Energy Materials</i> , 2021, 11, 2101705.	19.5	125
42	Toward Efficient Polymer Solar Cells Processed by a Solution-Processed Layer-by-Layer Approach. <i>Advanced Materials</i> , 2018, 30, e1802499.	21.0	116
43	Enhanced Efficiency in Fullerene-Free Polymer Solar Cell by Incorporating Fine-designed Donor and Acceptor Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9274-9280.	8.0	110
44	Highly Efficient Photovoltaic Polymers Based on Benzodithiophene and Quinoxaline with Deeper HOMO Levels. <i>Macromolecules</i> , 2015, 48, 5172-5178.	4.8	104
45	Enhanced Photovoltaic Performance of Diketopyrrolopyrrole (DPP)-Based Polymers with Extended $\pi$ Conjugation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9550-9557.	3.1	103
46	Achieving 12.8% Efficiency by Simultaneously Improving Open-Circuit Voltage and Short-Circuit Current Density in Tandem Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606340.	21.0	100
47	A universal halogen-free solvent system for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12723-12729.	10.3	97
48	Enhanced charge extraction in organic solar cells through electron accumulation effects induced by metal nanoparticles. <i>Energy and Environmental Science</i> , 2013, 6, 3372.	30.8	95
49	Molecular Design and Morphology Control Towards Efficient Polymer Solar Cells Processed using Non-aromatic and Non-chlorinated Solvents. <i>Advanced Materials</i> , 2014, 26, 2744-2749.	21.0	95
50	Improved Domain Size and Purity Enables Efficient All-Small-Molecule Ternary Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703777.	21.0	94
51	Room-temperature solution-processed molybdenum oxide as a hole transport layer with Ag nanoparticles for highly efficient inverted organic solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6614.	10.3	89
52	Manipulation of Domain Purity and Orientational Ordering in High Performance All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 6178-6185.	6.7	87
53	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15887-15894.	10.3	83
54	Realizing 11.3% efficiency in fullerene-free polymer solar cells by device optimization. <i>Science China Chemistry</i> , 2016, 59, 1574-1582.	8.2	78

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55	Selecting a Donor Polymer for Realizing Favorable Morphology in Efficient Nonfullerene Acceptor-based Solar Cells. <i>Small</i> , 2014, 10, 4658-4663.	10.0	76
56	A Wide Bandgap Polymer with Strong $\pi$ - $\pi$ Interaction for Efficient Fullerene-free Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600742.	19.5	76
57	Recent advances in non-fullerene organic solar cells: from lab to fab. <i>Chemical Communications</i> , 2020, 56, 14337-14352.	4.1	75
58	High-Efficiency Nonfullerene Organic Solar Cells Enabled by 1000 nm Thick Active Layers with a Low Trap-State Density. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18777-18784.	8.0	74
59	High Efficiency Organic Solar Cells Achieved by the Simultaneous Plasmon-Optical and Plasmon-Electrical Effects from Plasmonic Asymmetric Modes of Gold Nanostars. <i>Small</i> , 2016, 12, 5200-5207.	10.0	73
60	Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901823.	19.5	72
61	A ternary organic solar cell with 300 nm thick active layer shows over 14% efficiency. <i>Science China Chemistry</i> , 2020, 63, 21-27.	8.2	72
62	A High-Performance Nonfused Wide-Bandgap Acceptor for Versatile Photovoltaic Applications. <i>Advanced Materials</i> , 2022, 34, e2108090.	21.0	71
63	Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells. <i>National Science Review</i> , 2021, 8, nwab031.	9.5	70
64	Ultrathin Polyaniline-based Buffer Layer for Highly Efficient Polymer Solar Cells with Wide Applicability. <i>Scientific Reports</i> , 2014, 4, 6570.	3.3	69
65	Enhancing the Performance of the Half Tin and Half Lead Perovskite Solar Cells by Suppression of the Bulk and Interfacial Charge Recombination. <i>Advanced Materials</i> , 2018, 30, e1803703.	21.0	65
66	Progress in Organic Solar Cells: Materials, Physics and Device Engineering. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2607-2625.	4.9	62
67	Fluidic Manipulating of Printable Zinc Oxide for Flexible Organic Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2106453.	21.0	62
68	Enhanced efficiency of polymer photovoltaic cells via the incorporation of a water-soluble naphthalene diimide derivative as a cathode interlayer. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9565-9571.	5.5	60
69	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15988-15994.	13.8	60
70	Correlations among Chemical Structure, Backbone Conformation, and Morphology in Two Highly Efficient Photovoltaic Polymer Materials. <i>Macromolecules</i> , 2016, 49, 120-126.	4.8	59
71	Control of Mesoscale Morphology and Photovoltaic Performance in Diketopyrrolopyrrole-Based Small Band Gap Terpolymers. <i>Advanced Energy Materials</i> , 2017, 7, 1601138.	19.5	59
72	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3570-3576.	10.3	58

