

Joo Hyun Kim

List of Publications by Year in descending order

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119
papers

1,792
citations

279798

23
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345221

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121
all docs

121
docs citations

121
times ranked

2333
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation kinetics for photocatalytic reaction of methyl orange over Al-doped ZnO nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 199-206.	5.8	93
2	Inverted Type Polymer Solar Cells with Self-Assembled Monolayer Treated ZnO. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2646-2652.	3.1	89
3	Spray-coated organic solar cells with large-area of 12.25cm ² . <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 852-855.	6.2	77
4	Hole Injection/Transport Materials Derived from Heck and Sol [−] Gel Chemistry for Application in Solution-Processed Organic Electronic Devices. <i>Journal of the American Chemical Society</i> , 2011, 133, 1375-1382.	13.7	69
5	Ultrathin TiO ₂ Films on ZnO Electron-Collecting Layers of Inverted Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21517-21520.	3.1	65
6	Polyviologen derivatives as an interfacial layer in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 1-8.	6.2	56
7	2D Perovskite Seeding Layer for Efficient Air-Processable and Stable Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2003081.	14.9	48
8	Nonconjugated Anionic Polyelectrolyte as an Interfacial Layer for the Organic Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6508-6513.	8.0	45
9	Effect of Polyelectrolyte Electron Collection Layer Counteranion on the Properties of Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3335-3341.	8.0	43
10	Pyromellitic Diimide-Ethynylene-Based Homopolymer Film as an N-Channel Organic Field-Effect Transistor Semiconductor. <i>ACS Macro Letters</i> , 2013, 2, 664-669.	4.8	38
11	Trans crystallization behavior and strong reinforcement effect of cellulose nanocrystals on reinforced poly(butylene succinate) nanocomposites. <i>RSC Advances</i> , 2018, 8, 15389-15398.	3.6	37
12	New host materials with high triplet energy level for blue-emitting electrophosphorescent device. <i>Synthetic Metals</i> , 2007, 157, 743-750.	3.9	36
13	Large-area organic solar cells with metal subelectrode on indium tin oxide anode. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	36
14	Low-bandgap poly(4H-cyclopenta[def]phenanthrene) derivatives with 4,7-dithienyl-2,1,3-benzothiadiazole unit for photovoltaic cells. <i>Polymer</i> , 2010, 51, 390-396.	3.8	35
15	Synthesis of quinoxaline-based polymers with multiple electron-withdrawing groups for polymer solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 192-197.	5.8	35
16	Enhanced Performance in Inverted Polymer Solar Cells with D [−] -Type Molecular Dye Incorporated on ZnO Buffer Layer. <i>ChemSusChem</i> , 2013, 6, 1445-1454.	6.8	33
17	Reduction of Series Resistance in Organic Photovoltaic Using Low Sheet Resistance of ITO Electrode. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, H64.	2.2	32
18	Effect of the number of thiophene rings in polymers with 2,1,3-benzooxadiazole core on the photovoltaic properties. <i>Organic Electronics</i> , 2013, 14, 2673-2681.	2.6	29

