

# Mingliang Sun

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Simple Phenyl Group Introduced at the Tail of Alkyl Side Chains of Small Molecular Acceptors: New Strategy to Balance the Crystallinity of Acceptors and Miscibility of Bulk Heterojunction Enabling Highly Efficient Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1807832.	11.1	187
2	High-Performance Photovoltaic Polymers Employing Symmetry-Breaking Building Blocks. <i>Advanced Materials</i> , 2016, 28, 8490-8498.	11.1	98
3	A universal halogen-free solvent system for highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12723-12729.	5.2	97
4	Challenges of prelithiation strategies for next generation high energy lithium-ion batteries. <i>Energy Storage Materials</i> , 2022, 47, 297-318.	9.5	74
5	Ultrathin Polyaniline-based Buffer Layer for Highly Efficient Polymer Solar Cells with Wide Applicability. <i>Scientific Reports</i> , 2014, 4, 6570.	1.6	69
6	Near-infrared response photovoltaic device based on novel narrow band gap small molecule and PCBM fabricated by solution processing. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1681-1687.	3.0	66
7	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.	2.7	60
8	Simple planar perovskite solar cells with a dopant-free benzodithiophene conjugated polymer as hole transporting material. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10070-10073.	2.7	60
9	A new isoindigo-based molecule with ideal energy levels for solution-processable organic solar cells. <i>Dyes and Pigments</i> , 2013, 98, 11-16.	2.0	59
10	A Fluorene-Oxadiazole Copolymer for White Light-Emitting Electrochemical Cells. <i>Macromolecules</i> , 2010, 43, 1714-1718.	2.2	58
11	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.	5.2	52
12	High efficiency solution-processed two-dimensional small molecule organic solar cells obtained via low-temperature thermal annealing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15904-15911.	5.2	48
13	Terpolymer Strategy toward High-Efficiency Polymer Solar Cells: Integrating Symmetric Benzodithiophene and Asymmetrical Thieno[2,3- <i>f</i> ]benzofuran Segments. <i>Chemistry of Materials</i> , 2019, 31, 6163-6173.	3.2	47
14	Synergistic effect of side-chain and backbone engineering in thieno[2,3- <i>f</i> ]benzofuran-based conjugated polymers for high performance non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 958-964.	5.2	46
15	Enhancement of photovoltaic performance by increasing conjugation of the acceptor unit in benzodithiophene and quinoxaline copolymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8047-8053.	2.7	44
16	Progress and trends of photodynamic therapy: From traditional photosensitizers to AIE-based photosensitizers. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 34, 102254.	1.3	43
17	Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene and benzotriazole based small molecule for solution-processed organic solar cells. <i>Organic Electronics</i> , 2014, 15, 405-413.	1.4	42
18	Two-dimensional benzodithiophene and benzothiadiazole based solution-processed small molecular organic field-effect transistors & solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3921.	2.7	41

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19	Subtle Side Chain Triggers Unexpected Two-Channel Charge Transport Property Enabling 80% Fill Factors and Efficient Thick-Film Organic Photovoltaics. <i>Innovation(China)</i> , 2021, 2, 100090.	5.2	40
20	Hyperconjugated side chained benzodithiophene and 4,7-di-2-thienyl-2,1,3-benzothiadiazole based polymer for solar cells. <i>Polymer Chemistry</i> , 2014, 5, 2076.	1.9	39
21	Solution-processed, indacenodithiophene-based, small-molecule organic field-effect transistors and solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7523.	2.7	39
22	Intra- and Intermolecular Steric Hindrance Effects Induced Higher Open-Circuit Voltage and Power Conversion Efficiency. <i>ACS Macro Letters</i> , 2015, 4, 361-366.	2.3	39
23	Rational design of asymmetric benzodithiophene based photovoltaic polymers for efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 948-956.	5.2	38
