

Lie Chen

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151
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2,734
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29
h-index

41
g-index

159
ext. papers

3,248
ext. citations

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avg, IF

5.51
L-index

#	Paper	IF	Citations
151	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4580-4584	16.4	99
150	Alcohol-Soluble n-Type Conjugated Polyelectrolyte as Electron Transport Layer for Polymer Solar Cells. <i>Macromolecules</i> , 2015 , 48, 5578-5586	5.5	92
149	Introducing Fluorine and Sulfur Atoms into Quinoxaline-Based p-type Polymers To Gradually Improve the Performance of Fullerene-Free Organic Solar Cells. <i>ACS Macro Letters</i> , 2019 , 8, 743-748	6.6	65
148	Enhancing the grain size of organic halide perovskites by sulfonate-carbon nanotube incorporation in high performance perovskite solar cells. <i>Chemical Communications</i> , 2016 , 52, 5674-7	5.8	62
147	Nonhalogen Solvent-Processed Asymmetric Wide-Bandgap Polymers for Nonfullerene Organic Solar Cells with Over 10% Efficiency. <i>Advanced Functional Materials</i> , 2018 , 28, 1706517	15.6	57
146	A Terminally Tetrafluorinated Nonfullerene Acceptor for Well-Performing Alloy Ternary Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1805872	15.6	56
145	Large-Scale Stretchable Semiembedded Copper Nanowire Transparent Conductive Films by an Electrospinning Template. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26468-26475	9.5	55
144	Fluorobenzotriazole (FTAZ)-Based Polymer Donor Enables Organic Solar Cells Exceeding 12% Efficiency. <i>Advanced Functional Materials</i> , 2019 , 29, 1808828	15.6	53
143	Hole transport layers for organic solar cells: recent progress and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11478-11492	13	52
142	Self-Organized Hole Transport Layers Based on Polythiophene Diblock Copolymers for Inverted Organic Solar Cells with High Efficiency. <i>Chemistry of Materials</i> , 2013 , 25, 897-904	9.6	51
141	Nanostructured hybrid ZnO@CdS nanowalls grown in situ for inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1018-1027	7.1	47
140	Diketopyrrolopyrrole-based conjugated polymers as additives to optimize morphology for polymer solar cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 491-504	3.5	46
139	Guest-oriented non-fullerene acceptors for ternary organic solar cells with over 16.0% and 22.7% efficiencies under one-sun and indoor light. <i>Nano Energy</i> , 2020 , 75, 104896	17.1	46
138	Triple Dipole Effect from Self-Assembled Small-Molecules for High Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4852-60	24	46
137	Room temperature processed polymers for high-efficient polymer solar cells with power conversion efficiency over 9%. <i>Nano Energy</i> , 2017 , 37, 32-39	17.1	44
136	Cerium oxide as an efficient electron extraction layer for p-i-n structured perovskite solar cells. <i>Chemical Communications</i> , 2018 , 54, 471-474	5.8	44
135	Photovoltaic performance enhancement of P3HT/PCBM solar cells driven by incorporation of conjugated liquid crystalline rod-coil block copolymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3835-3845	7.1	42

