

# Origin of the Open Circuit Voltage of Plastic Solar Cells

Advanced Functional Materials

11, 374-380

DOI: 10.1002/1616-3028(200110)11:5<374::aid-adfm374>3.0.co;2-w

Citation Report

#	ARTICLE	IF	CITATIONS
1	Dioxo- and nitrido-osmium complexes with imidodiphosphinochalcogenido ligands [N(QPR2)2]âˆ™ (Qâ€œ...=â€œ...S) Tj,ETQq0 0 0,rgBT /Ov	2.3	20
2	Organic electronics: Introduction. IBM Journal of Research and Development, 2001, 45, 3-9.	3.1	237
3	Organic Solar Cells Based on Evaporated Planar and Bulk Heterojunctions of a PPVpentamer and C60. Materials Research Society Symposia Proceedings, 2001, 708, 931.	0.1	0
4	Small reorganisation energy and unique stabilisation of zwitterionic C60â€œacceptor moieties. Chemical Communications, 2002, , 2320-2321.	4.1	14
5	Open-Circuit Voltage Characteristics in Polyfluorene Based Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2002, 725, 1.	0.1	4
6	The origin of the open-circuit voltage in polyfluorene-based photovoltaic devices. Journal of Applied Physics, 2002, 92, 4266-4270.	2.5	221
7	Double-cable polymers for fullerene based organic optoelectronic applications. Journal of Materials Chemistry, 2002, 12, 1931-1943.	6.7	249
8	Photovoltaic Applications. Developments in Fullerence Science, 2002, , 387-435.	0.5	15
9	Effect of LiF/metal electrodes on the performance of plastic solar cells. Applied Physics Letters, 2002, 80, 1288-1290.	3.3	879
10	Solar cells based on poly(3-alkyl)thiophenes and [60]fullerene: a comparative study. Journal of Materials Chemistry, 2002, 12, 2065-2070.	6.7	51
11	Photovoltaic Devices with Methanofullerenes as Electron Acceptors. Journal of Physical Chemistry B, 2002, 106, 11509-11514.	2.6	30
12	The influence of materials work function on the open circuit voltage of plastic solar cells. Thin Solid Films, 2002, 403-404, 368-372.	1.8	147
13	The polymerâ€œfullerene interpenetrating network: one route to a solar cell approach. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 53-60.	2.7	47
14	Photogenerated charge carrier transport in p-polymer n-polymer bilayer structures. Journal of Applied Physics, 2003, 94, 4088-4095.	2.5	30
15	Cathode dependence of the open-circuit voltage of polymer:fullerene bulk heterojunction solar cells. Journal of Applied Physics, 2003, 94, 6849-6854.	2.5	750
16	Hybrid Solar Cells Based on Nanoparticles of CuInS2 in Organic Matrices. Advanced Functional Materials, 2003, 13, 165-171.	14.9	270
17	Solution-Processed Organic n-Type Thin-Film Transistors. Advanced Materials, 2003, 15, 2084-2088.	21.0	186
18	Electron Energetics at Surfaces and Interfaces: Concepts and Experiments. Advanced Materials, 2003, 15, 271-277.	21.0	637

#	ARTICLE	IF	CITATIONS
19	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. Angewandte Chemie, 2003, 115, 3493-3497.	2.0	156
20	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. Angewandte Chemie - International Edition, 2003, 42, 3371-3375.	13.8	1,089
21	Excitonic Solar Cells. Journal of Physical Chemistry B, 2003, 107, 4688-4698.	2.6	722
22	Modeling the current-voltage characteristics of bilayer polymer photovoltaic devices. Physical Review B, 2003, 67, .	3.2	252
23	Organic and Plastic Solar Cells. , 2003, , 483-511.		0
24	Preparation of New Main-Chain Type Polyanthraquinones. Chemical Reactivity, Packing Structure, Piezochromism, Conductivity, and Liquid Crystalline and Photonic Properties of the Polymers. Chemistry of Materials, 2003, 15, 4384-4393.	6.7	52
25	Optical- and photocurrent-detected magnetic resonance studies on conjugated polymer/fullerene composites. Physical Review B, 2003, 67, .	3.2	55
26	High open-circuit voltage photovoltaic devices from carbon-nanotube-polymer composites. Journal of Applied Physics, 2003, 93, 1764-1768.	2.5	343
27	Practical doping principles. Applied Physics Letters, 2003, 83, 57-59.	3.3	364
28	Excited state spectroscopy in polymer fullerene photovoltaic devices under operation conditions. Synthetic Metals, 2003, 139, 577-580.	3.9	9
29	Regiochemically Well-Defined Fluorenone-alkylthiophene Copolymers: Synthesis, Spectroscopic Characterization, and Their Postfunctionalization with Oligoaniline. Macromolecules, 2003, 36, 7045-7054.	4.8	47
30	Electrical properties of organic materials. Annual Reports on the Progress of Chemistry Section C, 2003, 99, 87-125.	4.4	39
31	Comparing organic to inorganic photovoltaic cells: Theory, experiment, and simulation. Journal of Applied Physics, 2003, 93, 3605-3614.	2.5	442
32	Charge transport in hybrid nanorod-polymer composite photovoltaic cells. Physical Review B, 2003, 67, .	3.2	254
33	Influence of the solvent on the crystal structure of PCBM and the efficiency of MDMO-PPV:PCBM plastic solar cells. Chemical Communications, 2003, , 2116-2118.	4.1	324
34	Cyanine dye acting both as donor and acceptor in heterojunction photovoltaic devices. Applied Physics Letters, 2003, 82, 3788-3790.	3.3	56
35	Enhancement of polymer electronics via surface states on highly doped polymeric anodes. Journal Physics D: Applied Physics, 2004, 37, 165-170.	2.8	6
36	Anomalous charge transport behavior of Fullerene based diodes. Applied Physics Letters, 2004, 84, 1570-1572.	3.3	22

#	ARTICLE	IF	CITATIONS
37	Postfabrication annealing of pentacene-based photovoltaic cells. Applied Physics Letters, 2004, 85, 6272-6274.	3.3	98
38	Influence of buffer layers on the performance of polymer solar cells. Applied Physics Letters, 2004, 84, 3906-3908.	3.3	113
39	C60 thin-film transistors with low work-function metal electrodes. Applied Physics Letters, 2004, 85, 2396-2398.	3.3	25
40	Infrared photocurrent spectral response from plastic solar cell with low-band-gap polyfluorene and fullerene derivative. Applied Physics Letters, 2004, 85, 5081-5083.	3.3	206
41	Non-Steady State Operation of Polymer/TiO <sub>2</sub> Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2004, 822, S3.19.1.	0.1	1
42	Plasticized conjugated polymers: a possible route to higher voltage solar cells. Materials Research Society Symposia Proceedings, 2004, 836, L3.7.1.	0.1	0
43	CuPc/C60 Solar Cells—Influence of the Indium Tin Oxide Substrate and Device Architecture on the Solar Cell Performance. Japanese Journal of Applied Physics, 2004, 43, 1305-1311.	1.5	7
44	Effects of Different Materials Used for Internal Floating Electrode on the Photovoltaic Properties of Tandem Type Organic Solar Cell. Japanese Journal of Applied Physics, 2004, 43, 2352-2356.	1.5	28
45	Polymer solar cells with novel fullerene-based acceptor. Thin Solid Films, 2004, 451-452, 43-47.	1.8	46
46	Material and device concepts for organic photovoltaics: towards competitive efficiencies. Thin Solid Films, 2004, 451-452, 503-507.	1.8	138
47	Electrical aspects of operation of polymer—fullerene solar cells. Thin Solid Films, 2004, 451-452, 493-497.	1.8	22
48	New conjugated polyketanils: tuning of optical properties via chain design and protonic doping. Thin Solid Films, 2004, 453-454, 362-366.	1.8	10
49	Factors limiting the efficiency of molecular photovoltaic devices. Physical Review B, 2004, 69, .	3.2	178
50	Analysis of the photovoltaic efficiency of a molecular solar cell based on a two-level system. Applied Physics A: Materials Science and Processing, 2004, 79, 15-20.	2.3	8
51	Mechanisms controlling the efficiency of polymer solar cells. Applied Physics A: Materials Science and Processing, 2004, 79, 21-25.	2.3	72
52	Low bandgap alternating polyfluorene copolymers in plastic photodiodes and solar cells. Applied Physics A: Materials Science and Processing, 2004, 79, 31-35.	2.3	174
53	Effect of Temperature and Illumination on the Electrical Characteristics of Polymer—Fullerene Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2004, 14, 38-44.	14.9	519
54	Efficient Electron Injection from a Bilayer Cathode Consisting of Aluminum and Alcohol-/Water-Soluble Conjugated Polymers. Advanced Materials, 2004, 16, 1826-1830.	21.0	406

#	ARTICLE	IF	CITATIONS
55	Patterns of efficiency and degradation of composite polymer solar cells. Solar Energy Materials and Solar Cells, 2004, 83, 247-262.	6.2	118
56	Organic photovoltaics: technology and market. Solar Energy Materials and Solar Cells, 2004, 83, 273-292.	6.2	1,058
57	Flexible large area polymer solar cells based on poly(3-hexylthiophene)/fullerene. Solar Energy Materials and Solar Cells, 2004, 85, 13-13.	6.2	47
58	Polymers containing fullerene or carbon nanotube structures. Progress in Polymer Science, 2004, 29, 1079-1141.	24.7	436
59	Organic Optoelectronic Devices. HKIE Transactions, 2004, 11, 44-52.	0.1	1
60	Photovoltaic action of conjugated polymer/fullerene bulk heterojunction solar cells using novel PPE-PPV copolymers. Journal of Materials Chemistry, 2004, 14, 3462-3467.	6.7	114
61	Efficient thin-film organic solar cells based on pentacene/C60 heterojunctions. Applied Physics Letters, 2004, 85, 5427-5429.	3.3	488
62	Efficient Photodetectors Fabricated from a Metal-Containing Conjugated Polymer by a Multilayer Deposition Process. Chemistry of Materials, 2004, 16, 365-367.	6.7	36
63	Fluorene-based low band-gap copolymers for high performance photovoltaic devices. Applied Physics Letters, 2004, 84, 1653-1655.	3.3	194
64	Novel Regiospecific MDMOâ”PPV Copolymer with Improved Charge Transport for Bulk Heterojunction Solar Cells. Journal of Physical Chemistry B, 2004, 108, 5235-5242.	2.6	86
65	Low bandgap polymers for photon harvesting in bulk heterojunction solar cells. Journal of Materials Chemistry, 2004, 14, 1077.	6.7	667
66	Correlation between oxidation potential and open-circuit voltage of composite solar cells based on blends of polythiophenes/ fullerene derivative. Applied Physics Letters, 2004, 84, 1609-1611.	3.3	420
67	Polymer Photovoltaic Devices Fabricated with Blend MEHPPV and Organic Small Molecules. Journal of Physical Chemistry B, 2004, 108, 3451-3456.	2.6	44
68	Conjugated Polymer Photovoltaic Cells. Chemistry of Materials, 2004, 16, 4533-4542.	6.7	2,055
69	Insertion of Thin Interlayers under the Negative Electrode of C60Schottky-Type Photovoltaic Cells. Journal of Physical Chemistry B, 2004, 108, 1-3.	2.6	49
70	Conjugated Block Copolymers for Photovoltaics: Optimization of Photoelectric Power Conversion Efficiency in Both Space and Energy/Time Domains. , 2004, , .		0
71	Synthesis, characterization and optical properties of oligoketanils containing carbonâ”carbon double bond in the main chain. Synthetic Metals, 2004, 143, 331-339.	3.9	29
72	Organic solar cells: An overview. Journal of Materials Research, 2004, 19, 1924-1945.	2.6	2,242

#	ARTICLE	IF	CITATIONS
73	Methanofullerenes Used as Electron Acceptors in Polymer Photovoltaic Devices. Journal of Physical Chemistry B, 2004, 108, 11921-11926.	2.6	123
74	Effect of metal electrodes on the performance of polymer:fullerene bulk heterojunction solar cells. Applied Physics Letters, 2004, 85, 970-972.	3.3	134
75	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2004, 108, 8106-8118.	2.6	584
76	Mixed Alkyl- and Alkoxy-Substituted Poly[(phenylene ethynylene)-alt-(phenylene vinylene)] Hybrid Polymers: Synthesis and Photophysical Properties. Macromolecular Chemistry and Physics, 2004, 205, 2105-2115.	2.2	12
77	Simulation of light intensity dependent current characteristics of polymer solar cells. Journal of Applied Physics, 2004, 95, 2816-2819.	2.5	237
78	23.1: Efficient Electron Injection from Bilayer Cathode with High Work Function Metal. Digest of Technical Papers SID International Symposium, 2004, 35, 892.	0.3	0
79	Non-steady-state operation of polymer/TiO <sub>2</sub> photovoltaic devices. , 2004, , .		0
80	Characterization of potential donor acceptor pairs for polymer solar cells by ESR, optical, and electrochemical investigations. , 2004, , .		22
81	Efficient hybrid polymer/TiO <sub>2</sub> solar cells using a multilayer structure. , 2004, , .		0
82	Photovoltaic devices from self-doped polymers. , 2005, 5938, 72.		4
83	Enhanced efficiency of polymer: fullerene bulk heterojunction solar cells with the insertion of thin Pyronin B layer near the Al electrode. , 2005, , .		3
84	Optimum energy levels and offsets for organic donor/acceptor binary photovoltaic materials and solar cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 251-256.	3.5	15
85	The influence of the optoelectronic properties of poly(3-alkylthiophenes) on the device parameters in flexible polymer solar cells. Organic Electronics, 2005, 6, 65-77.	2.6	197
86	High-mobility n-channel organic field-effect transistors based on epitaxially grown C60 films. Organic Electronics, 2005, 6, 105-110.	2.6	129
87	High-efficiency electron injection cathode of Au for polymer light-emitting devices. Organic Electronics, 2005, 6, 118-128.	2.6	140
88	Properties of an alternating copolymer and its applications in LEDs and photovoltaic cells. Thin Solid Films, 2005, 477, 7-13.	1.8	13
89	Phenylene-ethynylene/phenylene-vinylene hybrid polymers: optical and electrochemical characterization, comparison with poly[2-methoxy-5-(3- $\alpha$ -dimethyloctyloxy)-1,4-phenylene vinylene] and application in flexible polymer solar cells. Thin Solid Films, 2005, 474, 201-210.	1.8	53
90	Monolayer passivation of the transparent electrode in organic solar cells. Thin Solid Films, 2005, 488, 270-273.	1.8	37

#	ARTICLE	IF	CITATIONS
91	Electroabsorption studies of organic bulk-heterojunction solar cells. Thin Solid Films, 2005, 493, 170-174.	1.8	21
92	The effect of side chains on the performance of solar cells fabricated from poly[2-methoxy-5-(2-ethylhexoxy)-1,4-phenylene vinylene] and C60 dicarboxylate. Thin Solid Films, 2005, 489, 251-256.	1.8	13
93	Organic solar cells using inverted layer sequence. Thin Solid Films, 2005, 491, 298-300.	1.8	177
94	Photovoltaic cells based on the blend of MEH-PPV and polymers with substituents containing C60 moieties. Solar Energy Materials and Solar Cells, 2005, 85, 241-249.	6.2	23
95	Optimal energy offsets for organic solar cells containing a donor/acceptor pair. Solar Energy Materials and Solar Cells, 2005, 85, 261-267.	6.2	37
96	Interface modification to optimize charge separation in cyanine heterojunction photovoltaic devices. Solar Energy Materials and Solar Cells, 2005, 87, 817-824.	6.2	15
97	Comparison of normal and inverse poly(3-hexylthiophene)/fullerene solar cell architectures. Solar Energy Materials and Solar Cells, 2005, 85, 277-283.	6.2	170
98	Flexible Conjugated Polymer-Based Plastic Solar Cells: From Basics to Applications. Proceedings of the IEEE, 2005, 93, 1429-1439.	21.3	149
99	Effects of solvent and annealing on the improved performance of solar cells based on poly(3-hexylthiophene): Fullerene. Applied Physics Letters, 2005, 86, 2011-20.	3.3	235
100	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics. Nature Materials, 2005, 4, 138-142.	27.5	1,793
101	Diphenylmethanofullerenes: New and Efficient Acceptors in Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2005, 15, 1979-1987.	14.9	151
102	Enhanced Photocurrent Spectral Response in Low-Bandgap Polyfluorene and C70-Derivative-Based Solar Cells. Advanced Functional Materials, 2005, 15, 1665-1670.	14.9	166
103	Synthesis, Photophysics, and Photoresponse of Fullerene-Based Azoaromatic Dyads. Chemistry - A European Journal, 2005, 11, 5765-5776.	3.3	16
104	Morphology and photophysical properties of phenyleneethynylene oligomer. Polymer, 2005, 46, 10952-10959.	3.8	13
105	Organic solar cell optimizations. Journal of Materials Science, 2005, 40, 1429-1443.	3.7	63
106	Polymer-Fullerene Bulk Heterojunction Solar Cells. MRS Bulletin, 2005, 30, 33-36.	3.5	171
107	Variable band gap conjugated polymers for optoelectronic and redox applications. Journal of Materials Research, 2005, 20, 3188-3198.	2.6	44
108	Enhanced Mobility of Organic Field-Effect Transistors with Epitaxially Grown C <sub>60</sub> Film by <i>in-situ</i> Heat Treatment of the Organic Dielectric. Materials Research Society Symposia Proceedings, 2005, 871, 1.	0.1	3