24	Crystalline Medium-Bandgap Light-Harvesting Donor Material Based on <i>1,2-Naphthalene</i> Asymmetric-Modified Benzodithiophene Moiety toward Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 8249-8257.	3.2	35
25	Efficient fullerene-based and fullerene-free polymer solar cells using two wide band gap thiophene-thiazolothiazole-based photovoltaic materials. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9511-9518.	5.2	34
26	Efficient fullerene-free solar cells with wide optical band gap polymers based on fluorinated benzotriazole and asymmetric benzodithiophene. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21650-21657.	5.2	33
27	The regulation of $\pi$ -bridge of indacenodithiophene-based donor- $\pi$ -acceptor conjugated polymers toward efficient polymer solar cells. <i>Dyes and Pigments</i> , 2019, 162, 43-51.	2.0	33
28	Extremely Color-Stable Blue Light-Emitting Polymers Based on Alternating 2,7-Difluorene-co-9-carbazole Copolymer. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1503-1509.	1.1	31
29	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.	1.5	30
30	Fluorene Side-Chained Benzodithiophene Polymers for Low Energy Loss Solar Cells. <i>Macromolecules</i> , 2017, 50, 6880-6887.	2.2	28
31	Cyclic alkyl chains promote the polymer self-assembly and packing orders for solar cells. <i>Nano Energy</i> , 2017, 36, 110-117.	8.2	27
32	Metal free benzothiadiazole-diketopyrrolopyrrole-based conjugated polymer/g-C <sub>3</sub> N <sub>4</sub> photocatalyst for enhanced sterilization and degradation in visible to near-infrared region. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 103-113.	5.0	27
33	Fuse the $\pi$ -Bridge to Acceptor Moiety of Donor- $\pi$ -Acceptor Conjugated Polymer: Enabling an All-Round Enhancement in Photovoltaic Parameters of Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31087-31095.	4.0	26
34	Low HOMO isoindigo based small molecule for high open-circuit voltage 1.0V solution processed organic solar cells. <i>Synthetic Metals</i> , 2013, 178, 38-43.	2.1	25
35	4,7-Di-2-thienyl-2,1,3-benzothiadiazole with hexylthiophene side chains and a benzodithiophene based copolymer for efficient organic solar cells. <i>Polymer Chemistry</i> , 2015, 6, 4415-4423.	1.9	25
36	Investigation of Fluorination on Donor Moiety of Donor- $\pi$ -Acceptor 4,7-Dithienylbenzothiadiazole-Based Conjugated Polymers toward Enhanced Photovoltaic Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26152-26161.	4.0	25

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37	A novel naphthyl side-chained benzodithiophene polymer for efficient photovoltaic cells with a high fill factor of 75%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10430-10436.	5.2	25
38	Narrow band-gap oligomer for solution-processed heterojunction organic solar cells. <i>Synthetic Metals</i> , 2008, 158, 125-129.	2.1	23
39	Improved open-circuit voltage of benzodithiophene based polymer solar cells using bulky terthiophene side group. <i>Solar Energy Materials and Solar Cells</i> , 2015, 138, 26-34.	3.0	23
40	Steric minimization towards high planarity and molecular weight for aggregation and photovoltaic studies. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23587-23596.	5.2	23
41	2D Benzodithiophene based conjugated polymer/g-C <sub>3</sub> N <sub>4</sub> heterostructures with enhanced photocatalytic activity: Synergistic effect of antibacterial carbazole side chain and main chain copolymerization. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121401.	10.8	22
42	Efficient white-light-emitting diodes based on polyfluorene doped with fluorescent chromophores. <i>Applied Physics Letters</i> , 2007, 91, 213502.	1.5	21
43	Selenophene and fluorene based narrow band gap copolymers with E <sub>g</sub> =1.41eV for near infrared polymer light emitting diodes. <i>Synthetic Metals</i> , 2012, 162, 1406-1410.	2.1	21
44	New small molecules with thiazolothiazole and benzothiadiazole acceptors for solution-processed organic solar cells. <i>New Journal of Chemistry</i> , 2014, 38, 1559.	1.4	21
45	A new highly conjugated crossed benzodithiophene and its donor-acceptor copolymers for high open circuit voltages polymer solar cells. <i>Polymer Chemistry</i> , 2015, 6, 3398-3406.	1.9	21