134	Optimization of the Power Conversion Efficiency of Room Temperature-Fabricated Polymer Solar Cells Utilizing Solution Processed Tungsten Oxide and Conjugated Polyelectrolyte as Electrode Interlayer. <i>Advanced Functional Materials</i> , 2014 , 24, 3986-3995	15.6	41
133	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801214	21.8	40
132	Low Work-function Poly(3,4-ethylenedioxythiophene): Poly(styrene sulfonate) as Electron-transport Layer for High-efficient and Stable Polymer Solar Cells. <i>Scientific Reports</i> , 2015 , 5, 12839	4.9	39
131	Alkylsilyl Functionalized Copolymer Donor for Annealing-Free High Performance Solar Cells with over 11% Efficiency: Crystallinity Induced Small Driving Force. <i>Advanced Functional Materials</i> , 2018 , 28, 1800606	15.6	38
130	Universal and Versatile MoO ₃ -Based Hole Transport Layers for Efficient and Stable Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9930-9938	3.8	38
129	Enhanced Power-Conversion Efficiency in Inverted Bulk Heterojunction Solar Cells using Liquid-Crystal-Conjugated Polyelectrolyte Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19024-33	9.5	34
128	Fluorinated Reduced Graphene Oxide as an Efficient Hole-Transport Layer for Efficient and Stable Polymer Solar Cells. <i>ACS Omega</i> , 2017 , 2, 2010-2016	3.9	33
127	Non-halogenated solvent-processed single-junction polymer solar cells with 9.91% efficiency and improved photostability. <i>Nano Energy</i> , 2017 , 41, 27-34	17.1	33
126	Counterion induced facile self-doping and tunable interfacial dipoles of small molecular electrolytes for efficient polymer solar cells. <i>Nano Energy</i> , 2016 , 27, 492-498	17.1	33
125	n-Type conjugated electrolytes cathode interlayer with thickness-insensitivity for highly efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13807-13816	13	30
124	A green route to a novel hyperbranched electrolyte interlayer for nonfullerene polymer solar cells with over 11% efficiency. <i>Chemical Communications</i> , 2018 , 54, 563-566	5.8	30
123	Polyfluorene Electrolytes Interfacial Layer for Efficient Polymer Solar Cells: Controllably Interfacial Dipoles by Regulation of Polar Groups. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9821-8	9.5	29
122	N-type Self-Doping of Fluorinate Conjugated Polyelectrolytes for Polymer Solar Cells: Modulation of Dipole, Morphology, and Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1145-1153	9.5	28
121	In situ polymerization of ethylenedioxythiophene from sulfonated carbon nanotube templates: toward high efficiency ITO-free solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6645-6652	13	28
120	Crystallization and conformation engineering of solution-processed polymer transparent electrodes with high conductivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 382-389	7.1	27
119	Interface-induced face-on orientation of the active layer by self-assembled diblock conjugated polyelectrolytes for efficient organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18478-18489	13.27	27
118	Roll-to-Roll Production of Graphene Hybrid Electrodes for High-Efficiency, Flexible Organic Photoelectronics. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500445	4.6	27
117	Free Mesogen Assisted Assembly of the Star-shaped Liquid-crystalline Copolymer/Polyethylene Oxide Solid Electrolytes for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014 , 118, 33-40	6.7	26

116	Highly and homogeneously conductive conjugated polyelectrolyte hole transport layers for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14689-14696	13	24
115	Vertical Distribution to Optimize Active Layer Morphology for Efficient All-Polymer Solar Cells by J71 as a Compatibilizer. <i>Macromolecules</i> , 2019 , 52, 4359-4369	5.5	24
114	In Situ Formation of ZnO in Graphene: A Facile Way To Produce a Smooth and Highly Conductive Electron Transport Layer for Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16078-16085	8.5	24
113	N-Type Alcohol-Soluble Small Molecules as an Interfacial Layer for Efficient and Stable Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25887-25897	3.8	24
112	Recent progress in ternary organic solar cells based on solution-processed non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23096-23122	13	24
111	Random copolymerization realized high efficient polymer solar cells with a record fill factor near 80%. <i>Nano Energy</i> , 2019 , 61, 228-235	17.1	23
110	Deformable and flexible electrospun nanofiber-supported cross-linked gel polymer electrolyte membranes for high safety lithium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 22728-22734	3.7	22
109	Self-assembly of discotic liquid crystal decorated ZnO nanoparticles for efficient hybrid solar cells. <i>RSC Advances</i> , 2014 , 4, 3627-3632	3.7	22
108	Photovoltaics of donor-acceptor polymers based on benzodithiophene with lateral thiophenyl and fluorinated benzothiadiazole. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1506-1511	2.5	22
107	Luminescent mesogen jacketed poly(1-alkyne) bearing lateral terphenyl with hexyloxy tail. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 5679-5692	2.5	21
106	Sulfonate Poly(aryl ether sulfone)-Modified PEDOT:PSS as Hole Transport Layer and Transparent Electrode for High Performance Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1943-1952	3.8	20
105	Asymmetric Wide-Bandgap Polymers Simultaneously Improve the Open-Circuit Voltage and Short-Circuit Current for Organic Photovoltaics. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800406	4.8	20
104	Regulation of the Polar Groups in n-Type Conjugated Polyelectrolytes as Electron Transfer Layer for Inverted Polymer Solar Cells. <i>Macromolecules</i> , 2018 , 51, 8197-8204	5.5	20
103	A Novel Thiophene Derivative-based Conjugated Polymer for Polymer Solar Cells with High Open-circuit Voltage. <i>Chinese Journal of Chemistry</i> , 2012 , 30, 2219-2224	4.9	19
102	Control of the oxidation level of graphene oxide for high efficiency polymer solar cells. <i>RSC Advances</i> , 2015 , 5, 49182-49187	3.7	18
101	Liquid-crystalline ionic liquids modified conductive polymers as a transparent electrode for indium-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22316-22324	13	18
100	The effect of photocrosslinkable groups on thermal stability of bulk heterojunction solar cells based on donor-acceptor-conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4156-4166	2.5	18
99	Nanostructuring compatibilizers of block copolymers for organic photovoltaics. <i>Polymer International</i> , 2014 , 63, 593-606	3.3	17