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73	A Universal Nonhalogenated Polymer Donor for High-Performance Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2022, 34, e2105803.	21.0	53
74	Subtle side-chain tuning on terminal groups of small molecule electron acceptors for efficient fullerene-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15175-15182.	10.3	52
75	A Novel Wide-Bandgap Polymer with Deep Ionization Potential Enables Exceeding 16% Efficiency in Ternary Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1910466.	14.9	50
76	Influence of the backbone conformation of conjugated polymers on morphology and photovoltaic properties. <i>Polymer Chemistry</i> , 2014, 5, 1976-1981.	3.9	48
77	A polymer design strategy toward green solvent processed efficient non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4324-4330.	10.3	48
78	The Effect of Processing Additives on Energetic Disorder in Highly Efficient Organic Photovoltaics: A Case Study on PBDTTT-C <sub>60</sub> :PC <sub>71</sub> BM. <i>Advanced Materials</i> , 2015, 27, 3868-3873.	21.0	46
79	Benzodifuran-alt-thienothiophene based low band gap copolymers: substituent effects on their molecular energy levels and photovoltaic properties. <i>Polymer Chemistry</i> , 2013, 4, 3047.	3.9	45
80	Competition between morphological attributes in the thermal annealing and additive processing of polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5023.	5.5	44
81	Over 1.1 eV Workfunction Tuning of Cesium Intercalated Metal Oxides for Functioning as Both Electron and Hole Transport Layers in Organic Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2014, 24, 7348-7356.	14.9	44
82	Dialkylthio Substitution: An Effective Method to Modulate the Molecular Energy Levels of 2D-BDT Photovoltaic Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 3575-3583.	8.0	43
83	A Self-Organized Poly(vinylpyrrolidone)-Based Cathode Interlayer in Inverted Fullerene-Free Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1804657.	21.0	43
84	Achieving over 10% Efficiency in Poly(3-hexylthiophene)-Based Organic Solar Cells via Solid Additives. <i>ChemSusChem</i> , 2021, 14, 3607-3613.	6.8	43
85	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <i>Science China Materials</i> , 2015, 58, 953-960.	6.3	41
86	Molecular design toward efficient polymer solar cells processed by green solvents. <i>Polymer Chemistry</i> , 2015, 6, 4089-4095.	3.9	41
87	Self-Assembled Quasi-3D Nanocomposite: A Novel p-Type Hole Transport Layer for High Performance Inverted Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1706403.	14.9	39
88	Printable SnO <sub>2</sub> cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 957-965.	8.2	38
89	Low-cost and efficient organic solar cells based on polythiophene and poly(thiophene) Tj ETQq1 1 0.784314 r <sub>g</sub> BT /Overlock 10 Tf 50	9.9	38
90	Optimization of side chains in alkylthiophene-substituted benzo[1,2-b:4,5-b']dithiophene-based photovoltaic polymers. <i>Polymer Chemistry</i> , 2015, 6, 2752-2760.	3.9	37

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91	Rational selection of solvents and fine tuning of morphologies toward highly efficient polymer solar cells fabricated using green solvents. <i>RSC Advances</i> , 2015, 5, 69567-69572.	3.6	37
92	Highly efficient planar perovskite solar cells achieved by simultaneous defect engineering and formation kinetic control. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23865-23874.	10.3	37
93	Investigations of the Conjugated Polymers Based on Dithienogermole (DTG) Units for Photovoltaic Applications. <i>Macromolecules</i> , 2014, 47, 5558-5565.	4.8	34
94	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , 2017, 60, 697-706.	6.3	33
95	Low-cost and high-performance poly(thienylene vinylene) derivative donor for efficient versatile organic photovoltaic cells. <i>Nano Energy</i> , 2022, 100, 107463.	16.0	33
96	Toward reliable and accurate evaluation of polymer solar cells based on low band gap polymers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 564-569.	5.5	32
97	Investigation of Conjugated Polymers Based on Naphtho[2,3- <i>c</i> ]thiophene-4,9-dione in Fullerene-Based and Fullerene-Free Polymer Solar Cells. <i>Macromolecules</i> , 2017, 50, 1453-1462.	4.8	32
98	An Easily Accessible Cathode Buffer Layer for Achieving Multiple High Performance Polymer Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27322-27329.	3.1	30
99	The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. <i>Polymer Chemistry</i> , 2020, 11, 1629-1636.	3.9	30
100	Fluorination strategy enables greatly improved performance for organic solar cells based on polythiophene derivatives. <i>Chinese Chemical Letters</i> , 2021, 32, 2274-2278.	9.0	30
101	A Switchable Interconnecting Layer for High Performance Tandem Organic Solar Cell. <i>Advanced Energy Materials</i> , 2017, 7, 1701164.	19.5	29
102	Efficient Fullerene-Free Polymer Solar Cells Based on Alkylthio Substituted Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4825-4833.	3.1	28
103	Vacuum-assisted annealing method for high efficiency printable large-area polymer solar cell modules. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3206-3211.	5.5	27
104	Design of wide-bandgap polymers with deeper ionization potential enables efficient ternary non-fullerene polymer solar cells with 13% efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14153-14162.	10.3	27
105	Miscibility Control by Tuning Electrostatic Interactions in Bulk Heterojunction for Efficient Organic Solar Cells. , 2021, 3, 1276-1283.		26
106	Electroluminescent and Photovoltaic Properties of the Crosslinkable Poly(phenylene vinylene) Derivative with Side Chains Containing Vinyl Groups. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1311-1318.	2.2	24
107	Low band-gap conjugated polymer based on diketopyrrolopyrrole units and its application in organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10416-10423.	10.3	23
108	Influence of the replacement of alkoxy with alkylthienyl on photovoltaic properties of two small molecule donors for organic solar cells. <i>Science China Chemistry</i> , 2017, 60, 1340-1348.	8.2	23