46	A fluorine-induced high-performance narrow bandgap polymer based on thiadiazolo[3,4-c]pyridine for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11729-11737.	5.2	21
47	Halogenation on terminal groups of ITIC based electron acceptors as an effective strategy for efficient polymer solar cells. <i>Solar Energy</i> , 2020, 195, 429-435.	2.9	21
48	Near-infrared response thienoisindigo-based small molecule for solution-processed bulk-heterojunction solar cells. <i>Synthetic Metals</i> , 2014, 187, 24-29.	2.1	20
49	Two-Dimensional BDT-Based Wide Band Gap Polymer Donor for Efficient Non-Fullerene Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19634-19641.	1.5	19
50	Low-bandgap conjugated polymers based on benzodipyrrolidone with reliable unipolar electron mobility exceeding 1 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Science China Chemistry</i> , 2021, 64, 1219-1227.	4.2	19
51	Benzothiadiazole – an excellent acceptor for indacenodithiophene based polymer solar cells. <i>RSC Advances</i> , 2014, 4, 37934-37940.	1.7	18
52	Efficiency enhancement in an indacenodithiophene and thieno[3,4-c]pyrrole-4,6-dione backbone photovoltaic polymer with an extended thieno[3,2-b]thiophene –bridge. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6280-6286.	2.7	18
53	Recent progress in emerging 2D layered materials for organic solar cells. <i>Solar Energy</i> , 2021, 218, 621-638.	2.9	17
54	Development of New Two-Dimensional Small Molecules Based on Benzodifuran for Efficient Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2621-2627.	1.7	16

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55	A diketopyrrolopyrrole-based low bandgap polymer with enhanced photovoltaic performances through backbone twisting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18174-18180.	5.2	16
56	Carbazole side-chained benzodithiophene based two-dimensional D-A conjugated photovoltaic polymers. <i>Dyes and Pigments</i> , 2019, 170, 107548.	2.0	16
57	Fabricating binary cathode interface layer by effective molecular electrostatic potential and interfacial dipole to optimize electron transport and improve organic solar cell. <i>Chemical Engineering Journal</i> , 2022, 446, 137209.	6.6	16
58	Thiophene copolymer for 1 V high open-circuit voltage semitransparent photovoltaic devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10868-10875.	2.7	15
59	Aminonaphthalimide-Based Molecular Cathode Interlayers for As-Cast Organic Solar Cells. <i>ChemSusChem</i> , 2021, 14, 4783-4792.	3.6	14
60	Benzothiadiazole-sandwiched quarter thiophene-based oligomer for organic solar cells. <i>Synthetic Metals</i> , 2009, 159, 556-560.	2.1	13
61	Ester-Substituted Pentathiophene Copolymer-Based Sky-Blue Semitransparent Solar Cells for Building Windows. <i>ACS Applied Energy Materials</i> , 2020, 3, 915-922.	2.5	13
62	Synthesis and photovoltaic properties of conjugated D-A copolymers based on thienyl substituted pyrene and diketopyrrolopyrrole for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2014, 52, 3198-3204.	2.5	12
63	Acceptor-rich bulk heterojunction polymer solar cells with balanced charge mobilities. <i>Organic Electronics</i> , 2017, 51, 16-24.	1.4	12
64	Addition of 2D $Ti_3C_2T_x$ to Enhance Photocurrent in Diodes for High-Efficiency Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100127.	3.1	12
65	A "green"-all-organic heterostructure functionalized by self-assembled fullerene small molecule with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2022, 585, 152738.	3.1	12
66	Extending two-dimensional $\pi$ -conjugation length by introducing the alkoxybiphenyl unit for efficient benzodithiophene based photovoltaic polymer. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8716-8723.	2.7	11
67	High lithium anodic performance of flower-like carbon nanoflakes derived from MOF based on double ligands. <i>Journal of Alloys and Compounds</i> , 2019, 806, 520-528.	2.8	11
68	Small Organic Molecule Based Photoelectrodes for Efficient Photoelectrochemical Cathodic Protection. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4012-4022.	2.0	11