#	ARTICLE	IF	CITATIONS
109	Organic and plastic solar cells. , 2005, , 419-447.		2
110	Exploring the limits of hybrid TiO <sub>2</sub> /conjugated polymer photovoltaic cells. , 2005, 5938, 105.		1
111	Photovoltaic effect in poly-dioctyl-phenylene-ethynylene-C60 cells upon donor and acceptor excitation. Applied Physics Letters, 2005, 87, 113506.	3.3	11
112	Photoconductivity in Donor~Acceptor Polyferrocenylsilane~Fullerene Composite Films. Chemistry of Materials, 2005, 17, 5770-5773.	6.7	23
113	Branched thiophene-based oligomers as electron acceptors for organic photovoltaics. Journal of Materials Chemistry, 2005, 15, 2220.	6.7	33
114	Plastic Solar Cells Based on Novel PPE-PPV-Copolymers. Molecular Crystals and Liquid Crystals, 2005, 426, 255-263.	0.9	18
115	I~V characteristics of dark and illuminated PPV-PCBM blends solar cells. Synthetic Metals, 2005, 148, 245-250.	3.9	45
116	Synthesis and photovoltaic properties of the copolymers of 2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylene vinylene and 2,5-thienylene-vinylene. Synthetic Metals, 2005, 150, 297-304.	3.9	59
117	Luminescent monomer of substituted tetrasterylpyrene and poly(p-phenylenevinylene) derivative with pyrene segments: Synthesis and photophysics. Synthetic Metals, 2005, 155, 125-129.	3.9	27
118	Optimizing Organic Solar Cells in Both Space and Energy Domains. Synthetic Metals, 2005, 154, 65-68.	3.9	7
119	Effect of electron-transport polymer addition to polymer/fullerene blend solar cells. Synthetic Metals, 2005, 152, 105-108.	3.9	30
120	Efficient electron injection from bilayer cathode with aluminum as cathode. Synthetic Metals, 2005, 153, 197-200.	3.9	9
121	Efficient electron injection from bilayer cathode consisting of aluminum and alcohol/water-soluble conjugated polymers. Journal of the Society for Information Display, 2005, 13, 123.	2.1	4
122	Light intensity dependence of open-circuit voltage of polymer:fullerene solar cells. Applied Physics Letters, 2005, 86, 123509.	3.3	1,145
123	Flexible, conjugated polymer-fullerene-based bulk-heterojunction solar cells: Basics, encapsulation, and integration. Journal of Materials Research, 2005, 20, 3224-3233.	2.6	165
124	Chlorophyll-layer-inserted poly(3-hexyl-thiophene) solar cell having a high light-to-current conversion efficiency up to 1.48%. Applied Physics Letters, 2005, 87, 123102.	3.3	34
125	All-thiophene donor~acceptor blends: photophysics, morphology and photoresponse. Journal of Materials Chemistry, 2005, 15, 895-901.	6.7	20
126	Control of Cationic Conjugated Polymer Performance in Light Emitting Diodes by Choice of Counterion. Journal of the American Chemical Society, 2006, 128, 14422-14423.	13.7	191



#	ARTICLE	IF	CITATIONS
127	Transition metal oxides as the buffer layer for polymer photovoltaic cells. Applied Physics Letters, 2006, 88, 073508.	3.3	953
128	Device Modeling of Nano-Structured Solar Cells. , 2006, , 45-80.		4
129	Triphenylamine- $\pi$ -Oligothiophene Conjugated Systems as Organic Semiconductors for Opto-Electronics. Chemistry of Materials, 2006, 18, 2584-2590.	6.7	176
130	Open circuit voltage of stacked bulk heterojunction organic solar cells. Applied Physics Letters, 2006, 88, 073514.	3.3	106
131	Physics of organic bulk heterojunction devices for photovoltaic applications. Journal of Applied Physics, 2006, 99, 104503.	2.5	227
132	Fullerene Thin Films as Photovoltaic Material. , 2006, , 361-443.		13
133	Wavelength-selective organic field-effect phototransistors based on dye-doped poly-3-hexylthiophene. Applied Physics Letters, 2006, 89, 092110.	3.3	23
134	On the improvement of the open circuit voltage of plastic solar cells by the presence of a thin aluminium oxide layer at the interface organic/aluminium. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, R70-R72.	1.8	18
135	Light intensity, temperature, and thickness dependence of the open-circuit voltage in solid-state dye-sensitized solar cells. Physical Review B, 2006, 74, .	3.2	166
136	Enhanced Open-Circuit Voltage in Subphthalocyanine/C60 Organic Photovoltaic Cells. Journal of the American Chemical Society, 2006, 128, 8108-8109.	13.7	454
137	Efficient inverted polymer solar cells. Applied Physics Letters, 2006, 88, 253503.	3.3	743
138	Use of a Ruthenium-Containing Conjugated Polymer as a Photosensitizer in Photovoltaic Devices Fabricated by a Layer-by-Layer Deposition Process. Langmuir, 2006, 22, 3368-3375.	3.5	61
139	Poly(2,7-carbazole) and perylene tetracarboxydiimide: a promising donor/acceptor pair for polymer solar cells. Journal of Materials Chemistry, 2006, 16, 96-100.	6.7	269
140	New C84Derivative and Its Application in a Bulk Heterojunction Solar Cell. Chemistry of Materials, 2006, 18, 3068-3073.	6.7	143
141	Triphenylamine- $\pi$ -Thienylenevinylene Hybrid Systems with Internal Charge Transfer as Donor Materials for Heterojunction Solar Cells. Journal of the American Chemical Society, 2006, 128, 3459-3466.	13.7	757
142	Comparison of Electrode Structures and Photovoltaic Properties of Porphyrin-Sensitized Solar Cells with TiO <sub>2</sub> and Nb, Ge, Zr-Added TiO <sub>2</sub> Composite Electrodes. Langmuir, 2006, 22, 11405-11411.	3.5	115
143	A star-shaped triphenylamine $\pi$ -conjugated system with internal charge-transfer as donor material for hetero-junction solar cells. Chemical Communications, 2006, , 1416.	4.1	61
144	Transparent polymer cathode for organic photovoltaic devices. Synthetic Metals, 2006, 156, 1102-1107.	3.9	76

#	ARTICLE	IF	CITATIONS
145	Thinner-film plastic photovoltaic cells based on different C60 derivatives. <i>Polymers for Advanced Technologies</i> , 2006, 17, 500-505.	3.2	11
146	How to model the behaviour of organic photovoltaic cells. <i>Polymer International</i> , 2006, 55, 583-600.	3.1	358
147	Conjugated polymer photovoltaic devices and materials. <i>Comptes Rendus Chimie</i> , 2006, 9, 568-577.	0.5	84
148	Photoresponse of organic field-effect transistors based on conjugated polymer/fullerene blends. <i>Organic Electronics</i> , 2006, 7, 188-194.	2.6	165
149	A comparison of fluorine tin oxide and indium tin oxide as the transparent electrode for P3OT/TiO <sub>2</sub> solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1034-1040.	6.2	52
150	Bi-layer photovoltaic devices with PPQ as the electron acceptor layer. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1705-1714.	6.2	9
151	Photocarrier generation in organic thin-film solar cells with an organic heterojunction. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1519-1526.	6.2	21
152	Organic solar cells based on the spin-coated blend films of TPA-th-TPA and PCBM. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1815-1827.	6.2	73
153	Photovoltaic activity of a PolyProDOT derivative in a bulk heterojunction solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 3531-3546.	6.2	18
154	Photovoltaic properties of phthalocyanine based p-n diode evaporated onto titanium dioxide. <i>Thin Solid Films</i> , 2006, 499, 369-373.	1.8	22
155	Photoinduced charge and energy transfer in dye-doped conjugated polymers. <i>Thin Solid Films</i> , 2006, 511-512, 581-586.	1.8	32
156	Polymer solar cells with low-bandgap polymers blended with C70-derivative give photocurrent at 1 $\mu$ m. <i>Thin Solid Films</i> , 2006, 511-512, 576-580.	1.8	56
157	Pentacene/perylene co-deposited solar cells. <i>Thin Solid Films</i> , 2006, 511-512, 529-532.	1.8	41
158	Ultimate efficiency of polymer/fullerene bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2006, 88, 093511.	3.3	482
159	Enhancing the efficiency of MEH-PPV and PCBM based polymer solar cells via optimization of device configuration and processing conditions. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1919-1924.	2.6	34
160	Using Self-Assembling Dipole Molecules to Improve Charge Collection in Molecular Solar Cells. <i>Advanced Functional Materials</i> , 2006, 16, 95-100.	14.9	253
161	Covalent Layer-by-Layer Assembly of Conjugated Polymers and CdSe Nanoparticles: Multilayer Structure and Photovoltaic Properties. <i>Advanced Functional Materials</i> , 2006, 16, 542-548.	14.9	136
162	Influence of Solvent Mixing on the Morphology and Performance of Solar Cells Based on Polyfluorene Copolymer/Fullerene Blends. <i>Advanced Functional Materials</i> , 2006, 16, 667-674.	14.9	439

#	ARTICLE	IF	CITATIONS
163	Effects of Photo-oxidation on the Performance of Poly[2-methoxy-5-(3- $\epsilon$ ,7- $\epsilon$ -dimethyloctyloxy)-1,4-phenylene vinylene]:[6,6]-Phenyl C61-Butyric Acid Methyl Ester Solar Cells. Advanced Functional Materials, 2006, 16, 2117-2126.	14.9	108
164	Synthesis of 2,7-Carbazolenevinylene-Based Copolymers and Characterization of Their Photovoltaic Properties. Advanced Functional Materials, 2006, 16, 1694-1704.	14.9	116
165	Design Rules for Donors in Bulk-Heterojunction Solar Cellsâ€”Towards 10â€‰%% Energy-Conversion Efficiency. Advanced Materials, 2006, 18, 789-794.	21.0	4,534
166	Photovoltaic Behaviour of Organic Polymerâ€”PCBM Bulk Hetero Junctions Solar Cells. IETE Journal of Research, 2006, 52, 391-399.	2.6	7
167	Performance enhancement of poly(3- hexylthiophene): methanofullerene bulk-heterojunction solar cells. , 2006, 6334, 27.		2
168	Internal electric field in organic-semiconductor-based photovoltaic devices. Applied Physics Letters, 2006, 89, 223519.	3.3	15
169	Performance improvement of polymer solar cells by using a solution processible titanium chelate as cathode buffer layer. Applied Physics Letters, 2007, 91, 023509.	3.3	64
170	Origin of the open circuit voltage of donor-acceptor solar cells: Do polaronic energy levels play a role?. Applied Physics Letters, 2007, 91, 243502.	3.3	50
171	Photovoltaic response of a polymer p-i-n junction. Applied Physics Letters, 2007, 91, .	3.3	15
172	Operation of a reversed pentacene-fullerene discrete heterojunction photovoltaic device. Applied Physics Letters, 2007, 90, 113505.	3.3	56
173	Photovoltaic enhancement of organic solar cells by a bridged donor-acceptor block copolymer approach. Applied Physics Letters, 2007, 90, 043117.	3.3	97
174	PV and magnetic field effects in poly(3-hexylthiophene)-fullerene cells doped with phthalocyanine soluble derivative. EPJ Applied Physics, 2007, 40, 169-173.	0.7	2
175	Optimisation of the interface â€œorganic material/aluminiumâ€•of CuPc/C60based photovoltaic cells. EPJ Applied Physics, 2007, 40, 163-167.	0.7	24
176	Tailored heterojunctions for efficient thin-film organic solar cells: a photoinduced absorption study. Proceedings of SPIE, 2007, , .	0.8	4
177	Novel donorâ€”acceptor molecules as donors for bulk heterojunction solar cells. Synthetic Metals, 2007, 157, 502-507.	3.9	45
178	Increasing the Open Circuit Voltage of Bulk-Heterojunction Solar Cells by Raising the LUMO Level of the Acceptor. Organic Letters, 2007, 9, 551-554.	4.6	377
179	Polymer Solar Cells. , 2007, , 1-86.		37
180	A fullereneâ€”single wall carbon nanotube complex for polymer bulk heterojunction photovoltaic cells. Journal of Materials Chemistry, 2007, 17, 2406-2411.	6.7	190

#	ARTICLE	IF	CITATIONS
181	Synthesis and Photovoltaic Properties of a Donor-Acceptor Double-Cable Polythiophene with High Content of C60Pendant. <i>Macromolecules</i> , 2007, 40, 1868-1873.	4.8	92
182	Supramolecular Association of Pyrrolidinofullerenes Bearing Chelating Pyridyl Groups and Zinc Phthalocyanine for Organic Solar Cells. <i>Chemistry of Materials</i> , 2007, 19, 5363-5372.	6.7	56
183	Fluorene functionalised sexithiophenes utilising intramolecular charge transfer to extend the photocurrent spectrum in organic solar cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 1055-1062.	6.7	29
184	Radical Salt-Doped Hole Transporters in Organic Photovoltaic Devices. <i>Chemistry of Materials</i> , 2007, 19, 4049-4055.	6.7	12
185	Manipulating regioregular poly(3-hexylthiophene) : [6,6]-phenyl-C61-butyric acid methyl ester blends route towards high efficiency polymer solar cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 3126.	6.7	351
186	A PbS nanocrystal-C60 photovoltaic device for infrared light harvesting. <i>Applied Physics Letters</i> , 2007, 91, 133506.	3.3	49
187	Nanoimprinted large area heterojunction pentacene-C60 photovoltaic device. <i>Applied Physics Letters</i> , 2007, 90, 253502.	3.3	31
188	Polymeric Photovoltaic Devices Based on Tricomponent System Composed of a Blend of Donor and PCBM Acceptor Material. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 471, 137-145.	0.9	4
189	Offset energies at organic semiconductor heterojunctions and their influence on the open-circuit voltage of thin-film solar cells. <i>Physical Review B</i> , 2007, 75, .	3.2	689
190	Conducting Organic Materials and Devices. <i>Semiconductors and Semimetals</i> , 2007, , i-188.	0.7	19
191	Synthesis of a Soluble n-Type Cyano Substituted Polythiophene Derivative: A Potential Electron Acceptor in Polymeric Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10732-10740.	3.1	46
192	Recent Advances in Organic Solar Cells. <i>Advances in OptoElectronics</i> , 2007, 2007, 1-15.	0.6	85
193	A Kelvin Probe Force Microscopy Study of the Photogeneration of Surface Charges in All-Thiophene Photovoltaic Blends. <i>Advanced Functional Materials</i> , 2007, 17, 472-478.	14.9	70
194	Band-Offset Engineering for Enhanced Open-Circuit Voltage in Polymer-Oxide Hybrid Solar Cells. <i>Advanced Functional Materials</i> , 2007, 17, 264-269.	14.9	193
195	Formation of a Ground-State Charge-Transfer Complex in Polyfluorene//[6,6]-Phenyl-C61 Butyric Acid Methyl Ester (PCBM) Blend Films and Its Role in the Function of Polymer/PCBM Solar Cells. <i>Advanced Functional Materials</i> , 2007, 17, 451-457.	14.9	248
196	Solvent Annealing Effect in Polymer Solar Cells Based on Poly(3-hexylthiophene) and Methanofullerenes. <i>Advanced Functional Materials</i> , 2007, 17, 1636-1644.	14.9	1,091
197	Organic Thin-Film Photovoltaic Cells Based on Oligothiophenes with Reduced Bandgap. <i>Advanced Functional Materials</i> , 2007, 17, 2991-2999.	14.9	162
198	Organic Solar Cells by Annealing Stacked Amorphous and Microcrystalline Layers. <i>Advanced Functional Materials</i> , 2007, 17, 2937-2942.	14.9	31

