

# Bin Zhao

## List of Publications by Year in descending order

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112  
papers

2,925  
citations

147566

31  
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197535

49  
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112  
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112  
docs citations

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times ranked

4348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. <i>Advanced Functional Materials</i> , 2015, 25, 2920-2927.	7.8	150
2	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23291-23296.	4.0	123
3	Efficient triphenylamine dyes for solar cells: Effects of alkyl-substituents and $\pi$ -conjugated thiophene unit. <i>Dyes and Pigments</i> , 2009, 83, 187-197.	2.0	118
4	High Molar Extinction Coefficient Branchlike Organic Dyes Containing Di( <i>p</i> -tolyl)phenylamine Donor for Dye-Sensitized Solar Cells Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3280-3286.	1.5	110
5	Chemically modified graphene oxides as a hole transport layer in organic solar cells. <i>Chemical Communications</i> , 2012, 48, 8078.	2.2	105
6	Thiophene-linked porphyrin derivatives for dye-sensitized solar cells. <i>Chemical Communications</i> , 2009, 2499.	2.2	97
7	Transient Rechargeable Batteries Triggered by Cascade Reactions. <i>Nano Letters</i> , 2015, 15, 4664-4671.	4.5	77
8	Low bandgap isoindigo-based copolymers: design, synthesis and photovoltaic applications. <i>Polymer Chemistry</i> , 2011, 2, 1156-1162.	1.9	66
9	Development of a new benzo(1,2-b:4,5-b $\prime$ )dithiophene-based copolymer with conjugated dithienylbenzothiadiazole $\pi$ -vinylene side chains for efficient solar cells. <i>Chemical Communications</i> , 2011, 47, 9381.	2.2	65
10	Efficient triphenylamine-based dyes featuring dual-role carbazole, fluorene and spirobifluorene moieties. <i>Organic Electronics</i> , 2011, 12, 125-135.	1.4	65
11	Effect of 3D $\pi$ - $\pi$ Stacking on Photovoltaic and Electroluminescent Properties in Triphenylamine-containing Poly( <i>p</i> -phenylenevinylene) Derivatives. <i>Macromolecules</i> , 2008, 41, 5716-5722.	2.2	62
12	Flexible Counter Electrodes Based on Mesoporous Carbon Aerogel for High-Performance Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22615-22621.	1.5	61
13	Effects of aromatic $\pi$ -conjugated bridges on optical and photovoltaic properties of N,N-diphenylhydrazone-based metal-free organic dyes. <i>Organic Electronics</i> , 2011, 12, 1992-2002.	1.4	57
14	Synthesis and characterization of porphyrin-terthiophene and oligothiophene $\pi$ -conjugated copolymers for polymer solar cells. <i>European Polymer Journal</i> , 2010, 46, 1084-1092.	2.6	56
15	Synthesis and photovoltaic properties of polythiophene stars with porphyrin core. <i>Journal of Materials Chemistry</i> , 2010, 20, 1140-1146.	6.7	56
16	Stainless steel mesh-based flexible quasi-solid dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1005-1010.	3.0	51
17	Low-cost dyes based on methylthiophene for high-performance dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2010, 87, 181-187.	2.0	51
18	Benzodifuran-Based $\pi$ -Conjugated Copolymers for Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2010, 43, 8058-8062.	2.2	51