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19	Enhancing the efficiency of opto-electronic devices by the cathode modification. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3820-3825.	5.5	28
20	Step-by-step improvement in photovoltaic properties of fluorinated quinoxaline-based low-band-gap polymers. <i>Organic Electronics</i> , 2017, 47, 14-23.	2.6	28
21	Bilateral Interface Engineering for Efficient and Stable Perovskite Solar Cells Using Phenylethylammonium Iodide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24827-24836.	8.0	27
22	Interfacial layer material derived from dialkylviologen and sol-gel chemistry for polymer solar cells. <i>Organic Electronics</i> , 2013, 14, 995-1001.	2.6	26
23	Effect of self-assembled monolayer treated ZnO as an electron transporting layer on the photovoltaic properties of inverted type polymer solar cells. <i>Synthetic Metals</i> , 2014, 187, 113-117.	3.9	26
24	Improvement of efficiency of polymer solar cell by incorporation of the planar shaped monomer in low band gap polymer. <i>Synthetic Metals</i> , 2012, 162, 768-774.	3.9	23
25	High performance cyano-substituted quinoxaline-based polymers for both fullerene and nonfullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19513-19521.	10.3	23
26	Relationship between HOMO energy level and open circuit voltage of polymer solar cells. <i>Organic Electronics</i> , 2012, 13, 2185-2191.	2.6	22
27	Study on γ -alumina precursors prepared using different ammonium salt precipitants. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1269-1275.	5.8	22
28	Organic Electrolytes Doped ZnO Layer as the Electron Transport Layer for Bulk Heterojunction Polymer Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800086.	5.8	22
29	Synthesis and characterization of conjugated oligoelectrolytes based on fluorene and carbazole derivative and application of polymer solar cell as a cathode buffer layer. <i>Macromolecular Research</i> , 2015, 23, 367-376.	2.4	21
30	A Simple Approach to Fabricate an Efficient Inverted Polymer Solar Cell with a Novel Small Molecular Electrolyte as the Cathode Buffer Layer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32992-32997.	8.0	21
31	Highly efficient Ternary Solar Cells of 10.2% with Core/Shell Quantum Dots via FRET Effect. <i>Solar Rrl</i> , 2018, 2, 1800077.	5.8	21
32	Effect of interface modification in polymer solar cells: An in-depth investigation of the structural variation of organic dye for interlayer material. <i>Dyes and Pigments</i> , 2020, 173, 107927.	3.7	20
33	Lead Acetate Assisted Interface Engineering for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7186-7197.	8.0	20
34	Synthesis and characterization of thermally cross-linkable hole injection polymer based on poly(10-alkylphenothiazine) for polymer light-emitting diode. <i>Synthetic Metals</i> , 2009, 159, 1928-1933.	3.9	18
35	Investigation of the effect of conjugated oligoelectrolyte as a cathode buffer layer on the photovoltaic properties. <i>Synthetic Metals</i> , 2014, 198, 122-130.	3.9	18
36	Di-aryl substituted poly(cyclopenta[def]phenanthrene) derivatives containing carbazole and triphenylamine units in the main chain for organic light-emitting diodes. <i>Macromolecular Research</i> , 2011, 19, 589-598.	2.4	17

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37	Fluorinated benzothiadiazole-based small molecules for photovoltaic applications. <i>Synthetic Metals</i> , 2016, 220, 455-461.	3.9	17
38	Investigating the effect of diverse structural variation of conjugated polymer electrolytes as the interlayer on photovoltaic properties. <i>Chemical Engineering Journal</i> , 2021, 420, 129895.	12.7	17
39	Effect of conjugated polymer electrolytes with diverse acid derivatives as a cathode buffer layer on photovoltaic properties. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4562-4569.	10.3	16
40	Coreâ€‘Corona Functionalization of Diblock Copolymer Micelles by Heterogeneous Metal Nanoparticles for Dual Modality in Chemical Reactions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18778-18785.	8.0	15
41	Properties of inverted polymer solar cells based on novel small molecular electrolytes as the cathode buffer layer. <i>Organic Electronics</i> , 2016, 39, 163-167.	2.6	15
42	Enhanced photovoltaic performance of quinoxaline-based donor-acceptor type polymers with monocyno substituent. <i>Journal of Power Sources</i> , 2021, 491, 229588.	7.8	15
43	Effect of Fluorine Atom on Photovoltaic Properties of Triphenylamine-Substituted Quinoxaline-Based D-A Type Polymers. <i>Macromolecular Research</i> , 2020, 28, 1297-1303.	2.4	15
44	Electroluminescent copolymers based on dihexylfluorene and 2-{2,6-bis[2-(4-diphenylaminophenyl)vinyl]pyran-4-ylidene}malononitrile units. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3729-3737.	2.3	14
45	Improved photovoltaic performance by enhanced crystallinity of poly(3-hexyl)thiophene. <i>Organic Electronics</i> , 2013, 14, 3046-3051.	2.6	14
46	Synthesis and electroluminescent properties of ï€‘conjugated copolymer based on 10-hexylphenothiazine and aromatic 1,2,4-triazole. <i>Synthetic Metals</i> , 2009, 159, 1922-1927.	3.9	13
47	Photovoltaic properties of low band gap polymer based on phenanthrene and diketopyrrolopyrrole. <i>Synthetic Metals</i> , 2013, 176, 41-46.	3.9	13
48	Effect of side chain arrangement of conjugated polyelectrolytes buffer layer on the photovoltaic properties. <i>Organic Electronics</i> , 2015, 25, 85-91.	2.6	13
49	Effect of the Side Chain Functionality of the Conjugated Polyelectrolytes as a Cathode Interlayer Material on the Photovoltaic Performances. <i>Macromolecular Research</i> , 2022, 30, 146-151.	2.4	13
50	Effect of hybrid carbon nanotubesâ€‘bimetallic composite particles on the performance of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 750-754.	6.2	12
51	Synthesis, optical and electrochemical properties of in-situ thermally cross-linkable oligo(10H-alkylphenothiazine). <i>Synthetic Metals</i> , 2012, 162, 70-78.	3.9	12
52	Cathode modification of polymer solar cells by electrostatically self-assembled zwitterionic non-conjugated polyelectrolyte. <i>Synthetic Metals</i> , 2015, 209, 441-446.	3.9	12
53	Investigation of the property change of polymer solar cells by changing counter anions in polyviologen as a cathode buffer layer. <i>Macromolecular Research</i> , 2015, 23, 177-182.	2.4	11
54	Synthesis and characterization of thermally cross-linkable trimer based on triphenylamine. <i>Macromolecular Research</i> , 2013, 21, 321-326.	2.4	10