#	ARTICLE	IF	CITATIONS
199	Organic Field-Effect Devices as Tool to Characterize the Bipolar Transport in Polymer-Fullerene Blends: The Case of P3HT-PCBM. <i>Advanced Functional Materials</i> , 2007, 17, 3274-3283.	14.9	98
200	Device Physics of Polymer:Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2007, 19, 1551-1566.	21.0	2,000
201	Polymer Light-Emitting Diodes with Cathodes Printed from Conducting Ag Paste. <i>Advanced Materials</i> , 2007, 19, 810-814.	21.0	108
202	From One- to Three-Dimensional Organic Semiconductors: In Search of the Organic Silicon?. <i>Advanced Materials</i> , 2007, 19, 2045-2060.	21.0	386
203	Molecular Engineering of the Band Gap of $\pi$ -Conjugated Systems: Facing Technological Applications. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1761-1775.	3.9	635
204	Optimization of process parameters for high-efficiency polymer photovoltaic devices based on P3HT:PCBM system. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1187-1193.	6.2	83
205	Preliminary photovoltaic response from a polymer containing p-vinylene-phenylene amine backbone. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1289-1298.	6.2	11
206	Synthesis, characterization and photovoltaic properties of thiophene copolymers containing conjugated side-chain. <i>European Polymer Journal</i> , 2007, 43, 855-861.	5.4	18
207	Concentration dependence of photovoltaic properties of photodiodes based on polymer-fullerene blends. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 137, 5-9.	3.5	7
208	Synthesis and investigation of fullerene-based acceptor materials. <i>Mendeleev Communications</i> , 2007, 17, 175-177.	1.6	24
209	Reverse biased annealing: Effective post treatment tool for polymer/nano-composite solar cells. <i>Organic Electronics</i> , 2007, 8, 396-400.	2.6	24
210	Effects of thin film processing on pentacene/C60 bilayer solar cell performance. <i>Organic Electronics</i> , 2007, 8, 566-574.	2.6	85
211	Novel cationic water-soluble polyfluorene derivatives with ion-transporting side groups for efficient electron injection in PLEDs. <i>Organic Electronics</i> , 2007, 8, 773-783.	2.6	65
212	Solar cells utilizing small molecular weight organic semiconductors. <i>Progress in Photovoltaics: Research and Applications</i> , 2007, 15, 659-676.	8.1	439
213	Conjugated Polymer-Based Organic Solar Cells. <i>Chemical Reviews</i> , 2007, 107, 1324-1338.	47.7	5,925
214	Fabrication of photovoltaic cells using rhenium diimine complex containing polyelectrolytes by the layer-by-layer electrostatic self-assembly method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2007, 17, 223-233.	3.7	12
215	Progress in polymer solar cell. <i>Science Bulletin</i> , 2007, 52, 145-158.	1.7	18
216	The open circuit voltage of encapsulated plastic photovoltaic cells. <i>Dyes and Pigments</i> , 2008, 78, 148-156.	3.7	33

#	ARTICLE	IF	CITATIONS
217	Intensity modulated photocurrent spectroscopy (IMPS) of solid-state polybithiophene-based solar cells. <i>Electrochimica Acta</i> , 2008, 53, 3744-3754.	5.2	30
218	Influence of Alq3/Au cathode on stability and efficiency of a layered organic solar cell in air. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1416-1420.	6.2	74
219	[2.2]Paracyclophane-based molecular systems for the development of organic solar cells. <i>Thin Solid Films</i> , 2008, 516, 7193-7198.	1.8	27
220	Dithienothiophene based polymer as electron donor in plastic solar cells. <i>Thin Solid Films</i> , 2008, 516, 7205-7208.	1.8	22
221	NMR study of the nanomorphology in thin films of polymer blends used in organic PV devices: MDMO-PPV/PCBM. <i>Journal of Polymer Science Part A</i> , 2008, 46, 138-145.	2.3	59
222	Synthesis of terpyridine ligands and their complexation with Zn 2+ and Ru 2+ for optoelectronic applications. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7702-7712.	2.3	50
223	Polymer-Fullerene Composite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 58-77.	13.8	3,926
224	Efficient Polythiophene/Polyfluorene Copolymer Bulk Heterojunction Photovoltaic Devices: Device Physics and Annealing Effects. <i>Advanced Functional Materials</i> , 2008, 18, 2309-2321.	14.9	242
225	A Semi-transparent Plastic Solar Cell Fabricated by a Lamination Process. <i>Advanced Materials</i> , 2008, 20, 415-419.	21.0	308
226	Highly Efficient White Polymer Light-Emitting Diodes Based on Nanometer-Scale Control of the Electron Injection Layer Morphology through Solvent Processing. <i>Advanced Materials</i> , 2008, 20, 1565-1570.	21.0	97
227	Water-Soluble Polyfluorenes as an Electron Injecting Layer in PLEDs for Extremely High Quantum Efficiency. <i>Advanced Materials</i> , 2008, 20, 1624-1629.	21.0	83
228	Fullerene Bisadducts for Enhanced Open-Circuit Voltages and Efficiencies in Polymer Solar Cells. <i>Advanced Materials</i> , 2008, 20, 2116-2119.	21.0	575
229	Polymer Solar Cells That Use Self-Assembled Monolayer-Modified ZnO/Metals as Cathodes. <i>Advanced Materials</i> , 2008, 20, 2376-2382.	21.0	511
230	Organic Photovoltaic Devices Based on a Novel Acceptor Material: Graphene. <i>Advanced Materials</i> , 2008, 20, 3924-3930.	21.0	805
231	Binary Organic Photovoltaic Blends: A Simple Rationale for Optimum Compositions. <i>Advanced Materials</i> , 2008, 20, 3510-3515.	21.0	364
233	Performance and lifetime improvement of polymer/fullerene blend photovoltaic cells with a C60 interlayer. <i>Organic Electronics</i> , 2008, 9, 1022-1025.	2.6	32
234	Optical, electrical and photovoltaic properties of thermally annealed PPHT:DDE blend thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2639-2651.	4.0	11
235	Hybrid bulk heterojunction solar cells from a blend of poly(3-hexylthiophene) and TiO2 nanotubes. <i>Applied Surface Science</i> , 2008, 255, 1916-1920.	6.1	22

#	ARTICLE	IF	CITATIONS
236	Star-shaped conjugated systems derived from dithiafulvenyl-derivatized triphenylamines as active materials for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1170-1174.	6.2	46
237	Tuning the LUMO level of the acceptor to increase the open-circuit voltage of polymer-fullerene solar cells: A quantum chemical study. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1192-1198.	6.2	72
238	The backing layer dependence of open circuit voltage in ZnO/polymer composite solar cells. <i>Thin Solid Films</i> , 2008, 516, 7218-7222.	1.8	45
239	The synthesis and photovoltaic performance of regioregular poly[3-(n-butoxymethyl)thiophene]. <i>Thin Solid Films</i> , 2008, 516, 7176-7180.	1.8	8
240	Photovoltaic cells based on polythiophenes carrying lateral phenyl groups. <i>Thin Solid Films</i> , 2008, 516, 7199-7204.	1.8	37
241	Pentacene/fullerene (C60) heterojunction solar cells: Device performance and degradation mechanisms. <i>Organic Electronics</i> , 2008, 9, 656-660.	2.6	74
242	Enhanced Performance of Bulk Heterojunction Solar Cells Fabricated by Polymer:Fullerene:Carbon-Nanotube Composites. , 2008, , .		2
243	Photocorrosion Inhibition and Enhancement of Photocatalytic Activity for ZnO via Hybridization with C <sub>60</sub> . <i>Environmental Science &amp; Technology</i> , 2008, 42, 8064-8069.	10.0	482
244	Relationship between Film Morphology, Optical, and Conductive Properties of Poly(thienothiophene):[6,6]-Phenyl C-61-Butyric Acid Methyl Ester Bulk Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15973-15979.	3.1	18
245	Small-molecule solar cells—status and perspectives. <i>Nanotechnology</i> , 2008, 19, 424001.	2.6	269
246	Analytical model for the open-circuit voltage and its associated resistance in organic planar heterojunction solar cells. <i>Physical Review B</i> , 2008, 77, .	3.2	198
247	A fullerene silirane derivative to improve the open circuit voltage in a polymer—fullerene solar cell: a theoretical study. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 260-262.	2.4	13
248	Organic solar cells: Structure, materials, critical characteristics, and outlook. <i>Nanotechnologies in Russia</i> , 2008, 3, 242-271.	0.7	36
249	Effect of ZnO Processing on the Photovoltage of ZnO/Poly(3-hexylthiophene) Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9544-9547.	3.1	111
251	Mechanisms and Optimizations of Organic Photoelectric Processes. , 2008, , 1023-1027.		0
252	Organic photovoltaic cells based on an acceptor of soluble graphene. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	196
253	Charge Transport, Photovoltaic, and Thermoelectric Properties of Poly(2,7-Carbazole) and Poly(Indolo[3,2-b<i>i>]Carbazole) Derivatives. <i>Polymer Reviews</i> , 2008, 48, 432-462.	10.9	133
254	Functionalized Methanofullerenes Used as n-Type Materials in Bulk-Heterojunction Polymer Solar Cells and in Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2008, 130, 6444-6450.	13.7	208



#	ARTICLE	IF	CITATIONS
255	Ultraviolet photoelectron spectroscopy and inverse photoemission spectroscopy of [6,6]-phenyl-C61-butyric acid methyl ester in gas and solid phases. Journal of Applied Physics, 2008, 104, .	2.5	105
256	Performance improvement of inverted polymer solar cells with different top electrodes by introducing a MoO <sub>3</sub> buffer layer. Applied Physics Letters, 2008, 93, .	3.3	211
257	Influence of polymer ionization potential on the open-circuit voltage of hybrid polymer/TiO <sub>2</sub> solar cells. Applied Physics Letters, 2008, 92, 053308.	3.3	37
260	Effects of thermal annealing on polymer photovoltaic cells with buffer layers and in situ formation of interfacial layer for enhancing power conversion efficiency. Synthetic Metals, 2008, 158, 908-911.	3.9	29
261	Charge Carrier Formation in Polythiophene/Fullerene Blend Films Studied by Transient Absorption Spectroscopy. Journal of the American Chemical Society, 2008, 130, 3030-3042.	13.7	602
262	Optimizing organic photovoltaics using tailored heterojunctions: A photoinduced absorption study of oligothiophenes with low band gaps. Physical Review B, 2008, 77, .	3.2	99
263	Bulk heterojunction organic solar cells based on merocyanine colorants. Chemical Communications, 2008, , 6489.	4.1	172
264	Toward a Rational Design of Poly(2,7-Carbazole) Derivatives for Solar Cells. Journal of the American Chemical Society, 2008, 130, 732-742.	13.7	1,328
265	Origin of open circuit voltage in planar and bulk heterojunction organic thin-film photovoltaics depending on doped transport layers. Journal of Applied Physics, 2008, 104, 043107.	2.5	116
266	Compositional and Electric Field Dependence of the Dissociation of Charge Transfer Excitons in Alternating Polyfluorene Copolymer/Fullerene Blends. Journal of the American Chemical Society, 2008, 130, 7721-7735.	13.7	544
267	Small Bandgap Polymers for Organic Solar Cells<i>(Polymer Material Development in the Last 5) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	10.9	622
268	Self-Assembling Fullerenes for Improved Bulk-Heterojunction Photovoltaic Devices. Journal of the American Chemical Society, 2008, 130, 17290-17292.	13.7	107
269	Investigation on polymer anode design for flexible polymer solar cells. Applied Physics Letters, 2008, 92, 233308.	3.3	142
270	Polymer Photovoltaic Devices Using Fully Regioregular Poly[(2-methoxy-5-(3- $\epsilon$ ,7- $\epsilon$ -dimethyloctyloxy))-1,4-phenylenevinylene]. Journal of Physical Chemistry C, 2008, 112, 8507-8510.	3.1	56
271	Novel Anthracene-Core Molecule for the Development of Efficient PCBM-Based Solar Cells. Chemistry of Materials, 2008, 20, 32-34.	6.7	107
272	Enhanced Intersystem Crossing via a High Energy Charge Transfer State in a Perylenediimide~Perylenemonoimide Dyad. Journal of Physical Chemistry A, 2008, 112, 8617-8632.	2.5	61
273	Synthesis of thienyl analogues of PCBM and investigation of morphology of mixtures in P3HT. Beilstein Journal of Organic Chemistry, 2008, 4, 33.	2.2	13
274	ORGANIC DONOR~ACCEPTOR HETEROJUNCTION SOLAR CELLS. Series on Photoconversion of Solar Energy, 2008, , 453-501.	0.2	2



#	ARTICLE	IF	CITATIONS
275	4.8% efficient poly(3-hexylthiophene)-fullerene derivative (1:0.8) bulk heterojunction photovoltaic devices with plasma treated AgO[sub x]/indium tin oxide anode modification. Applied Physics Letters, 2008, 92, 013306.	3.3	47
276	Self-organization effect in poly(3-hexylthiophene): methanofullerenes solar cells. Chinese Physics B, 2008, 17, 3143-3148.	1.4	16
277	Performance Improvement of Bulk Heterojunction Organic Photovoltaic Cell by Addition of a Hole Transport Material. Chinese Physics Letters, 2008, 25, 1091-1093.	3.3	2
278	Independent control of open-circuit voltage of organic solar cells by changing film thickness of MoO3 buffer layer. Applied Physics Letters, 2008, 92, 243309.	3.3	83
279	Self-assembled monolayer modified ZnO/metal bilayer cathodes for polymer/fullerene bulk-heterojunction solar cells. Applied Physics Letters, 2008, 92, .	3.3	167
280	Dark carrier recombination in organic solar cell. Applied Physics Letters, 2008, 93, .	3.3	26
281	Polymer photovoltaics from all-water-solution processing. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	1
282	Planar polymer photovoltaic cells with millimeter interelectrode spacing. Journal of Applied Physics, 2008, 104, 084512.	2.5	4
283	Optimal negative electrodes for poly(3-hexylthiophene): [6,6]-phenyl C61-butyric acid methyl ester bulk heterojunction photovoltaic devices. Applied Physics Letters, 2008, 92, .	3.3	172
284	Modelling the effect of the structure of polymer photocells on their absorption spectrum. , 2008, , .		0
285	Mono-cyclopropanated Fullerene Dimer C120O and Its Application in a Bulk Heterojunction Solar Cell. Chemistry Letters, 2008, 37, 750-751.	1.3	7
286	Influence of the Work Function of Chemically Modified Indiumâ€“Tinâ€“Oxide Electrodes on the Open-circuit Voltage of Heterojunction Photovoltaic Cells. Chemistry Letters, 2008, 37, 778-779.	1.3	23
287	Origin of the open-circuit voltage in multilayer heterojunction organic solar cells. Applied Physics Letters, 2008, 93, .	3.3	180
289	Effect of metal cathode reflectance on the exciton-dissociation efficiency in heterojunction organic solar cells. Applied Physics Letters, 2009, 94, 103303.	3.3	50
290	Enhanced open-circuit voltage in polymer solar cells. Applied Physics Letters, 2009, 95, .	3.3	124
291	High efficiency polymer solar cells with internal quantum efficiency approaching 100%. , 2009, , .		3
292	Increase in Open-circuit Voltage and Improved Stability of Organic Solar Cells by Inserting a Molybdenum Trioxide Buffer Layer. Materials Research Society Symposia Proceedings, 2009, 1154, 1.	0.1	0
293	Effect of Active Layer Thickness on Open Circuit Voltage in Organic Photovoltaic Devices. Japanese Journal of Applied Physics, 2009, 48, 121501.	1.5	19