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19	Poly[ <i>N</i> -isopropylacrylamide- <i>co</i> -3-(trimethoxysilyl)-propylmethacrylate] Coated Aqueous Dispersed Thermosensitive Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10090-10096.	1.5	48
20	Synthesis and Photovoltaic Properties of Copolymers Based on Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene and Thiophene with Different Conjugated Side Groups. <i>Macromolecules</i> , 2012, 45, 2359-2366.	2.2	48
21	Ratiometric imaging of lysosomal hypochlorous acid enabled by FRET-based polymer dots. <i>Polymer Chemistry</i> , 2017, 8, 5795-5802.	1.9	47
22	Low band gap copolymers consisting of porphyrins, thiophenes, and 2,1,3-benzothiadiazole moieties for bulk heterojunction solar cells. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2685-2692.	2.5	46
23	Enhanced power conversion efficiencies in bulk heterojunction solar cells based on conjugated polymer with isoindigo side chain. <i>Chemical Communications</i> , 2013, 49, 3857.	2.2	43
24	The structural modification of thiophene-linked porphyrin sensitizers for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2011, 88, 75-83.	2.0	41
25	Multi-alkylthienyl appended porphyrins for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2011, 91, 404-412.	2.0	40
26	Achieving 17.38% efficiency of ternary organic solar cells enabled by a large-bandgap donor with noncovalent conformational locking. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11734-11740.	5.2	38
27	Effects of the acceptors in triphenylamine-based D-A <sup>2</sup> A dyes on photophysical, electrochemical, and photovoltaic properties. <i>Journal of Power Sources</i> , 2014, 246, 831-839.	4.0	37
28	Effect of oxadiazole side chains based on alternating fluorene-thiophene copolymers for photovoltaic cells. <i>European Polymer Journal</i> , 2009, 45, 2079-2086.	2.6	36
29	Synthesis of new N, N-diphenylhydrazone dyes for solar cells: Effects of thiophene-derived $\pi$ -conjugated bridge. <i>Dyes and Pigments</i> , 2012, 92, 1042-1051.	2.0	34
30	Porphyrins modified with a low-band-gap chromophore for dye-sensitized solar cells. <i>Organic Electronics</i> , 2012, 13, 560-569.	1.4	33
31	Flexible counter electrodes based on nitrogen-doped carbon aerogels with tunable pore structure for high-performance dye-sensitized solar cells. <i>Carbon</i> , 2014, 77, 113-121.	5.4	33
32	Non-conjugated polymers as thickness-insensitive electron transport materials in high-performance inverted organic solar cells. <i>Journal of Energy Chemistry</i> , 2020, 47, 196-202.	7.1	32
33	Electrical response and adsorption performance of novel composites from polystyrene filled with carbon aerogel in organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 60-66.	4.0	29
34	Hyperbranched conjugated polymers with donor- $\pi$ -acceptor architecture as organic sensitizers for dye-sensitized solar cells. <i>European Polymer Journal</i> , 2010, 46, 2033-2041.	2.6	29
35	Benzodifuran-containing well-defined $\pi$ -conjugated polymers for photovoltaic cells. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2935-2943.	2.5	29
36	Alkynyl-Functionalized Pyrene-Cored Perylene Diimide Electron Acceptors for Efficient Nonfullerene Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 3918-3926.	2.5	29

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37	The sensibility of the composites fabricated from polystyrene filling multi-walled carbon nanotubes for mixed vapors. <i>Composites Science and Technology</i> , 2008, 68, 1357-1362.	3.8	28
38	Simultaneously improving the photovoltaic parameters of organic solar cells <i>via</i> isomerization of benzo[ <i>b</i> ]benzo[4,5]thieno[2,3- <i>d</i> ]thiophene-based octacyclic non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9684-9692.	5.2	28
39	An asymmetric small-molecule donor enables over 18% efficiency in ternary organic solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9746-9752.	5.2	27
40	Synthesis and photovoltaic performances of conjugated copolymers with 4,7-dithien-5-yl-2,1,3-benzothiadiazole and di( <i>p</i> -tolyl)phenylamine side groups. <i>Journal of Materials Chemistry</i> , 2012, 22, 22913.	6.7	26
41	Polymer with a 3D conductive network: a thickness-insensitive electron transport layer for inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12969-12973.	5.2	25
42	Organic solar cells with efficiency of 17.6% and fill factor of 78.3% based on perylene-diimide derivative as cathode interface layer. <i>Chemical Engineering Journal</i> , 2022, 443, 136455.	6.6	24
43	Preparation and photoluminescence properties of electrospun nanofibers containing PMO-PPV and Eu(ODBM)3phen. <i>Materials Letters</i> , 2008, 62, 2419-2421.	1.3	22
44	Synthesis and characterization of trivalent metal porphyrin with NCS ligand for application in dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1174-1181.	3.0	22
45	Synthesis, characterization, and photovoltaic performance of the polymers based on thiophene-2,5-bis((2-ethylhexyl)oxy) benzene-thiophene. <i>Organic Electronics</i> , 2015, 20, 142-149.	1.4	22
46	Development of a new diindenopyrazine- <i>benzotriazole</i> copolymer for multifunctional application in organic field-effect transistors, polymer solar cells and light-emitting diodes. <i>Organic Electronics</i> , 2012, 13, 1671-1679.	1.4	21
47	Synthesis and photovoltaic properties of copolymers based on benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene and thiophene with electron-withdrawing side chains. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3604-3614.	2.5	19
48	Improved photovoltaic properties of PM6-based terpolymer donors containing benzothiadiazole with a siloxane-terminated side chain. <i>Polymer Chemistry</i> , 2020, 11, 6178-6186.	1.9	19
49	Simultaneously Enhancing the <i>J<sub>sc</sub></i> and <i>V<sub>oc</sub></i> of Ternary Organic Solar Cells by Incorporating a Medium-Band-Gap Acceptor. <i>ACS Applied Energy Materials</i> , 2021, 4, 3480-3486.	2.5	19
50	A2-D-A1-D-A2-type small molecule acceptors incorporated with electron-deficient core for non-fullerene organic solar cells. <i>Solar Energy</i> , 2020, 197, 511-518.	2.9	18
51	Rational design of truxene-bridged PDI trimers as acceptors for efficient organic solar cells. <i>Dyes and Pigments</i> , 2018, 156, 276-284.	2.0	17
52	Controlling the morphology and hole mobility of terpolymers for polymer solar cells. <i>RSC Advances</i> , 2016, 6, 13177-13184.	1.7	15
53	Effect of conjugated side groups on the photovoltaic performances of triphenylamine-based dyes sensitized solar cells. <i>Dyes and Pigments</i> , 2016, 124, 222-231.	2.0	15
54	Effects of monohalogenated terminal units of non-fullerene acceptors on molecular aggregation and photovoltaic performance. <i>Solar Energy</i> , 2020, 208, 866-872.	2.9	15