98	Integration of light-harvesting complexes into the polymer bulk heterojunction P3HT/PCBM device for efficient photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7342		17
97	3-Dimensional ZnO/CdS nanocomposite with high mobility as an efficient electron transport layer for inverted polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12175-82	3.6	17
96	Amphiphilic fullerenes modified 1D ZnO arrayed nanorods/2D graphene hybrids as cathode buffer layers for inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10890-10899	13	16
95	Versatile MoS ₂ Nanosheets in ITO-Free and Semi-transparent Polymer Power-generating Glass. <i>Scientific Reports</i> , 2015 , 5, 12161	4.9	16
94	Can morphology tailoring based on functionalized fullerene nanostructures improve the performance of organic solar cells?. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18768		16
93	Novel Copolymers Based Tetrafluorobenzene and Difluorobenzothiadiazole For Organic Solar Cells with Prominent Open Circuit Voltage and Stability. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600556	4.8	15
92	Double Acceptor Block-Containing Copolymers with Deep HOMO Levels for Organic Solar Cells: Adjusting Carboxylate Substituent Position for Planarity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15853-15860	9.5	15
91	Self-assembled buffer layer from conjugated diblock copolymers with ethyleneoxide side chains for high efficiency polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8054-8064	7.1	15
90	A1-A2 Type Wide Bandgap Polymers for High-Performance Polymer Solar Cells: Energy Loss and Morphology. <i>Solar Rrl</i> , 2019 , 3, 1800291	7.1	15
89	Novel polymer acceptors achieving 10.18% efficiency for all-polymer solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 53, 63-68	12	15
88	A novel alkylsilyl-fused copolymer-based non-fullerene solar cell with over 12% efficiency. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4145-4152	13	14
87	Diketopyrrolopyrrole-based liquid crystalline conjugated donor-acceptor copolymers with reduced band gap for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 258-266	2.5	14
86	A novel planar D-A alternating copolymer with D-A integrated structures exhibiting H-aggregate behaviors for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 624-634	2.5	14
85	High-Performance Polymer Solar Cells Realized by Regulating the Surface Properties of PEDOT:PSS Interlayer from Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27018-27025	9.5	14
84	Solution-processed small molecules based on benzodithiophene and difluorobenzothiadiazole for inverted organic solar cells. <i>Polymer Chemistry</i> , 2015 , 6, 7726-7736	4.9	13
83	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1507-1518	7.8	13
82	A novel type of optically active helical liquid crystalline polymers: Synthesis and characterization of poly(p-phenylene)s containing terphenyl mesogen with different terminal groups. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4723-4735	2.5	13
81	Narrow band-gap materials with overlapping absorption simultaneously increase the open circuit voltage and average visible transmittance of semitransparent organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5711-5719	13	13