#	ARTICLE	IF	CITATIONS
294	Broad spectral sensitivity and improved efficiency in CuPc/Sub-Pc organic photovoltaic devices. Journal Physics D: Applied Physics, 2009, 42, 015103.	2.8	46
295	Light-induced EPR spectroscopy of charge carriers photoinduced in polymer/fullerene bulk heterojunctions. Journal of Renewable and Sustainable Energy, 2009, 1, 043110.	2.0	9
296	Effect of illumination intensity and temperature on open circuit voltage in organic solar cells. Applied Physics Letters, 2009, 94, .	3.3	48
297	Substrate effects on the interface electronic properties of organic photovoltaic devices with an inverted C60/CuPc junction. Journal of Applied Physics, 2009, 106, .	2.5	15
298	<i>In situ</i> monitoring the drying kinetics of knife coated polymer-fullerene films for organic solar cells. Journal of Applied Physics, 2009, 106, .	2.5	80
299	Organic thin film photovoltaic cells based on planar and mixed heterojunctions between fullerene and a low bandgap oligothiophene. Journal of Applied Physics, 2009, 106, .	2.5	40
300	Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. Advanced Functional Materials, 2009, 19, 894-904.	14.9	470
301	Material Solubility-Photovoltaic Performance Relationship in the Design of Novel Fullerene Derivatives for Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2009, 19, 779-788.	14.9	355
302	Doping of the Metal Oxide Nanostructure and its Influence in Organic Electronics. Advanced Functional Materials, 2009, 19, 1241-1246.	14.9	169
303	Electron-Rich Alcohol-Soluble Neutral Conjugated Polymers as Highly Efficient Electron-Injecting Materials for Polymer Light-Emitting Diodes. Advanced Functional Materials, 2009, 19, 2457-2466.	14.9	98
304	The Energy of Charge-Transfer States in Electron Donor-Acceptor Blends: Insight into the Energy Losses in Organic Solar Cells. Advanced Functional Materials, 2009, 19, 1939-1948.	14.9	907
305	Tuning Conversion Efficiency in Metallo Endohedral Fullerene-Based Organic Photovoltaic Devices. Advanced Functional Materials, 2009, 19, 2332-2337.	14.9	108
306	Copolymers of Cyclopentadithiophene and Electron-Deficient Aromatic Units Designed for Photovoltaic Applications. Advanced Functional Materials, 2009, 19, 3262-3270.	14.9	146
307	Effect of Alkyl Side-Chain Length on Photovoltaic Properties of Poly(3-alkylthiophene)/PCBM Bulk Heterojunctions. Advanced Functional Materials, 2009, 19, 3300-3306.	14.9	114
308	Nanoscale Phase Separation and High Photovoltaic Efficiency in Solution-Processed, Small-Molecule Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2009, 19, 3063-3069.	14.9	871
309	Evaluating Carrier Accumulation in Degraded Bulk Heterojunction Organic Solar Cells by a Thermally Stimulated Current Technique. Advanced Functional Materials, 2009, 19, 3934-3940.	14.9	121
310	Polymer-Fullerene Bulk-Heterojunction Solar Cells. Advanced Materials, 2009, 21, 1323-1338.	21.0	3,060
311	Solution-Processable Near-IR Photodetectors Based on Electron Transfer from PbS Nanocrystals to Fullerene Derivatives. Advanced Materials, 2009, 21, 683-687.	21.0	121

#	ARTICLE	IF	CITATIONS
312	Recent Progress in Polymer Solar Cells: Manipulation of Polymer:Fullerene Morphology and the Formation of Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2009, 21, 1434-1449.	21.0	1,211
313	Characterization of Charge Collection in Photodiodes under Mechanical Strain: Comparison between Organic Bulk Heterojunction and Amorphous Silicon. <i>Advanced Materials</i> , 2009, 21, 1855-1859.	21.0	31
314	Efficient Polymer Solar Cells with Thin Active Layers Based on Alternating Polyfluorene Copolymer/Fullerene Bulk Heterojunctions. <i>Advanced Materials</i> , 2009, 21, 4238-4242.	21.0	242
316	An Ionic Molecular Glass as Electron Injection Layer for Efficient Polymer Light-Emitting Diode. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1484-1491.	3.9	13
317	Heteroanalogues of PCBM: N-Bridged Imino-PCBMs for Organic Field-Effect Transistors. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1592-1595.	13.8	67
318	New anthracene-containing phenylene- or thienylene-vinylene copolymers: Synthesis, characterization, photophysics, and photovoltaics. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1173-1181.	2.6	6
319	Fabrication and processing of polymer solar cells: A review of printing and coating techniques. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 394-412.	6.2	2,872
320	Silicon/organic semiconductor heterojunctions for solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2775-2781.	1.8	26
321	Soluble narrow-band-gap copolymers containing novel cyclopentadithiophene units for organic photovoltaic cell applications. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2073-2092.	2.3	48
322	Supramolecular assembly of H-bonded side-chain polymers containing conjugated pyridyl H-acceptor pendants and various low-band-gap H-donor dyes bearing cyanoacrylic acid groups for organic solar cell applications. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5998-6013.	2.3	16
323	Endohedral fullerenes for organic photovoltaic devices. <i>Nature Materials</i> , 2009, 8, 208-212.	27.5	599
324	Polymer solar cells with enhanced open-circuit voltage and efficiency. <i>Nature Photonics</i> , 2009, 3, 649-653.	31.4	3,015
325	Bulk heterojunction solar cells with internal quantum efficiency approaching 100%. <i>Nature Photonics</i> , 2009, 3, 297-302.	31.4	3,903
326	Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. <i>Materials Science and Engineering Reports</i> , 2009, 63, 81-99.	31.8	285
327	Improvement of stability for organic solar cells by using molybdenum trioxide buffer layer. <i>Thin Solid Films</i> , 2009, 518, 537-540.	1.8	38
328	Origin of the open-circuit voltage of organic thin-film solar cells based on conjugated polymers. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 759-761.	6.2	77
329	Inverted and transparent polymer solar cells prepared with vacuum-free processing. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 497-500.	6.2	148
330	Enhanced charge collection in polymer photovoltaic cells by using an ethanol-soluble conjugated polyfluorene as cathode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 604-608.	6.2	106

#	ARTICLE	IF	CITATIONS
331	Aluminum phthalocyanine chloride/C60 organic photovoltaic cells with high open-circuit voltages. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1688-1691.	6.2	67
332	Low band gap vinylene compounds with triphenylamine and benzothiadiazole segments for use in photovoltaic cells. <i>Organic Electronics</i> , 2009, 10, 1320-1333.	2.6	59
333	Improved efficiency in organic solar cells through fluorinated interlayer induced crystallization. <i>Organic Electronics</i> , 2009, 10, 1583-1589.	2.6	12
334	Synthesis of a soluble conjugated copolymer based on dialkyl-substituted dithienothiophene and its application in photovoltaic cells. <i>Polymer</i> , 2009, 50, 3595-3599.	3.8	24
335	The influence of side chains on solubility and photovoltaic performance of dithiophene- <i>thienopyrazine</i> small band gap copolymers. <i>Polymer</i> , 2009, 50, 4564-4570.	3.8	50
336	Substrate dependence of energy level alignment at the donor-acceptor interface in organic photovoltaic devices. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 174, 35-39.	1.7	32
337	Morphology and properties of poly(2-methoxy-5-(2-ethyl-hexyloxy)-p-phenylenevinylene) (MEH-PPV): N,N'-bis(1-ethylpropyl)-3,4:9,10-perylene bis(tetracarboxyl diimide) (EP-PTC) based solar cells. <i>Current Applied Physics</i> , 2009, 9, 950-955.	2.4	6
338	Higher fullerenes as electron acceptors for polymer solar cells: A quantum chemical study. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1827-1832.	6.2	29
339	Development of Novel Conjugated Donor Polymers for High-Efficiency Bulk-Heterojunction Photovoltaic Devices. <i>Accounts of Chemical Research</i> , 2009, 42, 1709-1718.	15.6	1,346
340	Effect of temperature on the performance of CuPc/C60 photovoltaic device. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 015102.	2.8	21
341	Synthesis of Conjugated Polymers for Organic Solar Cell Applications. <i>Chemical Reviews</i> , 2009, 109, 5868-5923.	47.7	3,739
342	Molecular and Morphological Influences on the Open Circuit Voltages of Organic Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , 2009, 131, 9281-9286.	13.7	491
343	New diarylmethanofullerene derivatives and their properties for organic thin-film solar cells. <i>Beilstein Journal of Organic Chemistry</i> , 2009, 5, 7.	2.2	15
344	Modern photoelectric and photochemical methods of solar power conversion. <i>Russian Journal of General Chemistry</i> , 2009, 79, 2543-2555.	0.8	1
345	Photoconductance of Bulk Heterojunctions with Tunable Nanomorphology Consisting of P3HT and Naphthalene Diimide Siloxane Oligomers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7863-7869.	3.1	3
346	Thermally Decomposable Lithium Nitride as an Electron Injection Material for Highly Efficient and Stable OLEDs. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13386-13390.	3.1	22
347	Morphological Stabilization of Polymer Photovoltaic Cells by Using Cross-Linkable Poly(3-(5-hexenyl)thiophene). <i>Macromolecules</i> , 2009, 42, 1610-1618.	4.8	185
348	Molecular Aggregation State and Photovoltaic Properties of Chlorophyll-Doped Conducting Poly(3-hexylthiophene)/MCM-41 Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1544-1552.	8.0	5

#	ARTICLE	IF	CITATIONS
349	Tunable Novel Cyclopentadithiophene-Based Copolymers Containing Various Numbers of Bithiazole and Thienyl Units for Organic Photovoltaic Cell Applications. <i>Macromolecules</i> , 2009, 42, 3681-3693.	4.8	99
350	Charge Transfer Dynamics in Polymer~Fullerene Blends for Efficient Solar Cells. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16513-16517.	2.6	47
351	Thienylsilane-Modified Indium Tin Oxide as an Anodic Interface in Polymer/Fullerene Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 279-288.	8.0	33
352	Fast-Grown Interpenetrating Network in Poly(3-hexylthiophene): Methanofullerenes Solar Cells Processed with Additive. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7946-7953.	3.1	174
353	Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. <i>Journal of Materials Chemistry</i> , 2009, 19, 5794.	6.7	165
354	Effects of surface modification of indium tin oxide electrodes on the performance of molecular multilayer organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2009, 19, 5298.	6.7	50
355	Enhancement of the Morphology and Open Circuit Voltage in Bilayer Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11408-11415.	3.1	63
356	Hole Transport in Poly[2,7-(9,9-dihexylfluorene)-alt-bithiophene] and High-Efficiency Polymer Solar Cells from Its Blends with PCBM. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1467-1473.	8.0	44
357	Main-Chain Fullerene Polymers for Photovoltaic Devices. <i>Macromolecules</i> , 2009, 42, 3549-3558.	4.8	44
358	Donor~Acceptor Molecule as the Acceptor for Polymer-Based Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7882-7886.	3.1	43
359	Effect of UV~ozone treatment on ITO and post-annealing on the performance of organic solar cells. <i>Synthetic Metals</i> , 2009, 159, 754-756.	3.9	26
360	Influence of metal cathode for organic photovoltaic device performance. <i>Synthetic Metals</i> , 2009, 159, 1910-1913.	3.9	37
361	The photovoltaic behaviors of PPV- and PPE-type conjugated polymers featured with diketopyrrolopyrrole (DPP) units. <i>Synthetic Metals</i> , 2009, 159, 1991-1995.	3.9	14
362	Terthiophene-cyanovinylene ~conjugated polymers as donor material for organic solar cells. <i>Synthetic Metals</i> , 2009, 159, 2534-2538.	3.9	13
363	The fabrication and analysis of a PbS nanocrystal:C60bilayer hybrid photovoltaic system. <i>Nanotechnology</i> , 2009, 20, 245202.	2.6	24
364	In-Situ Growing CdS Single-Crystal Nanorods via P3HT Polymer as a Soft Template for Enhancing Photovoltaic Performance. <i>Macromolecules</i> , 2009, 42, 6558-6563.	4.8	107
365	Incorporation of Thienylenevinylene and Triphenylamine Moieties into Polythiophene Side Chains for All-Polymer Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5879-5885.	3.1	27
366	Ambient effects on fullerene/copper phthalocyanine photovoltaic interface. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	47

#	ARTICLE	IF	CITATIONS
367	Fully Spray Coated Organic Photodiodes. Nano Letters, 2009, 9, 980-983.	9.1	219
368	Effects of Layer Thickness and Annealing of PEDOT:PSS Layers in Organic Photodetectors. Macromolecules, 2009, 42, 6741-6747.	4.8	253
369	Penta(organo)[60]fullerenes as acceptors for organic photovoltaic cells. Journal of Materials Chemistry, 2009, 19, 5804.	6.7	64
370	BODIPY derivatives as donor materials for bulk heterojunction solar cells. Chemical Communications, 2009, , 1673.	4.1	319
371	Molecular Bulk Heterojunctions: An Emerging Approach to Organic Solar Cells. Accounts of Chemical Research, 2009, 42, 1719-1730.	15.6	669
372	Multi-donor molecular bulk heterojunction solar cells: improving conversion efficiency by synergistic dye combinations. Journal of Materials Chemistry, 2009, 19, 2298.	6.7	138
373	Critical Interfaces in Organic Solar Cells and Their Influence on the Open-Circuit Voltage. Accounts of Chemical Research, 2009, 42, 1758-1767.	15.6	281
374	Effect of Extended Thiophene Segments in Small Band Gap Polymers with Thienopyrazine. Chemistry of Materials, 2009, 21, 1663-1669.	6.7	53
375	Improvement of the Light-Harvesting Efficiency in Polymer/Fullerene Bulk Heterojunction Solar Cells by Interfacial Dye Modification. ACS Applied Materials & Interfaces, 2009, 1, 804-810.	8.0	214
376	Coupled optoelectronic simulation of organic bulk-heterojunction solar cells: Parameter extraction and sensitivity analysis. Journal of Applied Physics, 2009, 106, .	2.5	135
377	Isomeric iminofullerenes as acceptors in bulk heterojunction organic solar cells. Journal of Materials Chemistry, 2009, 19, 5624.	6.7	42
378	Nanoscale functional interlayers formed through spontaneous vertical phase separation in polymer photovoltaic devices. Journal of Materials Chemistry, 2009, 19, 6865.	6.7	73
379	Synthesis, Characterization, and Devices of a Series of Alternating Copolymers for Solar Cells. Chemistry of Materials, 2009, 21, 3491-3502.	6.7	118
380	Synthesis and photovoltaic performance of a series of small band gap polymers. Journal of Materials Chemistry, 2009, 19, 5336.	6.7	92
381	Improved performance of poly(3-hexylthiophene)/zinc oxide hybrid photovoltaics modified with interfacial nanocrystalline cadmium sulfide. Applied Physics Letters, 2009, 95, .	3.3	66
382	A squaraine-phthalocyanine ensemble: towards molecular panchromatic sensitizers in solar cells. Chemical Communications, 2009, , 4500.	4.1	58
383	Photocurrent hysteresis by ion motion within conjugated polyelectrolyte electron transporting layers. Journal of Materials Chemistry, 2009, 19, 211-214.	6.7	20
384	Ultrafast vibrational spectroscopy of charge-carrier dynamics in organic photovoltaic materials. Physical Chemistry Chemical Physics, 2009, 11, 2575.	2.8	62