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55	Cationic Polyelectrolytes with Alkylsulfonate Counterions as a Cathode Interface Layer for High-Performance Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 44679-44688.	4.0	15
56	Ternary polymerization strategy to approach 12% efficiency in all-polymer solar cells processed by green solvent and additive. <i>Chemical Engineering Journal</i> , 2022, 429, 132407.	6.6	15
57	Synthesis and optoelectronic properties of liquid-crystalline copolymers based on fluorene and triphenylamine-containing oligo( <i>p</i> -phenylenevinylene) derivatives for white light emission. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3296-3308.	2.5	14
58	Synthesis and photovoltaic properties of the acceptor pended push-pull conjugated polymers incorporating thieno[3,2- <i>b</i> ] thiophene in the backbone chain or side chains. <i>Dyes and Pigments</i> , 2015, 120, 44-51.	2.0	14
59	A conductive liquid crystal via facile doping of an n-type benzodifurandione derivative. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6929-6934.	5.2	14
60	Synergistic Effect of Fluorine Substitution and Thio-Alkylation on Photovoltaic Performances of Alternating Conjugated Polymers Based on Alkylthio-Substituted Benzothiadiazole-Quaterthiophene. <i>ACS Applied Energy Materials</i> , 2018, 1, 2192-2199.	2.5	14
61	Molecular design of organic dyes based on vinylene hexylthiophene bridge for dye-sensitized solar cells. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1198-1209.	0.8	13
62	Synthesis and photovoltaic properties of poly( <i>p</i> -phenylenevinylene) derivatives with two triphenylamine and bithiophene conjugated side chains. <i>European Polymer Journal</i> , 2009, 45, 2726-2731.	2.6	13
63	Effect of Soft Segments of Waterborne Polyurethane on Organic Vapor Sensitivity of Carbon Black Filled Waterborne Polyurethane Composites. <i>Polymer Journal</i> , 2006, 38, 799-806.	1.3	12
64	Synthesis and photovoltaic performances of 2,5-dioctyloxy-1,4-phenylenevinylene and terthiophene copolymers with di( <i>p</i> -tolyl)phenylamine and oxadiazole side groups. <i>European Polymer Journal</i> , 2010, 46, 673-680.	2.6	12
65	Inverted polymer solar cells with TiO <sub>2</sub> electron extraction layers prepared by magnetron sputtering. <i>Science China Chemistry</i> , 2013, 56, 1573-1577.	4.2	12
66	A trilobal non-fullerene electron acceptor based on benzo[1,2- <i>b</i> :3,4- <i>b'</i> :5,6- <i>b''</i> ] trithiophene and perylene diimide for polymer solar cells. <i>Synthetic Metals</i> , 2017, 227, 122-130.	2.1	12
67	Rational design of a difluorobenzo[ <i>c</i> ]cinnoline-based low-bandgap copolymer for high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7300-7304.	5.2	12
68	The effect of the length of alkyl side-chains on the molecular aggregation and photovoltaic performance of the isoindigo-based polymers. <i>Dyes and Pigments</i> , 2017, 139, 403-411.	2.0	12
69	Two novel triphenylamine-substituted poly( <i>p</i> -phenylenevinylene) derivatives: synthesis, photo- and electroluminescent properties. <i>European Polymer Journal</i> , 2008, 44, 2348-2355.	2.6	11
70	Low-cost quasi-solid-state dye-sensitized solar cells based on a metal-free organic dye and a carbon aerogel counter electrode. <i>Journal of Materials Science</i> , 2011, 46, 7482-7488.	1.7	11
71	Synthesis and photovoltaic properties of conjugated copolymers with benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene and thiadiazolo[3,4- <i>c</i> ]pyridine moieties. <i>European Polymer Journal</i> , 2013, 49, 2738-2747.	2.6	11
72	Novel solution-processible small molecules based on benzo[1,2- <i>b</i> :3,4- <i>b'</i> :5,6- <i>b''</i> ]trithiophene for effective organic photovoltaics with high open-circuit voltage. <i>RSC Advances</i> , 2015, 5, 14540-14546.	1.7	11