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55	Synthesis of Conjugated Materials Based on Benzodithiophene - Benzothiadazole and Their Application of Organic Solar Cells. <i>Macromolecular Research</i> , 2018, 26, 552-556.	2.4	10
56	Synthesis of Trifluoromethylated Quinoxaline-Based Polymers for Photovoltaic Applications. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800260.	3.9	10
57	Improvement of efficiency in π -conjugated polymer based on phenothiazine by introduction of oxadiazole pendant as a side chain. <i>Macromolecular Research</i> , 2009, 17, 319-324.	2.4	9
58	Synthesis, Optical, and Electroluminescent Properties of Alternating Copolymer Based on Phenothiazine and Fluorene with Oxadiazole Pendant. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 550, 294-303.	0.9	9
59	Synthesis of Pb-Substituted LaCoO ₃ Nanoparticles by Microwave Process and Their Photocatalytic Activity Under Visible Light Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 6160-6164.	0.9	9
60	Thermoelectric properties of solution-processed antimony-doped tin oxide thin films. <i>Thin Solid Films</i> , 2018, 646, 92-97.	1.8	9
61	Organic electrolyte hybridized ZnO as the electron transport layer for inverted polymer solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 175-179.	5.8	9
62	Self-Assembled Poly(4-vinylpyridine) As an Interfacial Layer for Polymer Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 13-18.	1.9	8
63	Enhanced open-circuit voltages of trifluoromethylated quinoxaline-based polymer solar cells. <i>Organic Electronics</i> , 2019, 65, 363-369.	2.6	8
64	Effect of Self-Assembled Monolayer Treated ZnO on the Photovoltaic Properties of Inverted Polymer Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 569-574.	1.9	8
65	Annealing-free Poly(3-hexylthiophene):[6,6]-phenyl-C61-butyric acid methyl ester-based organic solar cells. <i>Current Applied Physics</i> , 2012, 12, 908-910.	2.4	7
66	A-D-A type conjugated oligomers based on benzothiadiazole and their photovoltaic applications. <i>Synthetic Metals</i> , 2016, 221, 127-133.	3.9	7
67	Synthesis and Characterization of Benzothiadiazole and Dicyanovinylindandione Based Small-Molecular Conjugated Materials and Their Photovoltaic Properties. <i>Macromolecular Research</i> , 2019, 27, 1261-1267.	2.4	7
68	Water-Repellent Perovskites Induced by a Blend of Organic Halide Salts for Efficient and Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33172-33181.	8.0	7
69	Carbazole-Based Polyimide as a Hole-Transporting Material for Optoelectronic Applications. <i>Macromolecular Research</i> , 2021, 29, 735-742.	2.4	7
70	Efficiency enhancement of organic solar cell by small molecule electrolyte based on naphthalene diimide as an electron transport layer. <i>Molecular Crystals and Liquid Crystals</i> , 2022, 742, 69-78.	0.9	7
71	Novel conjugated polymers based on cyclopenta[c]thiophene-4,6(5H)-dione for efficient polymer solar cells. <i>Journal of Power Sources</i> , 2022, 542, 231737.	7.8	7
72	Simple Approach to Overcome Thickness Tolerance of Interlayer without Sacrificing the Performances of Polymer Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900797.	3.7	6