#	ARTICLE	IF	CITATIONS
385	An inverted organic solar cell with an ultrathin Ca electron-transporting layer and MoO <sub>3</sub> hole-transporting layer. Applied Physics Letters, 2009, 95, .	3.3	164
386	Structure-property relationships of small bandgap conjugated polymers for solar cells. Dalton Transactions, 2009, , 10032.	3.3	71
387	Poly(bisthiophene-carbazole-fullerene) Double-Cable Polymer As New Donor-acceptor Material: Preparation and Electrochemical and Spectroscopic Characterization. Journal of Physical Chemistry B, 2009, 113, 14087-14093.	2.6	36
388	A model for the current-voltage characteristics of organic bulk heterojunction solar cells. Journal Physics D: Applied Physics, 2009, 42, 055102.	2.8	25
389	Time-Dependent Morphology Evolution by Annealing Processes on Polymer:Fullerene Blend Solar Cells. Advanced Functional Materials, 2009, 19, 866-874.	14.9	281
390	Solution-processable polymer solar cells from a poly(3-hexylthiophene)/[6,6]-phenyl C <sub>61</sub> -butyric acidmethyl ester concentration graded bilayers. Applied Physics Letters, 2009, 95, 043505.	3.3	62
391	Effect of fabrication processes on bulk heterojunctions (BHJ) photovoltaic device performance. Proceedings of SPIE, 2009, , .	0.8	0
392	The study on organic solar cells based on bathocuproine as an exciton blocking layer. , 2010, , .		0
393	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics. , 2010, , 70-74.		4
394	Nanocrystal Growth and Improved Performance of Small Molecule Bulk Heterojunction Solar Cells Composed of a Blend of Chloroaluminum Phthalocyanine and C <sub>70</sub> . Applied Physics Express, 2010, 3, 121602.	2.4	11
395	Evidence for High-Efficiency Exciton Dissociation at Polymer/Single-Walled Carbon Nanotube Interfaces in Planar Nano-heterojunction Photovoltaics. ACS Nano, 2010, 4, 6251-6259.	14.6	82
396	Chemically-treated single-walled carbon nanotubes as digitated penetrating electrodes in organic solar cells. Journal of Materials Chemistry, 2010, 20, 7034.	6.7	26
397	Polymer Solar Cells: Recent Approaches and Achievements. Journal of Physical Chemistry C, 2010, 114, 695-706.	3.1	234
398	Polymer-fullerene bulk heterojunction solar cells. Reports on Progress in Physics, 2010, 73, 096401.	20.1	754
399	Approaches Toward Efficient and Stable Electron Extraction Contact in Organic Photovoltaic Cells: Inspiration from Organic Light-Emitting Diodes. Electronic Materials Letters, 2010, 6, 41-50.	2.2	42
400	Prospects of Colloidal Nanocrystals for Electronic and Optoelectronic Applications. Chemical Reviews, 2010, 110, 389-458.	47.7	3,708
401	Size-Dependent Electron Transfer from Colloidal PbS Nanocrystals to Fullerene. Journal of Physical Chemistry Letters, 2010, 1, 1149-1154.	4.6	54
402	Influence of the sensitizer reduction potential on the sensitivity of photorefractive polymer composites. Journal of Materials Chemistry, 2010, 20, 6170.	6.7	17

#	ARTICLE	IF	CITATIONS
403	Ultrafast IR Spectroscopic Study of Free Carrier Formation in OPV Polymer Blends. ACS Symposium Series, 2010, , 53-69.	0.5	0
404	Interface investigation and engineering “ achieving high performance polymer photovoltaic devices. Journal of Materials Chemistry, 2010, 20, 2575.	6.7	542
405	3D quater- and quinquethiophenesilanes as promising electron-donor materials for BHJ photovoltaic cells and photodetectors. Energy and Environmental Science, 2010, 3, 1941.	30.8	26
406	The synthesis of symmetric and asymmetric perylene derivatives and their optical properties. Dyes and Pigments, 2010, 85, 37-42.	3.7	29
407	Simultaneous determination of carrier lifetime and electron density-of-states in P3HT:PCBM organic solar cells under illumination by impedance spectroscopy. Solar Energy Materials and Solar Cells, 2010, 94, 366-375.	6.2	326
408	Solution processable D-A-D molecules based on triphenylamine for efficient organic solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 457-464.	6.2	76
409	Improved photovoltaic properties of pentacene/N,N'-Dioctyl-3,4,9,10-perylenedicarboximide-based organic heterojunctions with thermal annealing. Solar Energy Materials and Solar Cells, 2010, 94, 836-841.	6.2	27
410	Improved open-circuit voltage and efficiency in organic solar cells using a phosphine oxide based interlayer material. Solar Energy Materials and Solar Cells, 2010, 94, 1389-1392.	6.2	20
411	Organic photovoltaic materials and thin-film solar cells. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2010, 5, 45-60.	0.4	5
412	Origin of Different Dependences of Open-Circuit Voltage on the Electrodes in Layered and Bulk Heterojunction Organic Photovoltaic Cells. IEEE Transactions on Electron Devices, 2010, 57, 397-405.	3.0	19
413	Open-Circuit Voltage Improvement in Hybrid ZnO/Polymer Photovoltaic Devices With Oxide Engineering. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1587-1594.	2.9	25
414	Optimization of Active Layer and Anode Electrode for High-Performance Inverted Bulk-Heterojunction Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1665-1675.	2.9	28
415	Surface Treatment of NiO Hole Transport Layers for Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1649-1655.	2.9	34
416	Water-Soluble Polyfluorenes as an Interfacial Layer Leading to Cathode-Independent High Performance of Organic Solar Cells. Advanced Functional Materials, 2010, 20, 1977-1983.	14.9	195
417	Optimization of Si NC/P3HT Hybrid Solar Cells. Advanced Functional Materials, 2010, 20, 2157-2164.	14.9	125
418	Stable Inverted Polymer/Fullerene Solar Cells Using a Cationic Polythiophene Modified PEDOT:PSS Cathodic Interface. Advanced Functional Materials, 2010, 20, 2404-2415.	14.9	82
419	The Origin of the High Voltage in DPM12/P3HT Organic Solar Cells. Advanced Functional Materials, 2010, 20, 2695-2700.	14.9	67
420	Nanostructure and Optoelectronic Characterization of Small Molecule Bulk Heterojunction Solar Cells by Photoconductive Atomic Force Microscopy. Advanced Functional Materials, 2010, 20, 3314-3321.	14.9	101



#	ARTICLE	IF	CITATIONS
421	High-yield Synthesis and Electrochemical and Photovoltaic Properties of Indene-70-Bisadduct. <i>Advanced Functional Materials</i> , 2010, 20, 3383-3389.	14.9	294
422	Nanostructure and Optoelectronic Characterization of Small Molecule Bulk Heterojunction Solar Cells by Photoconductive Atomic Force Microscopy. <i>Advanced Functional Materials</i> , 2010, 20, n/a-n/a.	14.9	5
423	Fullerene Sensitized Silicon for Near-to Mid-Infrared Light Detection. <i>Advanced Materials</i> , 2010, 22, 647-650.	21.0	23
424	n-Type Organic Semiconductors in Organic Electronics. <i>Advanced Materials</i> , 2010, 22, 3876-3892.	21.0	1,077
425	Polymer-Fullerene Bulk-Heterojunction Solar Cells. <i>Advanced Materials</i> , 2010, 22, 3839-3856.	21.0	1,825
426	Role of the Charge Transfer State in Organic Donor-Acceptor Solar Cells. <i>Advanced Materials</i> , 2010, 22, 4097-4111.	21.0	631
427	6.5% Efficiency of Polymer Solar Cells Based on poly(3-hexylthiophene) and Indene-60-Bisadduct by Device Optimization. <i>Advanced Materials</i> , 2010, 22, 4355-4358.	21.0	876
429	The Use of Tethered Addends to Decrease the Number of Isomers of Bisadduct Analogues of PCBM. <i>Chemistry - A European Journal</i> , 2010, 16, 11250-11253.	3.3	22
430	Organoboron Polymers for Photovoltaic Bulk Heterojunctions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1281-1286.	3.9	58
431	On the Importance of Morphology Control in Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1835-1845.	3.9	77
432	Roles of Interlayers in Efficient Organic Photovoltaic Devices. <i>Macromolecular Rapid Communications</i> , 2010, 31, 2095-2108.	3.9	92
433	Surface hybridization effect of C60 molecules on TiO2 and enhancement of the photocatalytic activity. <i>Journal of Molecular Catalysis A</i> , 2010, 331, 7-14.	4.8	61
434	The magneto conductance responses in polymer photovoltaic devices. <i>Organic Electronics</i> , 2010, 11, 677-685.	2.6	8
435	Direct determination of the electronic structure of the poly(3-hexylthiophene):phenyl-[6,6]-C61 butyric acid methyl ester blend. <i>Organic Electronics</i> , 2010, 11, 1779-1785.	2.6	211
436	Poly(thienylenevinylene) prepared by ring-opening metathesis polymerization: Performance as a donor in bulk heterojunction organic photovoltaic devices. <i>Polymer</i> , 2010, 51, 1541-1547.	3.8	28
437	Active layer transfer by stamping technique for polymer solar cells: Synergistic effect of TiOx interlayer. <i>Organic Electronics</i> , 2010, 11, 599-603.	2.6	22
438	Synthesis and photovoltaic properties of fluorene-based copolymers with narrow band-gap units on the side chain. <i>European Polymer Journal</i> , 2010, 46, 2365-2371.	5.4	10
439	Synthesis and properties of novel methanofullerenes having ethylthienyl and/or n-pentyl group for photovoltaic cells. <i>Tetrahedron</i> , 2010, 66, 7316-7321.	1.9	13

#	ARTICLE	IF	CITATIONS
440	Polymer solar cells: Recent development and possible routes for improvement in the performance. Solar Energy Materials and Solar Cells, 2010, 94, 114-127.	6.2	440
441	The characteristics of the small molecule organic solar cells with PEDOT:PSS/LiF double anode buffer layer system. Solar Energy Materials and Solar Cells, 2010, 94, 623-628.	6.2	28
442	Simulation of the influence of the absorption window for stacked and monolithic organic tandem solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1125-1131.	6.2	4
443	Solution-processable functionalized graphene in donor/acceptor-type organic photovoltaic cells. Solar Energy Materials and Solar Cells, 2010, 94, 1196-1200.	6.2	73
444	Papery solar cells based on dielectric/metal hybrid transparent cathode. Solar Energy Materials and Solar Cells, 2010, 94, 1270-1274.	6.2	51
445	Improving photovoltaic properties by incorporating both SPFGGraphene and functionalized multiwalled carbon nanotubes. Solar Energy Materials and Solar Cells, 2010, 94, 2148-2153.	6.2	42
446	Phase controlled all-polymer bulk-heterojunction photovoltaic cells with high open-circuit voltage. Solar Energy Materials and Solar Cells, 2010, 94, 2244-2250.	6.2	15
447	Poly(3-hexylthiophene): Functionalized single-walled carbon nanotubes: (6,6)-phenyl-C61-butyric acid methyl ester composites for photovoltaic cell at ambient condition. Solar Energy Materials and Solar Cells, 2010, 94, 2386-2394.	6.2	37
448	Organic/inorganic hybrid solar cells based on SnS/SnO nanocrystals and MDMO-PPV. Acta Materialia, 2010, 58, 4950-4955.	7.9	23
449	Effect of solvents on the performance and morphology of polymer photovoltaic devices. Current Applied Physics, 2010, 10, 985-989.	2.4	42
450	Electroluminescence and photovoltaic properties of light-emitting devices and solar cells comprising 2-pyran-4-ylidene-malononitrile conjugated polymers. Dyes and Pigments, 2010, 84, 190-202.	3.7	20
451	Synthesis and properties of phenothiazylene vinylene-based polymers: New organic semiconductors for field-effect transistors and solar cells. Journal of Polymer Science Part A, 2010, 48, 635-646.	2.3	19
452	Synthesis and characterization of cyclopentadithiophene-based low bandgap copolymers containing electron-deficient benzoselenadiazole derivatives for photovoltaic devices. Journal of Polymer Science Part A, 2010, 48, 1423-1432.	2.3	38
453	Synthesis and characterization of a thiadiazole/benzoimidazole-based copolymer for solar cell applications. Journal of Polymer Science Part A, 2010, 48, 4456-4464.	2.3	22
454	Enhanced performance of a CuPc: PCBM based solar cell using bathocuproine BCP or nanostructured TiO <sub>2</sub> as hole-blocking layer. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 479-483.	1.8	20
455	Fullerene sensitized silicon for near-to mid-infrared light detection. Physica Status Solidi (B): Basic Research, 2010, 247, 3043-3046.	1.5	5
456	Fabrication of a 60 nm Diameter Perfectly Round Metal Dot Array over a Large Area on a Plastic Substrate Using Nanoimprint Lithography and Self-Perfection by Liquefaction. Small, 2010, 6, 1242-1247.	10.0	15
457	Fullerene sensitized silicon for near to mid infrared light detection. Materials Research Society Symposia Proceedings, 2010, 1247, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
458	Correlation between charge transfer exciton recombination and photocurrent in polymer/fullerene solar cells. Applied Physics Letters, 2010, 97, .	3.3	48
459	Triphenylamine-based star-shaped absorbers with tunable energy levels for organic photovoltaics. , 2010, , .		0
460	Limits of open circuit voltage in organic photovoltaic devices. Applied Physics Letters, 2010, 96, .	3.3	72
461	Modeling of bulk and bilayer organic heterojunction solar cells. Applied Physics Letters, 2010, 96, .	3.3	37
462	Nanostructure determines the intensity-dependence of open-circuit voltage in plastic solar cells. Journal of Applied Physics, 2010, 108, 084320.	2.5	19
463	Increased open-circuit voltage in bulk-heterojunction solar cells using a C60 derivative. Applied Physics Letters, 2010, 97, 193309.	3.3	18
464	Solution-processed bulk heterojunction organic solar cells based on an oligothiophene derivative. Applied Physics Letters, 2010, 97, .	3.3	86
465	The electronic structure of C60/ZnPc interface for organic photovoltaic device with blended layer architecture. Applied Physics Letters, 2010, 96, .	3.3	50
466	Electronic Structure and Dynamics at Organic Donor/Acceptor Interfaces. MRS Bulletin, 2010, 35, 443-448.	3.5	40
467	Selective absorption enhancement in organic solar cells using light incoupling layers. Journal of Applied Physics, 2010, 107, 053117.	2.5	33
468	Acetylene-Based Materials in Organic Photovoltaics. International Journal of Molecular Sciences, 2010, 11, 1471-1508.	4.1	102
469	Design and Synthesis of Trithiophene-Bound Excited-State Intramolecular Proton Transfer Dye: Enhancement on the Performance of Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2010, 2, 1621-1629.	8.0	24
470	Donor-acceptor polymers based on multi-fused heptacyclic structures: synthesis, characterization and photovoltaic applications. Chemical Communications, 2010, 46, 3259.	4.1	116
471	Impact of the Incorporation of Au Nanoparticles into Polymer/Fullerene Solar Cells. Journal of Physical Chemistry A, 2010, 114, 3981-3989.	2.5	130
473	Interface materials for organic solar cells. Journal of Materials Chemistry, 2010, 20, 2499.	6.7	683
474	Electronic Structure of C <sub>60</sub> /Phthalocyanine/ITO Interfaces Studied using Soft X-ray Spectroscopies. Journal of Physical Chemistry C, 2010, 114, 1928-1933.	3.1	98
475	Improving Polymer Solar Cell Through Efficient Solar Energy Harvesting. Green Energy and Technology, 2010, , 199-236.	0.6	0
476	A New ex-TTF-Based Organogelator: Formation of Organogels and Tuning with Fullerene. Langmuir, 2010, 26, 11720-11725.	3.5	51