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73	Development of s-tetrazine-based polymers for efficient polymer solar cells by controlling appropriate molecular aggregation. <i>Dyes and Pigments</i> , 2019, 171, 107717.	2.0	11
74	Analysis of gas sensing behaviors of carbon black/waterborne polyurethane composites in low concentration organic vapors. <i>Journal of Materials Science</i> , 2007, 42, 4575-4580.	1.7	10
75	Synergetic Effect of Efficient Energy Transfer and 3D "π-π" Stack for White Emission Based on the Block Copolymers Containing Nonconjugated Spacer. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4203-4208.	1.2	10
76	Synthesis and white electroluminescent properties of multicomponent copolymers containing polyfluorene, oligo(phenylenevinylene), and porphyrin derivatives. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5291-5303.	2.5	9
77	Bandgap and Molecular Energy Level Control of Conjugated Polymer Photovoltaic Materials Based on 6,12-Dihydroindeno[1,2-b;10,20-e]pyrazine. <i>Macromolecular Chemistry and Physics</i> , 2013, 114, 1147-1157.	1.1	9
78	Improved photovoltaic performance of D-A1-D-A2 terpolymer via synergetic effects of copolymerization and blending. <i>Dyes and Pigments</i> , 2019, 160, 79-85.	2.0	9
79	Non-conjugated electrolytes as thickness-insensitive interfacial layers for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22926-22933.	5.2	9
80	Synthesis, characterization, and photophysical properties of novel poly(p-phenylene vinylene) derivatives with conjugated thiophene as side chains. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3387-3394.	1.3	8
81	Synthesis and photovoltaic properties of organic small molecules containing triphenylamine and benzothiadiazole moieties with different terminal groups. <i>Dyes and Pigments</i> , 2013, 98, 464-470.	2.0	8
82	Developing s-Tetrazine-Based Terpolymer for High-Performance Polymer Solar Cells by Tuning Side Chains. <i>ACS Applied Energy Materials</i> , 2021, 4, 11624-11633.	2.5	8
83	Poly(p-phenylenevinylene) derivatives with conjugated thiophene side chains: Synthesis, photophysics and photovoltaics. <i>Synthetic Metals</i> , 2010, 160, 1291-1298.	2.1	7
84	Synthesis and photovoltaic properties of phthalocyanine end-capped copolymers with conjugated dithienylbenzothiadiazole vinylene side chains. <i>European Polymer Journal</i> , 2012, 48, 1805-1813.	2.6	7
85	2-Ethynyl-6-methylthieno[3,2-b]thiophene as an efficient π spacer for porphyrin-based dyes. <i>Dyes and Pigments</i> , 2015, 122, 168-176.	2.0	7
86	An axisymmetric heptacyclic lactam unit for efficient polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6911-6915.	2.7	7
87	Preparation of Polymer/TiO <sub>2</sub> Hybrid Nanofibers Microporous Membranes and Its Application in Dye-Sensitized Solar Cells. <i>Acta Chimica Sinica</i> , 2012, 70, 1604.	0.5	7
88	Synthesis and electroluminescent properties of substituted benzoate bis (8-hydroxyquinaldine) gallium (III) complexes. <i>Journal of Materials Science</i> , 2004, 39, 1405-1406.	1.7	6
89	Improved photovoltaic properties of the copolymers based on diketopyrrolopyrrole with broad absorption and high open-circuit voltage. <i>Dyes and Pigments</i> , 2016, 133, 16-24.	2.0	6
90	Rapid Dissolving-Debonding Strategy for Optically Transparent Paper Production. <i>Scientific Reports</i> , 2016, 5, 17703.	1.6	6