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73	Simple methoxy-substituted quinoxaline-based D-A type polymers for nonfullerene polymer solar cells. <i>Dyes and Pigments</i> , 2021, 192, 109346.	3.7	6
74	Enhancement in charge extraction and moisture stability of perovskite solar cell via infiltration of charge transport material in grain boundaries. <i>Journal of Power Sources</i> , 2021, 506, 230212.	7.8	6
75	Enhanced efficiency in polymer solar cells by incorporation of phenothiazine-based conjugated polymer electrolytes. <i>Organic Electronics</i> , 2015, 16, 18-25.	2.6	5
76	Synthesis of Quinoxaline-Based Small Molecules Possessing Multiple Electron-Withdrawing Moieties for Photovoltaic Applications. <i>Macromolecular Research</i> , 2019, 27, 1268-1274.	2.4	5
77	Synthesis of Cyano-Substituted Conjugated Polymers for Photovoltaic Applications. <i>Polymers</i> , 2019, 11, 746.	4.5	5
78	Selective ion transport through three-dimensionally interconnected nanopores of quaternized block copolymer membranes for energy harvesting application. <i>Soft Matter</i> , 2021, 17, 3700-3708.	2.7	5
79	Synthesis and characterization of efficient orange-red emitting poly(p-phenylenevinylene) derivatives with 1,3,4-oxadiazole unit. <i>Synthetic Metals</i> , 2007, 157, 1040-1045.	3.9	4
80	Synthesis and Characterization of Di-hexyl-fluorene and Triphenylamine Based Copolymers Containing 1,3,4-Oxadiazole Pendants. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 538, 118-126.	0.9	4
81	A conjugated low band gap diketopyrrolopyrrole and dibenzosilole-based polymer for organic solar cell. <i>Synthetic Metals</i> , 2015, 210, 201-207.	3.9	4
82	New A-D-A type small molecules based on benzodithiophene derivative for organic solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 660, 66-71.	0.9	4
83	Synthesis and Characterization of Novel Conjugated Polymer with 4H-Cyclopenta[def]phenanthrene and the Sulfanyl Group. <i>Polymer Journal</i> , 2009, 41, 138-145.	2.7	3
84	Synthesis and Characterization of π -Conjugated Polymers Based on 2-arylbenzimidazole and 4,7-di-thiophene-2-yl-4,5,6,7-tetrahydro-benzo[1,2,5]thiadiazole. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 581, 31-37.	0.9	3
85	Small-molecule electrolytes with different ionic functionalities as a cathode buffer layer for polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15183-15188.	5.5	3
86	Synthesis of benzothiadiazole-based small molecule and its photovoltaic property. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 707, 101-109.	0.9	3
87	ZnO-free Inverted Polymer Solar Cells Based on New Viologen Derivative as a Cathode Buffer Layer. <i>Applied Chemistry for Engineering</i> , 2016, 27, 512-515.	0.2	3
88	Synthesis and electro-optical properties of poly(p-phenylenevinylene) derivative with conjugated 1,3,4-oxadiazole pendant and its AC electroluminescence. <i>Synthetic Metals</i> , 2008, 158, 1028-1036.	3.9	2
89	Preparation of Highly Dispersed Gold Nanoparticles on Organosilane Modified Graphene Nanosheets. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 602, 126-133.	0.9	2
90	Diketopyrrolopyrrole-based Small Molecule for Application in Solution Processed Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 598, 111-119.	0.9	2