80	Fluorine-induced self-doping and spatial conformation in alcohol-soluble interlayers for highly-efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 423-433	13	13
79	A homogeneous ethanedithiol doped ZnO electron transporting layer for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8738-8744	7.1	12
78	In Situ Fabricating One-Dimensional Donor-Acceptor Core-Shell Hybrid Nanobeams Network Driven by Self-Assembly of Diblock Copolythiophenes. <i>Macromolecules</i> , 2014 , 47, 1757-1767	5.5	12
77	Inter-crosslinking through both donor and acceptor with unsaturated bonds for highly efficient and stable organic solar cells. <i>Polymer Chemistry</i> , 2013 , 4, 5637	4.9	12
76	Understanding the mechanism of poly(3-hexylthiophene)-b-poly(4-vinylpyridine) as a nanostructuring compatibilizer for improving the performance of poly(3-hexylthiophene)/ZnO-based hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10881	13	12
75	Mesogen-controlled ion channel of star-shaped hard-soft block copolymers for solid-state lithium-ion battery. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4341-4350	2.5	12
74	Enhanced Photoluminescence, Mesomorphism and Conformation of Liquid-Crystalline Conjugated Polymers with Terphenyl Mesogen Pendants. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 24-41	2.6	12
73	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19053-19057	16.4	12
72	Multi-Chlorine-Substituted Self-Assembled Molecules As Anode Interlayers: Tuning Surface Properties and Humidity Stability for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9204-9212	9.5	11
71	Improvement in the Efficiency of Alkylsilyl Functionalized Copolymer for Polymer Solar Cells: Face-On Orientation Enhanced by Random Copolymerization. <i>Solar Rrl</i> , 2019 , 3, 1900122	7.1	11
70	One-dimensional graphene nanoribbons hybridized with carbon nanotubes as cathode and anode interfacial layers for high performance solar cells. <i>RSC Advances</i> , 2015 , 5, 49614-49622	3.7	11
69	Post-Treatment-Free Main Chain Donor and Side Chain Acceptor (D-s-A) Copolymer for Efficient Nonfullerene Solar Cells with a Small Voltage Loss. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700706	4.8	11
68	Amphiphilic fullerene derivative as effective interfacial layer for inverted polymer solar cells. <i>Organic Electronics</i> , 2016 , 37, 35-41	3.5	11
67	Enhanced performance for organic bulk heterojunction solar cells by cooperative assembly of ter(ethylene oxide) pendants. <i>Polymer Chemistry</i> , 2014 , 5, 4480-4487	4.9	11
66	Novel photovoltaic donor 1-acceptor-donor 2-acceptor terpolymers with tunable energy levels based on a difluorinated benzothiadiazole acceptor. <i>RSC Advances</i> , 2015 , 5, 12087-12093	3.7	11
65	Novel Narrow Bandgap Terpolymer Donors Enables Record Performance for Semitransparent Organic Solar Cells Based on All-Narrow Bandgap Semiconductors. <i>Advanced Functional Materials</i> , 2018 , 28, 1806334	15.6	11
64	Non-halogenated-solvent-processed highly efficient organic solar cells with a record open circuit voltage enabled by noncovalently locked novel polymer donors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27394-27402	13	11
63	Bithiazole-based copolymer with deep HOMO level and noncovalent conformational lock for organic photovoltaics. <i>Organic Electronics</i> , 2019 , 64, 110-116	3.5	11

62	"Double-Acceptor-Type" Random Conjugated Terpolymer Donors for Additive-Free Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20741-20749	9.5	11
61	Additive-free non-fullerene organic solar cells with random copolymers as donors over 9% power conversion efficiency. <i>Chinese Chemical Letters</i> , 2019 , 30, 1161-1167	8.1	10
60	A rational comparison of the effects of halogen atoms incorporated into the polymer donors on the performance of polymer solar cells. <i>Organic Electronics</i> , 2019 , 70, 86-92	3.5	10
59	A Versatile Buffer Layer for Polymer Solar Cells: Rendering Surface Potential by Regulating Dipole. <i>Advanced Functional Materials</i> , 2015 , 25, 3164-3171	15.6	10
58	Solution processed and self-assembled polymerizable fullerenes/metal oxide as an interlayer for high efficient inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10282-10290	7.1	10
57	Novel phenanthrocarbazole based donor-acceptor random and alternating copolymers for photovoltaics. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4885-4893	2.5	10
56	Wide Band Gap Photovoltaic Polymer Based on Pyrrolo[3,4-f]benzotriazole-5,7-dione (TzBI) with Ultrahigh VOC Beyond 1.25 V. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19492-19498	3.8	10
55	Self-doped polymer with fluorinated phenylene as hole transport layer for efficient polymer solar cells. <i>Organic Electronics</i> , 2018 , 61, 207-214	3.5	10
54	Morphological optimization by rational matching of the donor and acceptor boosts the efficiency of alkylsilyl fused ring-based polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4847-4854	13	9
53	Printable Hole Transport Layer for 1.0 cm Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52028-52037	9.5	9
52	Dye-Incorporated Polynaphthalenediimide Acceptor for Additive-Free High-Performance All-Polymer Solar Cells. <i>Angewandte Chemie</i> , 2018 , 130, 4670-4674	3.6	9
51	Donor-acceptor-integrated conjugated polymers based on carbazole[3,4-c:5,6-c']bis[1,2,5]thiadiazole with tight π -stacking for photovoltaics. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 565-574	2.5	9
50	Structural similarity induced improvement in the performance of organic solar cells based on novel terpolymer donors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9238-9247	13	9
49	Cooperative assembly of pyrene-functionalized donor/acceptor blend for ordered nanomorphology by intermolecular noncovalent π -interactions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8115-23	9.5	8
48	Photoluminescent, liquid-crystalline, and electrochemical properties of para-phenylene-based alternating conjugated copolymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 434-442	2.5	8
47	Printable and stable all-polymer solar cells based on non-conjugated polymer acceptors with excellent mechanical robustness. <i>Science China Chemistry</i> , 2021 , 1	7.9	8
46	Versatile Molybdenum Isopropoxide for Efficient Mesoporous Perovskite Solar Cells: Simultaneously Optimized Morphology and Interfacial Engineering. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15089-15095	3.8	8
45	Crystallization and Optical Compensation by Fluorinated Rod Liquid Crystals for Ternary Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18462-18472	3.8	8