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91	Regular terpolymers with benzothiadiazole side groups for improving the performances of polymer solar cells. <i>Dyes and Pigments</i> , 2017, 143, 261-269.	2.0	6
92	Two A2-D-A1-D-A2 small molecules with isoindigo as the central core for efficient organic photovoltaics. <i>Dyes and Pigments</i> , 2018, 156, 403-409.	2.0	6
93	EFFICIENT TiO <sub>2</sub> NANOPARTICLES/NANORODS COMPOSITE ELECTRODES FOR DYE-SENSITIZED SOLAR CELLS. <i>Nano</i> , 2012, 07, 1250010.	0.5	5
94	Synthesis and photovoltaic properties of new branchlike organic dyes containing benzothiadiazole or triphenylamine-linked consecutive vinylenes units. <i>Dyes and Pigments</i> , 2013, 97, 405-411.	2.0	5
95	Polymer with conjugated alkylthiophenylthienyl side chains for efficient photovoltaic cells. <i>Organic Electronics</i> , 2017, 48, 298-307.	1.4	5
96	Synthesis and Photovoltaic Properties of the Copolymers Based on Carbazole with Tetrathiophene Porphyrin Side Chains Linked by a Flexible Alkyl Interval. <i>Chinese Journal of Chemistry</i> , 2018, 36, 599-604.	2.6	5
97	Benzothienoisindigo-based polymers for efficient polymer solar cells with an open-circuit voltage of 0.96 V. <i>Polymer</i> , 2019, 175, 339-346.	1.8	5
98	Rhodium-catalyzed successive C(sp <sup>2</sup> )-H and C(sp <sup>2</sup> )-C(sp <sup>2</sup> ) bond activation of aryl oximes: synthetic and mechanistic studies. <i>Organic Chemistry Frontiers</i> , 2022, 9, 822-830.	2.3	5
99	Polymerized Naphthalimide Derivatives as Remarkable Electron Transport Layers for Inverted Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200119.	2.0	5
100	Study on copolymerization behavior of 2-substituted 4-methylene-1,3-dioxolane with maleic anhydride and acrylonitrile. <i>Journal of Polymer Science Part A</i> , 1996, 34, 2149-2156.	2.5	4
101	Phenylenevinylene copolymers of dihexylthienylbenzothiadiazole and triphenylamine or tetraphenylbenzidine: synthesis, characterization and photovoltaic properties. <i>Journal of Materials Science</i> , 2012, 47, 5706-5714.	1.7	4
102	Design and synthesis of the polymers based on alkylthiophenyl side chains and variant acceptor moieties for polymer solar cells. <i>RSC Advances</i> , 2016, 6, 95306-95313.	1.7	4
103	Synthesis and photovoltaic properties of a phenylenevinylene copolymer with dithienylbenzothiadiazole and bis(di(p-tolyl)phenylamino)phenylene units. <i>European Polymer Journal</i> , 2011, 47, 2424-2431.	2.6	3
104	Preventing isomerization of the fused-ring core by introducing a methyl group for efficient non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13357-13365.	2.7	3
105	Tuning the photovoltaic performances of the terpolymers based on thiophene-benzene-thiophene via the modification of alkyl side chains. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	2
106	Effects of spin-coating speed on the morphology and photovoltaic performance of the diketopyrrolopyrrole-based terpolymer. <i>Science China Chemistry</i> , 2016, 59, 466-471.	4.2	2
107	Synthesis and photovoltaic performance of dye-sensitizers based on thiophene-triphenylamine with varied substituents. <i>Scientia Sinica Chimica</i> , 2011, 41, 982-988.	0.2	2
108	SYNTHESIS AND ELECTROLUMINESCENT PROPERTIES OF A POLYFLUORENE GRAFTED OLIGO(PHENYLENEVINYLENE DERIVATIVE WITH TWO TRIPHENYLAMINE SIDE GROUP). <i>Acta Polymerica Sinica</i> , 2010, 010, 501-507.	0.0	2

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109	Synthesis and Photovoltaic Properties of Conjugated Polymers Based on 1,2,4-Triazole Derivatives. <i>Acta Chimica Sinica</i> , 2012, 70, 2433.	0.5	2
110	Improved photovoltaic properties of copolymer donors by regulating alkyl and alkylsilyl side chains. <i>Dyes and Pigments</i> , 2022, 197, 109842.	2.0	2
111	Synthesis and Optoelectronic Properties of A-D-A Type Small Molecule Acceptors Containing Isatin-Fused Acenaphthenequinone Imide Terminal Groups. <i>Chinese Journal of Organic Chemistry</i> , 2021, , 2019.	0.6	1
112	Synthesis and photovoltaic properties of the polymers base on thiophene derivatives with electron-deficient 3-nitro-1,2,4-triazole side chains. <i>Thin Solid Films</i> , 2013, 539, 267-273.	0.8	0