#	ARTICLE	IF	CITATIONS
477	Designs and Architectures for the Next Generation of Organic Solar Cells. <i>Energies</i> , 2010, 3, 1212-1250.	3.1	64
478	Multi-colored dye sensitization of polymer/fullerene bulk heterojunction solar cells. <i>Chemical Communications</i> , 2010, 46, 6596.	4.1	142
479	Phenyl vs Alkyl Polythiophene: A Solar Cell Comparison Using a Vinazene Derivative as Acceptor. <i>Chemistry of Materials</i> , 2010, 22, 1673-1679.	6.7	125
480	The Role of Poly(3-hexylthiophene) Nanofibers in an All-Polymer Blend with a Polyfluorene Copolymer for Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9459-9468.	3.1	100
481	Effect of an Ultra-thin Molybdenum Trioxide Layer and Illumination Intensity on the Performance of Organic Photovoltaic Devices. <i>Energy &amp; Fuels</i> , 2010, 24, 3739-3742.	5.1	32
482	Bulk Heterojunction Photovoltaics Using Broadly Absorbing Small Molecules Based on 2-Styryl-5-phenylazo-pyrrole. <i>Langmuir</i> , 2010, 26, 17739-17748.	3.5	7
483	Processible Cyclopentadithiophene Copolymers for Photovoltaic Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 478-483.	2.2	4
484	Ionic Space-Charge Effects in Solid State Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 3664-3668.	8.0	22
485	Bulk heterojunction solar cells based on a low band gap soluble bisazopyrrole and the corresponding BF <sub>2</sub> -azopyrrole complex. <i>Journal of Materials Chemistry</i> , 2010, 20, 6464.	6.7	16
486	Efficient Bulk Heterojunction Solar Cells with Poly[2,7-(9,9-dihexylfluorene)-alt-bithiophene] and 6,6-Phenyl C61 Butyric Acid Methyl Ester Blends and Their Application in Tandem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 829-837.	8.0	45
487	Gas Phase Electrodeposition: A Programmable Multimaterial Deposition Method for Combinatorial Nanostructured Device Discovery. <i>Nano Letters</i> , 2010, 10, 4494-4500.	9.1	23
488	Semiconducting polymers: the Third Generation. <i>Chemical Society Reviews</i> , 2010, 39, 2354.	38.1	993
489	Elementary processes and limiting factors in hybrid polymer/nanoparticle solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 1682.	30.8	82
490	Enhanced performance of P3HT/PCBM bulk heterojunction photovoltaic devices by adding spin $\dot{A}^{1/2}$ radicals. <i>Synthetic Metals</i> , 2010, 160, 262-265.	3.9	12
491	Hybrid conjugated polymer/semiconductor photovoltaic cells. <i>Synthetic Metals</i> , 2010, 160, 1-15.	3.9	149
492	Improved open circuit voltage of the photovoltaic device using ferrocene as a donor material. <i>Synthetic Metals</i> , 2010, 160, 779-782.	3.9	4
493	Investigation of novel PCBM analogs containing thienyl groups for organic photovoltaic devices. <i>Synthetic Metals</i> , 2010, 160, 961-966.	3.9	5
494	Investigation of new PPV-type polymeric materials containing fluorene and thiophene units and their application in organic solar cells. <i>Synthetic Metals</i> , 2010, 160, 1654-1661.	3.9	24

#	ARTICLE	IF	CITATIONS
495	Composition and annealing effects in solution-processable functionalized graphene oxide/P3HT based solar cells. <i>Synthetic Metals</i> , 2010, 160, 2494-2500.	3.9	29
496	Different solvents effect on the performance of the solar cells based on poly(3-hexylthiophene):methanofullerenes. <i>Synthetic Metals</i> , 2010, 160, 2505-2509.	3.9	14
497	The effects of CdSe incorporation into bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 4845.	6.7	89
498	Recombination in polymer-fullerene bulk heterojunction solar cells. <i>Physical Review B</i> , 2010, 82, .	3.2	1,698
499	Synthesis, characterization and DFT calculations of new ethynyl-bridged C60 derivatives. <i>Tetrahedron</i> , 2010, 66, 4230-4242.	1.9	26
500	Face-to-face C6F5â€“[60]fullerene interaction for ordering fullerene molecules and application to thin-film organic photovoltaics. <i>Chemical Communications</i> , 2010, 46, 8582.	4.1	47
501	Water/alcohol soluble conjugated polymers as highly efficient electron transporting/injection layer in optoelectronic devices. <i>Chemical Society Reviews</i> , 2010, 39, 2500.	38.1	431
502	Hybrid nanostructured solar cells based on the incorporation of inorganic nanoparticles in polymer-fullerene mixtures. , 2010, , .		3
503	Improvement in carrier mobility and photovoltaic performance through random distribution of segments of linear and branched side chains. <i>Journal of Materials Chemistry</i> , 2010, 20, 9726.	6.7	43
504	Silyl Substituted Methanofullerenes as Electron Acceptors in Organic Photovoltaic Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 266-275.	0.9	3
505	Thienyl-substituted methanofullerene derivatives for organic photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 475-482.	6.7	96
506	Synthesis of Diketopyrrolopyrrole Containing Copolymers: A Study of Their Optical and Photovoltaic Properties. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3095-3103.	2.6	116
507	Recent Progress on Highly Efficient Bulk Heterojunction Polymer Solar Cells. <i>ACS Symposium Series</i> , 2010, , 71-80.	0.5	11
508	Towards optimization of P3HT:bisPCBM composites for highly efficient polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 7710.	6.7	31
509	Polycyclic Aromatics with Flanking Thiophenes: Tuning Energy Level and Band Gap of Conjugated Polymers for Bulk Heterojunction Photovoltaics. <i>Macromolecules</i> , 2010, 43, 797-804.	4.8	39
510	Small band gap polymers based on diketopyrrolopyrrole. <i>Journal of Materials Chemistry</i> , 2010, 20, 2240.	6.7	152
511	Bulk heterojunction solar cells based on preformed polythiophene nanowires via solubility-induced crystallization. <i>Journal of Materials Chemistry</i> , 2010, 20, 7398.	6.7	147
512	Alkyl substituted [6,6]-thienyl-C61-butyric acid methyl esters: easily accessible acceptor materials for bulk-heterojunction polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 3092.	6.7	26

#	ARTICLE	IF	CITATIONS
513	Charge separation in nanoscale photovoltaic materials: recent insights from first-principles electronic structure theory. <i>Journal of Materials Chemistry</i> , 2010, 20, 1053-1061.	6.7	38
514	Synthesis and Photovoltaic Properties of a Copolymer of Benzo[1,2-b:4,5-b <sup>â€²</sup> ]dithiophene and Bithiazole. <i>Macromolecules</i> , 2010, 43, 8714-8717.	4.8	56
515	Highly-stable and efficient polymer solar cells incorporating nanoscale buffer layers induced by spontaneous vertical phase separation. , 2010, , .		0
516	Modification of the Ĩf-framework of [60]fullerene for bulk-heterojunction solar cells. <i>Chemical Communications</i> , 2011, 47, 7335.	4.1	31
517	Aqueous-Solution-Processed Hybrid Solar Cells from Poly(1,4-naphthalenevinylene) and CdTe Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2919-2923.	8.0	32
518	Effect of the alkyl chain length of C70-PCBX acceptors on the device performance of P3HTâ€™:â€™C70-PCBX polymer solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 960-967.	6.7	20
519	Isomerically pure electron-deficient anthradithiophenes and their acceptor performance in polymer solar cells. <i>Chemical Communications</i> , 2011, 47, 7617.	4.1	38
520	Effect of main ligands on organic photovoltaic performance of Ir(iii) complexes. <i>New Journal of Chemistry</i> , 2011, 35, 2557.	2.8	40
521	Triplet Exciton Generation in Bulk-Heterojunction Solar Cells Based on Endohedral Fullerenes. <i>Journal of the American Chemical Society</i> , 2011, 133, 9088-9094.	13.7	91
522	Photovoltaic Applications of Silicon Nanocrystal Based Nanostructures Induced by Nanosecond Laser Fragmentation in Liquid Media. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5084-5093.	3.1	67
523	Relationship between Diode Saturation Current and Open Circuit Voltage in Poly(3-alkylthiophene) Solar Cells as a Function of Device Architecture, Processing Conditions, and Alkyl Side Chain Length. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20806-20816.	3.1	51
524	Design of New Electron Acceptor Materials for Organic Photovoltaics: Synthesis, Electron Transport, Photophysics, and Photovoltaic Properties of Oligothiophene-Functionalized Naphthalene Diimides. <i>Chemistry of Materials</i> , 2011, 23, 4563-4577.	6.7	171
525	Solution-Processed Flexible Polymer Solar Cells with Silver Nanowire Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4075-4084.	8.0	351
526	Annealing Sequence Dependent Open-Circuit Voltage of Inverted Polymer Solar Cells Attributable to Interfacial Chemical Reaction between Top Electrodes and Photoactive Layers. <i>Langmuir</i> , 2011, 27, 11265-11271.	3.5	14
527	Quaterthiopheneâ€™Benzobisazole Copolymers for Photovoltaic Cells: Effect of Heteroatom Placement and Substitution on the Optical and Electronic Properties. <i>Macromolecules</i> , 2011, 44, 9611-9617.	4.8	40
528	Indium tin oxide nanopillar electrodes in polymer/fullerene solar cells. <i>Nanotechnology</i> , 2011, 22, 085706.	2.6	67
529	Heterocyclic Radical Mediated Synthesis and Fluorescence Properties of Conjugated Polyene Ketones. <i>Organic Letters</i> , 2011, 13, 3608-3611.	4.6	12
530	Near-Infrared Azadipyrromethenes as Electron Donor for Efficient Planar Heterojunction Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4469-4474.	8.0	69

#	ARTICLE	IF	CITATIONS
531	Bisadducts of C70as Electron Acceptors for Bulk Heterojunction Solar Cells: A Theoretical Study. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 410-420.	2.1	5
532	Small-Molecule-Based Organic Photovoltaic Devices Covering Visible and Near-Infrared Absorption through Phase Transition of Titanylphthalocyanine Induced by Solvent Exposure. Japanese Journal of Applied Physics, 2011, 50, 121603.	1.5	8
534	Pyrazolinofullerenes: a less known type of highly versatile fullerene derivatives. Chemical Society Reviews, 2011, 40, 5232.	38.1	57
535	Tetrapropyl-tetraphenyl-diindenoperylene derivative as a green absorber for high-voltage stable organic solar cells. Physical Review B, 2011, 83, .	3.2	14
536	Accelerated computational discovery of high-performance materials for organic photovoltaics by means of cheminformatics. Energy and Environmental Science, 2011, 4, 4849.	30.8	169
538	On the Importance of Morphology Control for Printable Solar Cells. Green Energy and Technology, 2011, , 227-249.	0.6	0
539	Relating Trends in First-Principles Electronic Structure and Open-Circuit Voltage in Organic Photovoltaics. Journal of Physical Chemistry Letters, 2011, 2, 2531-2537.	4.6	45
540	Conjugated polymerâ€“inorganic semiconductor hybrid solar cells. Energy and Environmental Science, 2011, 4, 2700.	30.8	278
541	Influence of Fullerene Ordering on the Energy of the Charge-Transfer State and Open-Circuit Voltage in Polymer:Fullerene Solar Cells. Journal of Physical Chemistry C, 2011, 115, 10873-10880.	3.1	95
542	Nanostructured TCOs (ZnO, TiO2, and Beyond). , 2011, , 425-457.		1
543	Ethynyl-bridged fullerene derivatives: effect of the secondary group on electronic properties. New Journal of Chemistry, 2011, 35, 942.	2.8	5
544	Side chain engineering of fused aromatic thienopyrazine based low band-gap polymers for enhanced charge carrier mobility. Journal of Materials Chemistry, 2011, 21, 1537-1543.	6.7	30
545	Preparation of Active Layers in Polymer Solar Cells by Aerosol Jet Printing. ACS Applied Materials & Interfaces, 2011, 3, 4053-4058.	8.0	80
546	Increased open circuit voltage in fluorinated benzothiadiazole-based alternating conjugated polymers. Chemical Communications, 2011, 47, 11026.	4.1	241
547	Current Challenges in Organic Photovoltaic Solar Energy Conversion. Topics in Current Chemistry, 2011, 312, 175-212.	4.0	27
548	A survey of electron-deficient pentacenes as acceptors in polymer bulk heterojunction solar cells. Chemical Science, 2011, 2, 363-368.	7.4	121
549	Role of photoactive layer morphology in high fill factor all-polymer bulk heterojunction solar cells. Journal of Materials Chemistry, 2011, 21, 5891.	6.7	146
550	Small-Molecule, Nonfullerene Acceptors for Polymer Bulk Heterojunction Organic Photovoltaics. Chemistry of Materials, 2011, 23, 583-590.	6.7	384



#	ARTICLE	IF	CITATIONS
551	A New Model for the Morphology of P3HT/PCBM Organic Photovoltaics from Small-Angle Neutron Scattering: Rivers and Streams. <i>ACS Nano</i> , 2011, 5, 4756-4768.	14.6	295
552	Effect of Polarity of Small Molecule Interlayer Materials on the Open Circuit Voltage and Power Conversion Efficiency of Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18789-18794.	3.1	14
553	Mobility and photovoltaic performance studies on polymer blends: effects of side chains volume fraction. <i>Journal of Materials Chemistry</i> , 2011, 21, 2594-2600.	6.7	40
554	A Dâ€“A copolymer of dithienosilole and a new acceptor unit of naphtho[2,3-c]thiophene-4,9-dione for efficient polymer solar cells. <i>Chemical Communications</i> , 2011, 47, 11345.	4.1	68
555	Synthesis, Characterization, Charge Transport, and Photovoltaic Properties of Dithienobenzoquinoxaline- and Dithienobenzopyridopyrazine-Based Conjugated Polymers. <i>Macromolecules</i> , 2011, 44, 4752-4758.	4.8	111
556	Crystalline Low-Band Gap Polymers Comprising Thiophene and 2,1,3-Benzoxadiazole Units for Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2011, 44, 9155-9163.	4.8	69
557	Synthesis and Characterization of Dioctyloxybenzo[1,2- <i>b</i> :4,3- <i>b'</i> â€²]dithiophene-Containing Copolymers for Polymer Solar Cells. <i>Macromolecules</i> , 2011, 44, 7625-7631.	4.8	63
558	Inverted ITO-free organic solar cells based on p and n semiconducting oxides. New designs for integration in tandem cells, top or bottom detecting devices, and photovoltaic windows. <i>Energy and Environmental Science</i> , 2011, 4, 453-458.	30.8	58
559	Facile Synthesis of o-Xylenyl Fullerene Multiadducts for High Open Circuit Voltage and Efficient Polymer Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 5090-5095.	6.7	104
560	Indene Addition of [6,6]-Phenyl-C <sub>61</sub> -butyric Acid Methyl Ester for High-Performance Acceptor in Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4340-4344.	3.1	52
561	A simple parallel tandem organic solar cell based on metallophthalocyanines. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	21
562	Influence of the indium tin oxide/organic interface on open-circuit voltage, recombination, and cell degradation in organic small-molecule solar cells. <i>Physical Review B</i> , 2011, 83, .	3.2	70
563	Diketopyrrolopyrrole-Based Ė-Bridged Donorâ€“Acceptor Polymer for Photovoltaic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 3874-3883.	8.0	43
564	Low band gap conjugated small molecules containing benzobisthiadiazole and thienothiadiazole central units: synthesis and application for bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 4679.	6.7	60
565	Solvent Effect Leading to High Performance of Bulk Heterojunction Polymer Solar Cells by Novel Polysilafluorene Derivatives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2314-2319.	3.1	18
566	Silaindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors. <i>Chemistry of Materials</i> , 2011, 23, 768-770.	6.7	126
567	High Photoelectric Conversion Efficiency of Metal Phthalocyanine/Fullerene Heterojunction Photovoltaic Device. <i>International Journal of Molecular Sciences</i> , 2011, 12, 476-505.	4.1	82
568	Handbook of Transparent Conductors. , 2011, , .		271