44	Optimization of perovskite by 3D twisted diketopyrrolopyrrole for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1179-1184	7.8	7
43	High charge mobility polymers based on a new di(thiophen-2-yl)thieno[3,2-b]thiophene for transistors and solar cells. <i>Polymer Chemistry</i> , 2015 , 6, 7684-7692	4.9	7
42	Alcohol-soluble interfacial fluorenes for inverted polymer solar cells: sequence induced spatial conformation dipole moment. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2219-29	3.6	7
41	Design of amphiphilic poly(vinylidene fluoride-co-hexafluoropropylene)-based gel electrolytes for high-performance lithium-ion batteries. <i>Ionics</i> , 2016 , 22, 1311-1318	2.7	7
40	Novel Donor-Acceptor Copolymers Based on Dithienosilole and Ketone Modified Thieno[3,4-b]thiophene for Photovoltaic Application. <i>Chinese Journal of Chemistry</i> , 2013 , 31, 1455-1462	4.9	7
39	Modulation of the molecular geometry of carbazolebis(thiadiazole)-based conjugated polymers for photovoltaic applications. <i>Polymer Chemistry</i> , 2013 , 4, 2480	4.9	7
38	Effects of substitution and terminal groups for liquid-crystallinity enhanced luminescence of disubstituted polyacetylenes carrying chromophoric terphenyl pendants. <i>Science China Chemistry</i> , 2010 , 53, 1302-1315	7.9	7
37	Recent Advances and Prospects of Small Molecular Organic Thermoelectric Materials.. <i>Small</i> , 2022 , e2200679		7
36	Thick polyfluorene-based polyelectrolytes realized by regulation of conjugated backbone as cathode interface layers for efficient polymer solar cells. <i>Journal of Power Sources</i> , 2019 , 423, 26-33	8.9	6
35	Reducing Energy Loss and Morphology Optimization Manipulated by Molecular Geometry Engineering for Hetero-junction Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1553-1559	4.9	6
34	In Situ Photocatalytically Heterostructured ZnO-Ag Nanoparticle Composites as Effective Cathode-Modifying Layers for Air-Processed Polymer Solar Cells. <i>Chemistry - A European Journal</i> , 2015 , 21, 11899-906	4.8	6
33	Self-assembly monolayers manipulate the power conversion processes in organic photovoltaics. <i>Journal of Power Sources</i> , 2019 , 409, 66-75	8.9	6
32	Oligomer-assisted Photoactive Layers Enable 18% Efficiency of Organic Solar Cells.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	6
31	Structure Evolution of Fluorinated Conjugated Polymers Based on Benzodithiophene and Benzothiadiazole for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8038-8045	3.8	5
30	Ternary thick active layer for efficient organic solar cells. <i>Journal of Materials Science</i> , 2018 , 53, 8398-8408	4.3	5
29	Vinyl-addition type norbornene copolymer containing sulfonated biphenyl pendant groups for proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2280-2289	2.9	5
28	Self-assembled diblock conjugated polyelectrolytes as electron transport layers for organic photovoltaics. <i>RSC Advances</i> , 2017 , 7, 24345-24352	3.7	5
27	N-Type Self-Doped Hyperbranched Conjugated Polyelectrolyte as Electron Transport Layer for Efficient Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50187-50198	8.5	5