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91	Solution-processed small-molecule organic solar cells based on diketopyrrolopyrrole and perylene derivatives with coplanar structures. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 635, 40-44.	0.9	2
92	Cathode modification by the electrostatically self-assembled poly(4-vinylpyridine) derivative for enhancing the performance of polymer solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 72-77.	0.9	2
93	Alcohol-soluble conjugated oligomers as the cathode interfacial layer in polymer solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 660, 60-65.	0.9	2
94	Effect of multiple electron-withdrawing substituents on photovoltaic properties of quinoxaline-based polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 685, 14-21.	0.9	2
95	Synthesis and characterization of new dyes based on chromone malononitrile as the electron withdrawing group and their photovoltaic effect. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 705, 28-34.	0.9	2
96	N-Phenyl Cinnamamide Derivatives Protect Hepatocytes against Oxidative Stress by Inducing Cellular Glutathione Synthesis via Nuclear Factor (Erythroid-Derived 2)-Like 2 Activation. <i>Molecules</i> , 2021, 26, 1027.	3.8	2
97	Synthesis and Characterization of π -Conjugated Polymer Based on Phthalimide Derivative and its Application for Polymer Solar Cells. <i>Porrime</i> , 2013, 37, 694-701.	0.2	2
98	Effect of fluorine substituents on photovoltaic properties of D π A type conjugated polymers with quinoxaline unit. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-9.	0.9	2
99	Effect of Phthalimide in 2,1,3-Benzooxadiazole Based Copolymer on the Performances of Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 598, 120-128.	0.9	1
100	Cathode modification of polymer solar cells by ultrahydrophobic polyelectrolyte. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 635, 6-11.	0.9	1
101	Clustered assembly of Au nanoparticles from spherical diblock copolymer micelles encapsulating Au nanoparticle. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	1
102	Synthesis of low bandgap small molecules containing fluorinated benzothiadiazole and phenothiazine for photovoltaic applications. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 27-32.	0.9	1
103	Investigation of the effect of 2,6-pyridinedimethanol as the cathode buffer layer on the photovoltaic properties. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 44-49.	0.9	1
104	Synthesis and characterization conjugated oligomer based on phenothiazine derivative. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 78-83.	0.9	1
105	A-D-A type oligomer based on carbazole and benzothiadiazole for organic solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 655, 166-172.	0.9	1
106	Enhanced photovoltaic performance of quinoxaline-based small molecules through incorporating trifluoromethyl substituents. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 685, 22-28.	0.9	1
107	New small molecule electrolytes based on tosylate anion for organic solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 687, 47-52.	0.9	1
108	Synthesis of A-D-A type quinoxaline-based small molecules for organic photovoltaic cells. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 705, 7-14.	0.9	1

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109	Synthesis of quinoxaline-based D-A type conjugated polymers for photovoltaic applications. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 705, 15-21.	0.9	1
110	Conjugated polymer electrolyte with nitrosonium tetrafluoroborate as the interlayer for polymer solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-7.	0.9	1
111	Ion transport through layered hydrogels for low-frequency energy harvesting toward self-powered chemical systems. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11881-11892.	10.3	1
112	Effect of electron-donating methoxy groups on photovoltaic properties of triphenylamine-substituted quinoxaline-based polymers. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-7.	0.9	1
113	Influence of Solvent on Micellar Morphologies of Semifluorinated Block Copolymers. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 7220-3.	0.9	0
114	Synthesis and Characterization of Thermally Cross-Linkable Oligophenothiazine. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 567, 178-186.	0.9	0
115	Highly efficient Ternary Solar Cells of 10.2% with Core/Shell Quantum Dots via FRET Effect (Solar RRL) Tj ETQq1 1 0,784314 rgBT /Over	5.8	0
116	Small Molecule Electrolyte: Simple Approach to Overcome Thickness Tolerance of Interlayer without Sacrificing the Performances of Polymer Solar Cells (<i>Adv. Mater. Interfaces</i> 18/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970115.	3.7	0
117	Small molecular electrolytes as the interlayer for enhanced performance of organic solar cellsExperimental. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 705, 22-27.	0.9	0
118	Fluorine-substituted indolo-thiadiazoloquinoxaline-based D-A type polymers for photovoltaic applications. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-8.	0.9	0
119	Synthesis of Conjugated Oligomer Based on Benzothiadiazole and Its Application of Organic Solar Cells. <i>Porrime</i> , 2016, 40, 960.	0.2	0