#	ARTICLE	IF	CITATIONS
569	A simple method for controlling the type of cuprous oxide semiconductors using different surfactants. <i>Journal of Materials Chemistry</i> , 2011, 21, 5408.	6.7	19
571	Design, Synthesis, Characterization and Use of Random Conjugated Copolymers for Optoelectronic Applications. <i>International Federation for Information Processing</i> , 2011, , 596-603.	0.4	0
572	The molecular nature of photovoltage losses in organic solar cells. <i>Chemical Communications</i> , 2011, 47, 3702.	4.1	122
573	Synthesis, characterization and photovoltaic properties of poly(thiophenevinylene-alt-benzobisoxazole)s. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1338-1344.	2.8	32
574	Photovoltaic Conversion Enhancement of CdSe Quantum Dot-Sensitized TiO <sub>2</sub> Decorated with Au Nanoparticles and P3OT. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23209-23220.	3.1	53
575	Solution-Processable Star-Shaped Molecules with Triphenylamine Core and Dicyanovinyl Endgroups for Organic Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 817-822.	6.7	158
577	Theoretical investigation on the photophysical properties of low-band-gap copolymers for photovoltaic devices. <i>Computational and Theoretical Chemistry</i> , 2011, 978, 7-15.	2.5	28
578	Benzobisthiazole-Based Donor-Acceptor Copolymer Semiconductors for Photovoltaic Cells and Highly Stable Field-Effect Transistors. <i>Macromolecules</i> , 2011, 44, 7207-7219.	4.8	101
579	Diketo-pyrrolo-pyrrole-Based Medium Band Gap Copolymers for Efficient Plastic Solar Cells: Morphology, Transport, and Composition-Dependent Photovoltaic Behavior. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11282-11292.	3.1	32
580	Fluorenone core donor-acceptor-donor-conjugated molecules end-capped with dendritic oligo(thiophene)s: synthesis, liquid crystalline behaviour, and photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 5238.	6.7	67
581	Studies of photovoltaic properties of nanocrystalline thin films of CdS-CdTe. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10003-10006.	5.5	16
582	Dicyanovinylene-Substituted Selenophene-Thiophene Co-oligomers for Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 4435-4444.	6.7	76
583	Synthesis and photovoltaic property of a novel low band gap conjugated donor-acceptor copolymer consisting of 2,7-carbazole and (bithiophenevinyl)-(2-pyran-4-ylidenemalononitrile) (TVM). <i>Synthetic Metals</i> , 2011, 161, 731-736.	3.9	4
584	Polymer infrared photo-detector with high sensitivity up to 1100nm. <i>Synthetic Metals</i> , 2011, 161, 1618-1622.	3.9	23
585	Band Alignment at Organic-Inorganic Heterojunctions between P3HT and n-Type 6H-SiC. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4286-4291.	8.0	16
586	Fullerene derivative acceptors for high performance polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1970-1983.	2.8	858
587	The Role of Molecular Structure and Conformation in Polymer Electronics. <i>Semiconductors and Semimetals</i> , 2011, , 231-260.	0.7	7
588	Photocurrent Generation in Organic Solar Cells. <i>Semiconductors and Semimetals</i> , 2011, 85, 297-330.	0.7	7

#	ARTICLE	IF	CITATIONS
589	Synthesis, characterization, and photovoltaic properties of a low-bandgap copolymer based on 2,1,3-benzooxadiazole. Chemical Communications, 2011, 47, 8877.	4.1	90
590	Di(4-methylphenyl)methano-C <sub>60</sub> Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. Chemistry of Materials, 2011, 23, 4056-4062.	6.7	90
591	Influence of charge accumulation of photogenerated carriers in the vicinity of donor/acceptor interface on the open-circuit voltage of zinc-porphyrin/C <sub>60</sub> heterojunction organic photovoltaic cells. Journal Physics D: Applied Physics, 2011, 44, 265102.	2.8	18
592	Donor-acceptor liquid crystalline conjugated cooligomers for the preparation of films with the ideal morphology for bulk heterojunction solar cells. Polymer, 2011, 52, 4253-4260.	3.8	19
593	Conjugated Polymers for Organic Solar Cells. , 0, , .		5
594	Tuning energy levels in magnesium modified Alq3. Journal of Applied Physics, 2011, 109, 083541.	2.5	4
595	Efficiency enhancement in organic solar cells with ferroelectric polymers. Nature Materials, 2011, 10, 296-302.	27.5	482
596	Influence of doped PEDOT:PSS on the performance of polymer solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2763-2767.	6.2	85
597	Rubrene as an additive in M-phthalocyanine/fullerene organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3137-3141.	6.2	13
598	Optimum design of ordered bulk heterojunction organic photovoltaics. Solar Energy Materials and Solar Cells, 2011, 95, 3021-3024.	6.2	16
599	Effect of blend composition in BisEH-PFDTBT:PC70BM solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3428-3432.	6.2	4
600	Investigations of efficiency improvements in poly(3-hexylthiophene) based organic solar cells using calcium cathodes. Solar Energy Materials and Solar Cells, 2011, 95, 3424-3427.	6.2	23
601	Synthesis and characterization of a new ethynyl-bridged C60 derivative bearing a diketopyrrolopyrrole moiety. Tetrahedron Letters, 2011, 52, 5008-5011.	1.4	18
602	Modifying organic/metal interface via solvent treatment to improve electron injection in organic light emitting diodes. Organic Electronics, 2011, 12, 1858-1863.	2.6	72
603	High-performance inverted polymer solar cells with lead monoxide-modified indium tin oxides as the cathode. Organic Electronics, 2011, 12, 1864-1871.	2.6	28
604	Structural templating of chloro-aluminum phthalocyanine layers for planar and bulk heterojunction organic solar cells. Organic Electronics, 2011, 12, 2131-2139.	2.6	36
605	Synthesis and characterization of all-conjugated diblock copolymers consisting of thiophenes with a hydrophobic alkyl and a hydrophilic alkoxy side chain. Polymer, 2011, 52, 3704-3709.	3.8	22
606	D-A copolymers based on dithienosilole and phthalimide for photovoltaic materials. Polymer, 2011, 52, 5464-5470.	3.8	27

#	ARTICLE	IF	CITATIONS
607	Conjugated copolymers based on poly(fluorenylene vinylene) derivatives containing push–pull units: Synthesis and characterization. <i>Materials Chemistry and Physics</i> , 2011, 130, 223-230.	4.0	5
608	Acceptor dependent polaron recombination dynamics in poly 3-hexyl thiophene: Fullerene composite films. <i>Chemical Physics Letters</i> , 2011, 513, 77-83.	2.6	7
609	Effect of sorbitol doping in PEDOT:PSS on the electrical performance of organic photovoltaic devices. <i>Current Applied Physics</i> , 2011, 11, 1299-1301.	2.4	25
610	Are we there yet? Design of better conjugated polymers for polymer solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 18934.	6.7	156
611	Relation of open circuit voltage to charge carrier density in organic bulk heterojunction solar cells. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	86
612	Molecular Design and Ordering Effects in $\pi$ -Functional Materials for Transistor and Solar Cell Applications. <i>Journal of the American Chemical Society</i> , 2011, 133, 20009-20029.	13.7	1,338
613	Crystalline conjugated polymer containing fused 2,5-di(thiophen-2-yl)thieno[2,3-b]thiophene and thieno[3,4-c]pyrrole-4,6-dione units for bulk heterojunction solar cells. <i>Chemical Communications</i> , 2011, 47, 5064.	4.1	71
614	Platinum–Acetylide Polymers with Higher Dimensionality for Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1766-1777.	3.3	46
615	Relationship between energetic disorder and open-circuit voltage in bulk heterojunction organic solar cells. <i>Physical Review B</i> , 2011, 84, .	3.2	338
616	Synthesis and Characterization of Thieno[3,4- <i>b</i> ]thiophene-Based Copolymers Bearing 4-Substituted Phenyl Ester Pendants: Facile Fine-Tuning of HOMO Energy Levels. <i>Macromolecules</i> , 2011, 44, 6659-6662.	4.8	22
617	The role of buffer layers in polymer solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 285-310.	30.8	455
618	Optical and electronic properties of fluorene/thiophene/benzothiadiazole pseudorandom copolymers for photovoltaic applications. <i>Journal of Materials Science</i> , 2011, 46, 3960-3968.	3.7	16
619	Photovoltaic properties of bulk heterojunction solar cells incorporating 2-hydroxyethyl- and fullerene-functionalized conjugated polymers. <i>Colloid and Polymer Science</i> , 2011, 289, 1215-1231.	2.1	9
620	Conjugated polymer-functionalized carbon nanotubes enhance the photovoltaic properties of polymer solar cells. <i>Colloid and Polymer Science</i> , 2011, 289, 1633-1641.	2.1	16
621	Computational characterization of organic photovoltaic devices. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 291-301.	1.4	37
622	Biindene-C60 adducts for the application as acceptor in polymer solar cells with higher open-circuit-voltage. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 899-903.	6.2	30
623	Progress in stability of organic solar cells exposed to air. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1964-1969.	6.2	29
624	Roughness characterization of silver oxide anodes for use in efficient top-illuminated organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2606-2609.	6.2	16

#	ARTICLE	IF	CITATIONS
625	Solution processable quinacridone based materials as acceptor for organic heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2670-2676.	6.2	32
626	Photovoltaic properties of the polymer solar cells comprising crosslinked maleimide polymers and fullerene-derivative PCBM. <i>Polymers for Advanced Technologies</i> , 2011, 22, 2110-2122.	3.2	7
627	Polythiophenes bearing electron-withdrawing groups in the side chain and their application to bulk heterojunction solar cells. <i>Journal of Polymer Science Part A</i> , 2011, 49, 234-241.	2.3	7
628	Synthesis and characterization of fluorene and cyclopentadithiophene-based copolymers exhibiting broad absorption for photovoltaic devices. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1248-1255.	2.3	9
629	Solid-state NMR as a tool to describe and quantify the morphology of photoactive layers used in plastic solar cells. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1699-1707.	2.3	11
630	Alternating copolymers incorporating cyclopenta[2,1- <i>b</i> :3,4- <i>b'</i> ]dithiophene unit and organic dyes for photovoltaic applications. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1791-1801.	2.3	33
631	Synthesis and photovoltaic properties of copolymers based on bithiophene and bithiazole. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2746-2754.	2.3	20
632	Synthesis of $\pi$ -conjugated copolymers composed of benzo[2,1,3]thiadiazole and thiophene units bearing various alkyl groups and their application to photovoltaic cells. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3543-3549.	2.3	5
633	Effect of multiple adduct fullerenes on charge generation and transport in photovoltaic blends with poly(3-hexylthiophene-2,5-diyl). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 45-51.	2.1	59
634	New Alternating Copolymers of 3,6-Carbazoles and Dithienylbenzothiadiazoles: Synthesis, Characterization, and Application in Photovoltaics. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2127-2141.	2.2	21
635	Reduction of Collection Efficiency of Charge Carriers with Increasing Cell Size in Polymer Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 343-347.	14.9	69
636	A Simple and Effective Modification of PCBM for Use as an Electron Acceptor in Efficient Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 746-755.	14.9	147
637	Influence of Hole-Transport Layers and Donor Materials on Open-Circuit Voltage and Shape of $V_{oc}$ Curves of Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 2140-2149.	14.9	263
638	Non-Geminate Recombination as the Primary Determinant of Open-Circuit Voltage in Polythiophene:Fullerene Blend Solar Cells: an Analysis of the Influence of Device Processing Conditions. <i>Advanced Functional Materials</i> , 2011, 21, 2744-2753.	14.9	143
639	Manipulation of the Open-Circuit Voltage of Organic Solar Cells by Desymmetrization of the Structure of Acceptor-Donor-Acceptor Molecules. <i>Advanced Functional Materials</i> , 2011, 21, 4379-4387.	14.9	98
640	An Electrochemical Avenue to Green-Luminescent Graphene Quantum Dots as Potential Electron-Acceptors for Photovoltaics. <i>Advanced Materials</i> , 2011, 23, 776-780.	21.0	1,466
641	Assessing Possibilities and Limits for Solar Cells. <i>Advanced Materials</i> , 2011, 23, 2870-2876.	21.0	122
642	Molecular-Shape-Controlled Photovoltaic Performance Probed via Soluble $\pi$ -Conjugated Arylacetylenic Semiconductors. <i>Advanced Materials</i> , 2011, 23, 3827-3831.	21.0	46

#	ARTICLE	IF	CITATIONS
643	Novel Benzo[1,2- <i>b</i> :4,5- <i>b'</i> : <i>a</i> <sup>2</sup> ]dithiophene- <i>a</i> -Benzothiadiazole Derivatives with Variable Side Chains for High-Performance Solar Cells. <i>Advanced Materials</i> , 2011, 23, 4554-4558.	21.0	217
644	Bulk Heterojunction Photovoltaic Cells with Low Donor Concentration. <i>Advanced Materials</i> , 2011, 23, 4960-4964.	21.0	178
645	Simultaneous Enhancement of Open-Circuit Voltage, Short-Circuit Current Density, and Fill Factor in Polymer Solar Cells. <i>Advanced Materials</i> , 2011, 23, 4636-4643.	21.0	2,000
646	Practical Roadmap and Limits to Nanostructured Photovoltaics. <i>Advanced Materials</i> , 2011, 23, 5712-5727.	21.0	160
647	In Situ X-Ray Study of Drying-Temperature Influence on the Structural Evolution of Bulk-Heterojunction Polymer-Fullerene Solar Cells Processed by Doctor-Blading. <i>Advanced Energy Materials</i> , 2011, 1, 363-367.	19.5	89
648	Nitrile-Substituted QA Derivatives: New Acceptor Materials for Solution-Processable Organic Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 431-439.	19.5	135
649	High Performance Organic Photovoltaic Cells Using Polymer-Hybridized ZnO Nanocrystals as a Cathode Interlayer. <i>Advanced Energy Materials</i> , 2011, 1, 690-698.	19.5	123
650	Non-Fullerene Acceptor-Based Bulk Heterojunction Polymer Solar Cells: Engineering the Nanomorphology via Processing Additives. <i>Advanced Energy Materials</i> , 2011, 1, 946-953.	19.5	161
651	The Roles of Poly(Ethylene Oxide) Electrode Buffers in Efficient Polymer Photovoltaics. <i>Advanced Energy Materials</i> , 2011, 1, 1192-1198.	19.5	28
652	Assessment of TD-DFT- and TD-CM- based approaches for the prediction of exciton coupling parameters, potential energy curves, and electronic characters of electronically excited aggregates. <i>Journal of Computational Chemistry</i> , 2011, 32, 1971-1981.	3.3	70
654	All-Polymer Solar Cells from Perylene Diimide Based Copolymers: Material Design and Phase Separation Control. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2799-2803.	13.8	398
655	Copolymers Comprising 2,7-Carbazole and Bis-benzothiadiazole Units for Bulk-Heterojunction Solar Cells. <i>Chemistry - A European Journal</i> , 2011, 17, 14681-14688.	3.3	27
656	Spatially resolved drying kinetics of multi-component solution cast films for organic electronics. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 509-515.	3.6	26
657	Composition-dependent phase separation effects of organic solar cells using P3HT:PCBM as active layer and chromium oxide as hole transporting layer. <i>Applied Surface Science</i> , 2011, 257, 3952-3958.	6.1	27
658	Ternary thiophene-X-thiophene semiconductor building blocks (X=fluorene, carbazole,) Tj ETQqO O O rgBT /Overlock 10 Tf 50 187 core. <i>Electrochimica Acta</i> , 2011, 56, 6638-6653.	5.2	28
659	pH-neutral PEDOT:PSS as hole injection layer in polymer light emitting diodes. <i>Organic Electronics</i> , 2011, 12, 504-508.	2.6	37
660	Effect of organic salt doping on the performance of single layer bulk heterojunction organic solar cell. <i>Solar Energy</i> , 2011, 85, 95-99.	6.1	15
661	Evaluation of bis-dicyanovinyl short-chain conjugated systems as donor materials for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 462-468.	6.2	25

#	ARTICLE	IF	CITATIONS
662	Anode engineering for photocurrent enhancement in a polymer solar cell and applied on plastic substrate. Solar Energy Materials and Solar Cells, 2011, 95, 611-617.	6.2	2
663	Efficient hole collection by introducing ultra-thin UVâ€‘ozone treated Au in polymer solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 904-908.	6.2	35
664	Photoelectron spectroscopy and atomic force microscopy study of 1,2-dicyano-methanofullerene C60(CN)2 thin film for photovoltaic applications. Solar Energy Materials and Solar Cells, 2011, 95, 1111-1118.	6.2	7
665	ITO-free inverted polymer solar cells using a GZO cathode modified by ZnO. Solar Energy Materials and Solar Cells, 2011, 95, 1610-1614.	6.2	52
666	Integration of an M-phthalocyanine layer into solution-processed organic photovoltaic cells for improved spectral coverage. Solar Energy Materials and Solar Cells, 2011, 95, 1970-1973.	6.2	24
667	Investigation of recombination loss in organic solar cells by simulating intensity-dependent currentâ€‘voltage measurements. Solar Energy Materials and Solar Cells, 2011, 95, 2557-2563.	6.2	42
668	Triphenylamine-substituted methanofullerene derivatives for enhanced open-circuit voltages and efficiencies in polymer solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2371-2379.	6.2	20
669	Two-dimensional photonic crystal arrays for polymer:fullerene solar cells. Nanotechnology, 2011, 22, 465403.	2.6	8
670	The effect of ZnO surface conditions on the electronic structure of the ZnO/CuPc interface. Applied Physics Letters, 2011, 98, 082111.	3.3	20
671	Highly efficient organic photovoltaic devices using F-doped SnO2 anodes. Applied Physics Letters, 2011, 98, .	3.3	42
672	The investigation and optimization of LiF cathode buffer layer based on ZnPc/C<inf>60</inf> solar cells. , 2011, , .		0
673	Performance improvement of annealing-free P3HTâ€‘:â€‘PCBM-based polymer solar cells via 3-methylthiophene additive. Journal Physics D: Applied Physics, 2011, 44, 365101.	2.8	15
674	Performance Characteristics of Polymer Solar Cells with an Additive-Incorporated Active Layer. Molecular Crystals and Liquid Crystals, 2011, 538, 232-239.	0.9	0
675	Open circuit voltage and IV curve shape of ZnPc:C<sub>60</sub> solar cells with varied mixing ratio and hole transport layer. Journal of Photonics for Energy, 2011, 1, 011114.	1.3	31
676	Synthesis and Dye-sensitized Solar Cell Application of Polyolefinic Aromatic Molecules with Pyrene as Surface Group. Australian Journal of Chemistry, 2011, 64, 951.	0.9	2
677	High Open-Circuit Voltage of Organic Bulk Heterojunction Solar Cells Base on Poly(3-hexylthiophene): Fullerene Derivatives. Molecular Crystals and Liquid Crystals, 2011, 538, 216-222.	0.9	3
678	Formation and Characterisation of Solution Processed â€‘Pseudo-Bilayerâ€‘Organic Solar Cells. Green, 2011, 1, .	0.4	2
679	Guidelines for the Bandgap Combinations and Absorption Windows for Organic Tandem and Triple-Junction Solar Cells. Materials, 2012, 5, 1933-1953.	2.9	29