26	Regulation of the Miscibility of the Active Layer by Random Terpolymer Acceptors to Realize High-Performance All-Polymer Solar Cells. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1923-1931	4.3	5
25	Over 70% Fill Factor of All-Polymer Solar Cells Guided by the Law of Similarity and Intermiscibility. <i>Solar Rrl</i> , 2021 , 5, 2100019	7.1	5
24	High efficiency of poly(3-hexylthiophene)/[6,6]-phenyl C61 butyric acid methyl ester bulk heterojunction solar cells through precrystallining of poly(3-hexylthiophene) based layer. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5986-93	9.5	4
23	Synthesis and properties of novel ferroelectric liquid crystalline polyacetylenes containing terphenyl mesogens with chiral groups. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 995-1006 ^{4.1}	4.1	4
22	Isomeric Effect of Wide Bandgap Polymer Donors with High Crystallinity to Achieve Efficient Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000454	4.8	4
21	Novel High-Efficiency Polymer Acceptors via Random Ternary Copolymerization Engineering Enables All-Polymer Solar Cells with Excellent Performance and Stability. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17892-17901	9.5	4
20	Novel efficient accptor1-acceptor2 type copolymer donors: Vinyl induced planar geometry and high performance organic solar cells. <i>Chemical Engineering Journal</i> , 2021 , 419, 129532	14.7	4
19	Alternating terpolymers based on tunable Bi-donors with manipulating energy levels and molecular geometry. <i>Chemical Research in Chinese Universities</i> , 2017 , 33, 305-311	2.2	3
18	Introducing Porphyrin Units by Random Copolymerization Into NDI-Based Acceptor for All Polymer Solar Cells. <i>Frontiers in Chemistry</i> , 2020 , 8, 310	5	3
17	Highly-efficient polymer solar cells realized by tailoring conjugated skeleton of alcohol-soluble conjugated electrolytes. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 644-651	6.4	3
16	Double acceptor block-based copolymers for efficient organic solar cells: side-chain and Ebridge engineered high open-circuit voltage and small driving force. <i>Polymer Chemistry</i> , 2019 , 10, 6227-6235	4.9	3
15	Rational Regulation of the Molecular Aggregation Enables A Facile Blade-Coating Process of Large-area All-Polymer Solar Cells with Record Efficiency.. <i>Small</i> , 2022 , e2200734	11	3
14	Compositional engineering of metal-xanthate precursors toward (Bi _{1-x} Sb _x) ₂ S ₃ (0 ≤ x ≤ 0.05) films with enhanced room temperature thermoelectric performance. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1718-1726	7.1	2
13	Alkylsilyl Fused Ring-Based Polymer Donor for Non-Fullerene Solar Cells with Record Open Circuit Voltage and Energy Loss. <i>Small</i> , 2021 , 17, e2104451	11	2
12	Modulating Chlorination Position on Polymer Donors for Highly Efficient Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100510	7.1	2
11	Thiophene with Oligoethylene Oxide Side Chain Enables Random Terpolymer Acceptor to Achieve Efficient All-Polymer Solar Cells. <i>ChemElectroChem</i> , 2021 , 8, 3936	4.3	2
10	Elastomers uploaded electrospun nanofibrous membrane as solid state polymer electrolytes for lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 82960-82967	3.7	1
9	Room temperature and non-halogenated solvent processed terpolymers for high-efficient polymer solar cells. <i>Dyes and Pigments</i> , 2021 , 186, 109023	4.6	1

8	A novel AIE molecule as a hole transport layer enables efficient and stable perovskite solar cells. <i>Chemical Communications</i> , 2021 , 57, 4015-4018	5.8	1
7	Thickness-Insensitive Anode Interface Layer for High-Efficiency Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39844-39853	9.5	1
6	Adjusting the Active Layer Morphology via an Amorphous Acceptor Solid Additive for Efficient and Stable Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2100532	7.1	1
5	Layer-by-Layer and Non-halogenated Solvent Processing of Benzodithiophene-Free Simple Polymer Donors for Organic Solar Cells. <i>Chemical Engineering Journal</i> , 2022 , 136515	14.7	1
4	Quasi-three-dimensional self-doped conjugated polyelectrolytes based on a triphenylamine skeleton for non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1029-1038	7.1	0
3	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2021 , 133, 19201-19205	3.6	0
2	Novel polymer donors based on simple A1-EA2 structure for non-halogen solvent-processed organic solar cells. <i>Dyes and Pigments</i> , 2021 , 196, 109817	4.6	0
1	Large-Area Flexible Organic Solar Cells 2022 , 405-453		0