69	Enhancing organic photovoltaic performance with 3D-transport dual nonfullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1948-1955.	5.2	11
70	(E)-1,2-Di(thiophen-2-yl)ethene based high mobility polymer for efficient photovoltaic devices without any post treatment. <i>RSC Advances</i> , 2016, 6, 68049-68057.	1.7	10
71	Asymmetric 2D benzodithiophene and quinoxaline copolymer for photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6798-6804.	2.7	10
72	Modifying the morphology via employing rigid phenyl side chains achieves efficient nonfullerene polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2762-2770.	2.5	10

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73	Incorporation of a classical visible non-fullerene acceptor into host binary blend enable ternary high-performance semitransparent polymer solar cells. <i>Chemical Engineering Journal</i> , 2022, 427, 132048.	6.6	10
74	Near-infrared electroluminescence from fluorene-based copolymers. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3007-3013.	2.5	9
75	Preparation and electrochemical properties of poly(2,5-dihydroxyaniline)/activated carbon composite electrode in organic electrolyte. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4672-4680.	1.3	9
76	Novel pendent thiophene side-chained benzodithiophene for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1558-1566.	2.5	9
77	Benzodithiophene-Based Polymers Containing Alkylthiophenyl Side Chains with Lowered HOMO Energy Levels for Organic Solar Cells. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 1273-1279.	1.3	9
78	Multi-armed imide-based molecules promote interfacial charge transfer for efficient organic solar cells. <i>Chemical Engineering Journal</i> , 2022, 441, 135894.	6.6	9
79	Comparative study of the conformational effect of dithienothiophene- and terthiophene-based photovoltaic polymers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11088-11095.	2.7	8
80	Fabrication and Characterization of FA <sub>1</sub> Cs <sub>1</sub> Pb <sub>3</sub> Polycrystal Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100166.	3.1	8
81	Manipulating the intermolecular stacking of polymeric donors for efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14209-14216.	2.7	8
82	Fluorene-Benzothiadiazole Copolymer for Single Component Green Light-Emitting Electrochemical Cells. <i>Journal of Display Technology</i> , 2013, 9, 476-482.	1.3	7
83	Novel wide band gap polymers based on dithienobenzoxadiazole for polymer solar cells with high open circuit voltages over 1 V. <i>RSC Advances</i> , 2016, 6, 51419-51425.	1.7	7
84	Rhodanine side-chained thiophene and indacenodithiophene copolymer for solar cell applications. <i>Materials Today Energy</i> , 2017, 5, 287-292.	2.5	7
85	Design of simple-structure wide-bandgap conjugated polymers based on BDT for efficient non-fullerene solar cells. <i>Dyes and Pigments</i> , 2021, 194, 109604.	2.0	7
86	Weakening the Aggregations of Polymer Chains toward Efficient Non-Fullerene Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800446.	2.0	6
87	Low surface energy self-polishing polymer grafted MWNTs for antibacterial coating and controlled-release property of Cu <sub>2</sub> O. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50267.	1.3	6
88	Random terpolymers for high-performance semitransparent polymer solar cells. <i>Dyes and Pigments</i> , 2021, 195, 109680.	2.0	6
89	Simple benzothiadiazole-based small molecules as additives for efficient organic solar cells. <i>Organic Electronics</i> , 2022, 101, 106424.	1.4	6
90	Pyrrole-based narrow-band-gap copolymers for red light-emitting diodes and bulk heterojunction photovoltaic cells. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1462-1468.	1.3	5

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91	Synthesis and Optical-electronic Properties of a Novel Star-shaped Benzodithiophene Molecule. <i>Chemistry Letters</i> , 2015, 44, 291-293.	0.7	5
92	$\hat{\Gamma}^2$ -Phase transformation and energy transfer induced photoluminescence modulation of fluorene based copolymer mono-dispersive nanoparticles. <i>RSC Advances</i> , 2013, 3, 23704.	1.7	4
93	Novel Panchromatic Absorption Material, Isoindigo-based Aâ€“fâ€“A Small Molecule. <i>Chemistry Letters</i> , 2014, 43, 1870-1872.	0.7	4