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109	Suppressing trap states and energy loss by optimizing vertical phase distribution through ternary strategy in organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 599-607.	8.2	22
110	PTV-based p-type organic semiconductors: Candidates for low-cost photovoltaic donors with simple synthetic routes. <i>Polymer</i> , 2020, 209, 122900.	3.8	21
111	An inorganic molecule-induced electron transfer complex for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5580-5586.	10.3	21
112	Optimization of active layer morphology by small-molecule donor design enables over 15% efficiency in small-molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13653-13660.	10.3	21
113	Optimizing polymer aggregation and blend morphology for boosting the photovoltaic performance of polymer solar cells via a random terpolymerization strategy. <i>Journal of Energy Chemistry</i> , 2021, 59, 30-37.	12.9	20
114	Modulation of terminal alkyl chain length enables over 15% efficiency in small-molecule organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 1200-1207.	8.2	20
115	Influence of Large Steric Hinderance Substituent Position on Conformation and Charge Transfer Process for Non-fused Ring Acceptors. <i>Small Methods</i> , 2022, 6, e2200007.	8.6	20
116	Terthiophene based non-fused electron acceptors for efficient organic solar cells. <i>Organic Electronics</i> , 2022, 105, 106512.	2.6	17
117	A thieno[3,4-f]isoindole-5,7-dione based copolymer for polymer solar cells. <i>Polymer Chemistry</i> , 2013, 4, 536-541.	3.9	15
118	Study of photovoltaic performances for asymmetrical and symmetrical chlorinated thiophene-bridge-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2301-2306.	5.5	15
119	Quantifying $V_{oc}$ loss induced by alkyl pendants of acceptors in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12568-12577.	5.5	14
120	Effects on the photovoltaic properties of copolymers with five-membered chalcogen-heterocycle bridges. <i>Polymer Chemistry</i> , 2020, 11, 5019-5028.	3.9	13
121	Design of ultra-high luminescent polymers for organic photovoltaic cells with low energy loss. <i>Chemical Communications</i> , 2021, 57, 9132-9135.	4.1	12
122	Effectively Improving Extinction Coefficient of Benzodithiophene and Benzodithiophenedione-based Photovoltaic Polymer by Grafting Alkylthio Functional Groups. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2650-2655.	3.3	11
123	Effect of solvent additive on active layer morphologies and photovoltaic performance of polymer solar cells based on PBDTTT-C-T/PC71BM. <i>RSC Advances</i> , 2016, 6, 51924-51931.	3.6	11
124	Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021, 133, 16124-16130.	2.0	11
125	Modulation of Building Block Size in Conjugated Polymers with A Structure for Polymer Solar Cells. <i>Macromolecules</i> , 2019, 52, 7929-7938.	4.8	10
126	Increased conjugated backbone twisting to improve carbonylated-functionalized polymer photovoltaic performance. <i>Organic Chemistry Frontiers</i> , 2020, 7, 261-266.	4.5	10



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127	Enhanced photovoltaic effect from naphtho[2,3- <i>c</i> ]thiophene-4,9-dione-based polymers through alkyl side chain induced backbone distortion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14706-14712.	10.3	10
128	Suppressing Energetic Disorder Enables Efficient Indoor Organic Photovoltaic Cells With a PTV Derivative. <i>Frontiers in Chemistry</i> , 2021, 9, 684241.	3.6	9
129	The investigations of two conjugated polymers that show distinctly different photovoltaic properties in polymer solar cells. <i>Organic Electronics</i> , 2017, 44, 42-49.	2.6	7
130	Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24184-24191.	8.0	7
131	Organic Solar Cells: High Efficiency Organic Solar Cells Achieved by the Simultaneous Plasmon-Optical and Plasmon-Electrical Effects from Plasmonic Asymmetric Modes of Gold Nanostars ( <i>Small</i> 37/2016). <i>Small</i> , 2016, 12, 5102-5102.	10.0	4
132	Realizing Green Solvent Processable Non-fullerene Organic Solar Cells by Modulating the Side Groups of Conjugated Polymers. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 1391-1398.	4.9	2
133	Organic Solar Cells: A Switchable Interconnecting Layer for High Performance Tandem Organic Solar Cell ( <i>Adv. Energy Mater.</i> 21/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	0
134	Solar Cells: Enhancing the Performance of the Half Tin and Half Lead Perovskite Solar Cells by Suppression of the Bulk and Interfacial Charge Recombination ( <i>Adv. Mater.</i> 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870263.	21.0	0
135	Over 13% Efficiency in Blade-coated Organic Solar Cells. , 0, , .		0