94	Hydrophilic poly-ether side-chained benzodithiophene-based homopolymer for solar cells and field-effect transistors. <i>Journal of Materials Science</i> , 2015, 50, 2263-2271.	1.7	4
95	Thiophene fâ€“ bridge effect on bulky sideâ€“chained benzodithiopheneâ€“based photovoltaic polymers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1615-1622.	2.5	4
96	Thieno[2,3-f]benzofuran based donor-acceptor polymer for fullerene-free solar cells. <i>European Polymer Journal</i> , 2019, 120, 109205.	2.6	4
97	A medium-band-gap polymer based alkoxy-substituted benzoxadiazole moiety for efficient polymer solar cells. <i>Polymer</i> , 2019, 168, 1-7.	1.8	4
98	Alkoxyphenyl or alkylphenyl side-chained Thieno[2,3-f]benzofuran polymer for efficient non-fullerene solar cells. <i>Materials Today Energy</i> , 2020, 16, 100381.	2.5	4
99	Ternary copolymerization strategy reducing the cost of benzodithiopheneâ€“benzodithiophenedione polymer, retaining high photovoltaic performance. <i>Polymer International</i> , 2021, 70, 443-449.	1.6	4
100	Naphtho[2,3-c]thiophene-4,9-dione based polymers for efficient fullerene solar cells. <i>Polymer</i> , 2021, 212, 123184.	1.8	4
101	Highâ€“Performance Ternary Semitransparent Polymer Solar Cells with Different Bandgap Third Component as Nonâ€“Fullerene Guest Acceptor. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
102	A triple bond side-chained 2D-conjugated benzodithiophene based photovoltaic polymer. <i>RSC Advances</i> , 2014, 4, 58426-58431.	1.7	3
103	Electrochemistry and Near-infrared Electrochromism of Electropolymerized Polydithiophenes with $\hat{\Gamma}^2$ , $\hat{\Gamma}^2$ â€“ Positions Bridged by Carbonyl or Dicarboxyl Substitute. <i>Electrochimica Acta</i> , 2014, 142, 108-117.	2.6	3
104	Single-Component Oligomer Nanoparticle-Based Size-Dependent Dual-Emission Modulation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4199-4205.	1.5	3
105	Fusing Benzo[c][1,2,5]oxadiazole Unit with Thiophene for Constructing Wideâ€“bandgap Highâ€“performance IDTâ€“based Polymer Solar Cell Donor Material. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700782.	2.0	3
106	1 V high open-circuit voltage fluorinated alkoxybiphenyl side-chained benzodithiophene based photovoltaic polymers. <i>Synthetic Metals</i> , 2019, 257, 116182.	2.1	3
107	Asymmetric ITIC acceptor for asymmetric benzodithiophene polymer solar cells. <i>Dyes and Pigments</i> , 2020, 183, 108727.	2.0	3
108	Ester-substituted copolymer-based ternary semitransparent polymer solar cells with enhanced FF and PCE. <i>Polymer</i> , 2021, 229, 123973.	1.8	3

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109	Effects of brominated terminal groups on the performance of fused-ring electron acceptors in organic solar cells. <i>Dyes and Pigments</i> , 2021, 194, 109652.	2.0	3
110	V enhancement of thienobenzofuran and benzotriazole backboned photovoltaic polymer by side chain sulfuration or fluoridation. <i>Dyes and Pigments</i> , 2021, 184, 108775.	2.0	3
111	Capacitive properties of low potential electro-polymerized polyfluorene and activated carbon composite electrode. <i>Science China Chemistry</i> , 2012, 55, 352-358.	4.2	2
112	Synthesis and solar cells applications of EOâ€PFâ€DTBT polymer. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	2
113	Thiophene ĩ€bridge effect on photovoltaic performances of dithienosilole and bithiazole backboned polymers. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	2
114	Bulky electron donating side chain enhances the open-circuit voltage of benzodithiophene photovoltaic polymers. <i>Materials Today Energy</i> , 2020, 18, 100568.	2.5	2
115	Corrosion behavior of anodic oxidized TiO2 film in seawater. <i>Journal of Ocean University of China</i> , 2010, 9, 376-380.	0.6	1
116	Near-infrared nonfullerene acceptors with halogenated terminated fused tris(thienothiophene) for efficient polymer solar cells. <i>Solar Energy</i> , 2022, 231, 433-439.	2.9	0
117	Effects of additional ĩ€-bridges on a terpolymer based on the second acceptor unit of DTBT and the performance of organic solar cells. <i>Polymer</i> , 2022, 254, 125089.	1.8	0