#	ARTICLE	IF	CITATIONS
680	MoO <sub>3</sub> Thickness, Thermal Annealing and Solvent Annealing Effects on Inverted and Direct Polymer Photovoltaic Solar Cells. <i>Materials</i> , 2012, 5, 2521-2536.	2.9	58
681	Optimization of transparent electrode processing conditions for bulk heterojunction solar cells. <i>Journal of Photonics for Energy</i> , 2012, 2, 021005.	1.3	1
682	High-Performance Semitransparent Bulk-Heterojunction Organic Photovoltaics with Ag Interfacial Layer. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 024104.	1.5	0
683	Organic Photovoltaic Cells Employing an Ultrathin Electron Donor of Arylamino-Substituted Fumaronitrile Material. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09MA04.	1.5	0
684	Optical-electrical simulation of organic solar cells: Influence of light trapping by photonic crystal and ZnO spacer on electrical characteristics. <i>Journal of Applied Physics</i> , 2012, 111, 094506.	2.5	15
685	Effect of a calcium cathode on water-based nanoparticulate solar cells. <i>Applied Physics Letters</i> , 2012, 101, 053901.	3.3	10
686	Rhenium oxide as an efficient p-dopant to overcome S-shaped current density-voltage curves in organic photovoltaics with a deep highest occupied molecular orbital level donor layer. <i>Applied Physics Letters</i> , 2012, 101, 153303.	3.3	16
688	Multiscale modeling and simulation for optimizing polymer bulk heterojunction solar cells. , 2012, , .		0
689	Template-free Fabrication of Nano-sized Cu <sub>2</sub> O Hollow Spheres, Sheets and Octahedrons in Cu-citrate System and their Morphology-dependent Semiconductor Type. <i>Current Nanoscience</i> , 2012, 8, 417-423.	1.2	4
690	Improved Cathode Interface Contact in Poly(3-hexylthiophene) and 1-(3-Methoxycarbonyl)-propyl-1-phenyl-(6,6)C <sub>61</sub> Based Organic Bulk Heterojunction Solar Cells by Introducing Compressive Stress. <i>Applied Physics Express</i> , 2012, 5, 071601.	2.4	1
691	Multiple Functionalities of Polyfluorene Grafted with Metal Ion-Intercalated Crown Ether as an Electron Transport Layer for Bulk-Heterojunction Polymer Solar Cells: Optical Interference, Hole Blocking, Interfacial Dipole, and Electron Conduction. <i>Journal of the American Chemical Society</i> , 2012, 134, 14271-14274.	13.7	157
692	Effects of Alkoxy Chain Length in Alkoxy-Substituted Dihydronaphthyl-Based [60]Fullerene Bisadduct Acceptors on Their Photovoltaic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5966-5973.	8.0	27
693	Polyfluorene-based semiconductors combined with various periodic table elements for organic electronics. <i>Progress in Polymer Science</i> , 2012, 37, 1192-1264.	24.7	280
694	Meaning of reaction orders in polymer:fullerene solar cells. <i>Physical Review B</i> , 2012, 86, .	3.2	199
695	A computational proof toward correlation between the theoretical chemical concept of electrophilicity index for the acceptors of C <sub>60</sub> and C <sub>70</sub> fullerene derivatives with the open-circuit voltage of polymer-fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 125-131.	6.2	26
696	Origin of Hole Selectivity and the Role of Defects in Low-Temperature Solution-Processed Molybdenum Oxide Interfacial Layer for Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16346-16351.	3.1	76
697	Self-Assembled Poly(ethylene glycol) Buffer Layers in Polymer Solar Cells: Toward Superior Stability and Efficiency. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1354-1360.	3.1	42
698	Graphene As Transparent Conducting Electrodes in Organic Photovoltaics: Studies in Graphene Morphology, Hole Transporting Layers, and Counter Electrodes. <i>Nano Letters</i> , 2012, 12, 133-140.	9.1	295

#	ARTICLE	IF	CITATIONS
699	Prominent Short-Circuit Currents of Fluorinated Quinoxaline-Based Copolymer Solar Cells with a Power Conversion Efficiency of 8.0%. <i>Chemistry of Materials</i> , 2012, 24, 4766-4772.	6.7	329
700	Modelling of organic triple-junction solar cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
701	The new low-band gap polymers comprising Câ€¢, Siâ€¢, or Nâ€¢bridged dithiophene and alkoxyâ€¢modified 2,1,3â€¢benzooxadiazole units for bulk heterojunction solar cells. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3960-3969.	2.3	16
702	Electronâ€¢phonon coupling and charge-transfer excitations in organic systems from many-body perturbation theory. <i>Journal of Materials Science</i> , 2012, 47, 7472-7481.	3.7	31
703	Improved lifetime in organic solar cells using a bilayer cathode of organic interlayer/Al. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 160-165.	6.2	27
704	Synthesis of conjugated perylene diimide-based copolymer with 5,5â€¢-bis(4-aminophenyl)-2-â€¢-bifuryl moiety as an active material for organic photovoltaics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 247, 52-62.	3.9	14
705	Easily Attainable Phenothiazine-Based Polymers for Polymer Solar Cells: Advantage of Insertion of <i>S</i>,<i>S</i>-dioxides into its Polymer for Inverted Structure Solar Cells. <i>Macromolecules</i> , 2012, 45, 1847-1857.	4.8	52
706	Effect of MgO-coated TiO2 thin film on ITO/TiO2/MEHâ€¢PPV/Au solar cells. <i>Current Applied Physics</i> , 2012, 12, S198-S201.	2.4	1
707	Photovoltaic and electrocatalytic properties of novel ball-type phthalocyanines bridged with four dicumarol. <i>Dalton Transactions</i> , 2012, 41, 5177.	3.3	29
708	Optical and electrical effects of gold nanoparticles in the active layer of polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 1206-1211.	6.7	222
709	Self-assembled multilayers of modified ITO in polymer solar cells by soft-imprinting. <i>Soft Matter</i> , 2012, 8, 1467-1472.	2.7	6
710	Polymer brushes assisted loading of high density CdS/CdSe quantum dots onto TiO2 nanotubes and the resulting photoelectric performance. <i>RSC Advances</i> , 2012, 2, 3978.	3.6	16
711	P-type sensitized organic solar cells with cascade energy alignment. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 195101.	2.8	10
712	Selenopheneâ€¢Thiophene Block Copolymer Solar Cells with Thermostable Nanostructures. <i>ACS Nano</i> , 2012, 6, 7114-7121.	14.6	95
713	Synthesis and photovoltaic properties of benzo[1,2-b:4,5-bâ€¢]dithiophene derivative-based polymers with deep HOMO levels. <i>Journal of Materials Chemistry</i> , 2012, 22, 17709.	6.7	31
714	Sensitivity of the Mottâ€¢Schottky Analysis in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7672-7680.	3.1	259
715	Relationship between HOMO energy level and open circuit voltage of polymer solar cells. <i>Organic Electronics</i> , 2012, 13, 2185-2191.	2.6	22
716	Electropolymerized Conjugated Polyelectrolytes with Tunable Work Function and Hydrophobicity as an Anode Buffer in Organic Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3396-3404.	8.0	16



#	ARTICLE	IF	CITATIONS
717	Phenanthro[1,10,9,8-cdefg]carbazole-containing copolymer for high performance thin-film transistors and polymer solar cells. Journal of Materials Chemistry, 2012, 22, 3696.	6.7	26
718	Band structure engineering for low band gap polymers containing thienopyrazine. Journal of Materials Chemistry, 2012, 22, 7331.	6.7	14
719	Highly Efficient, Inverted Polymer Solar Cells with Indium Tin Oxide Modified with Solution-Processed Zwitterions as the Transparent Cathode. ACS Applied Materials & Interfaces, 2012, 4, 2009-2017.	8.0	78
720	Diindeno[2,3-b]thiophene arene for efficient organic photovoltaics with an extra high open-circuit voltage of 1.14 eV. Chemical Communications, 2012, 48, 3203.	4.1	47
721	Comparison of short and long wavelength absorption electron donor materials in C60-based planar heterojunction organic photovoltaics. Organic Electronics, 2012, 13, 2118-2129.	2.6	15
722	Functionalized dihydronaphthyl-C60 derivatives as acceptors for efficient polymer solar cells with tunable photovoltaic properties. Solar Energy Materials and Solar Cells, 2012, 104, 113-120.	6.2	24
723	Bi-functional electroluminescent and photovoltaic devices based on rubrene-doped poly(3-hexylthiophene):1-(3-methoxycarbonyl)-propyl-1-phenyl-(6,6)C61 blends. Synthetic Metals, 2012, 162, 281-284.	3.9	7
724	Optoelectronic devices based on ultra-violet light sensitive PVK:PCBM layers. Synthetic Metals, 2012, 162, 522-526.	3.9	2
725	Oligo(3-hexylthiophene)-functionalized dicyano-ethylene substituted quinacridone derivatives: synthesis, characterizations and applications as acceptors in photovoltaic devices. New Journal of Chemistry, 2012, 36, 1788.	2.8	12
726	Open-circuit voltage in organic solar cells. Journal of Materials Chemistry, 2012, 22, 24315.	6.7	262
727	Structural Modification of TiO <sub>2</sub> Surfaces in Bulk Water and Binding Motifs of a Functionalized C <sub>60</sub> on TiO <sub>2</sub> Anatase and Rutile Surfaces in Vacuo and in Water: Molecular Dynamics Studies. Journal of Physical Chemistry C, 2012, 116, 20937-20948.	3.1	4
728	D-π-A-π-D type benzothiadiazole-triphenylamine based small molecules containing cyano on the π-bridge for solution-processed organic solar cells with high open-circuit voltage. Chemical Communications, 2012, 48, 10627.	4.1	83
729	Liquid Crystal Helps ZnO Nanoparticles Self-Assemble for Performance Improvement of Hybrid Solar Cells. Journal of Physical Chemistry C, 2012, 116, 6332-6339.	3.1	31
730	Two dimensional photovoltaic copolymers based on new benzothiadiazole acceptors with diphenylamine-vinylene side chains. Polymer Chemistry, 2012, 3, 2933.	3.9	17
731	Alignment of poly(3,4-ethylenedioxythiophene) polymer chains in photovoltaic cells by ultraviolet irradiation. Journal of Materials Chemistry, 2012, 22, 22409.	6.7	40
732	ZnO/Graphene Quantum Dot Solid-State Solar Cell. Journal of Physical Chemistry C, 2012, 116, 20127-20131.	3.1	199
733	Hybrid solar cells: basic principles and the role of ligands. Journal of Materials Chemistry, 2012, 22, 2351-2368.	6.7	127
734	Photocurrent Generation in Carbon Nitride and Carbon Nitride/Conjugated Polymer Composites. ACS Applied Materials & Interfaces, 2012, 4, 4579-4587.	8.0	25

#	ARTICLE	IF	CITATIONS
735	Spectroscopic Imaging of Photopotentials and Photoinduced Potential Fluctuations in a Bulk Heterojunction Solar Cell Film. <i>ACS Nano</i> , 2012, 6, 9392-9401.	14.6	31
736	Impact of regioregularity on thin-film transistor and photovoltaic cell performances of pentacene-containing polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 4356.	6.7	14
737	Enhancement of photovoltaic characteristics of nanocrystalline 2,3-naphthalocyanine thin film-based organic devices. <i>Applied Surface Science</i> , 2012, 259, 600-609.	6.1	8
738	Insights from Transient Optoelectronic Analyses on the Open-Circuit Voltage of Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1465-1478.	4.6	237
739	Synthesis of a soluble fulleropyrrolidine derivative for use as an electron acceptor in bulk-heterojunction polymer solar cells. <i>Synthetic Metals</i> , 2012, 162, 483-489.	3.9	22
740	Modular construction and deconstruction of organic solar cells. <i>AIChE Journal</i> , 2012, 58, 3280-3288.	3.6	6
741	Benzo[c]thiophene-C60Diadduct: An Electron Acceptor for p-n Junction Organic Solar Cells Harvesting Visible to Near-IR Light. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2644-2649.	3.3	11
742	Synthesis and Photovoltaic Properties of Two-Dimensional Low-Bandgap Copolymers Based on New Benzothiadiazole Derivatives with Different Conjugated Arylvinylene Side Chains. <i>Chemistry - A European Journal</i> , 2012, 18, 12140-12151.	3.3	41
743	Synthesis of novel dithienothiophene- and 2,7-carbazole-based conjugated polymers and H-bonded effects on electrochromic and photovoltaic properties. <i>Journal of Polymer Science Part A</i> , 2012, 50, 5011-5022.	2.3	13
744	Porphyrin-diindenothieno[2,3-b <i>c</i> ]thiophene alternating copolymer—a blue-light harvester in ternary blend polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2012, 50, 5032-5040.	2.3	7
745	Polymer blends with semiconducting nanowires for organic electronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 4244.	6.7	66
746	Carbon nanotubes and organic solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 5919-5940.	30.8	158
747	FeCl <sub>3</sub> -Mediated Synthesis of Fullerenyl Esters as Low-LUMO Acceptors for Organic Photovoltaic Devices. <i>Organic Letters</i> , 2012, 14, 3276-3279.	4.6	60
748	Organic-inorganic hybrid solar cells: A comparative review. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 87-111.	6.2	550
749	Synthesis of seleno[3,4-c]pyrrole-4,6-dione-based polymers for polymer solar cells. <i>Synthetic Metals</i> , 2012, 162, 1707-1712.	3.9	9
750	Nanostructured layers of a new cross-linkable poly(3-hexylthiophene) in organic photovoltaic cells. <i>Synthetic Metals</i> , 2012, 162, 2052-2058.	3.9	25
751	Kinetics of charge transfer processes in organic solar cells: Implications for the design of acceptor molecules. <i>Organic Electronics</i> , 2012, 13, 2538-2545.	2.6	11
752	Comparative study of spectral and morphological properties of blends of P3HT with PCBM and ICBA. <i>Organic Electronics</i> , 2012, 13, 2333-2341.	2.6	33

#	ARTICLE	IF	CITATIONS
753	Polymer solar cells fabricated with 4,8-bis(2-ethylhexyloxy)benzo[1,2-b:4,5-b'â€²]dithiophene and alkyl-substituted thiophene-3-carboxylate-containing conjugated polymers: Effect of alkyl side-chain in thiophene-3-carboxylate monomer on the device performance. <i>Polymer</i> , 2012, 53, 3835-3841.	3.8	8
754	PEDOTsâ€™PCnBMs polymerâ€™fullerene BHJ solar cells: Quantum mechanical calculations of photovoltaic and photophysical properties. <i>Nano Energy</i> , 2012, 1, 608-623.	16.0	7
755	Hierarchical Top-Porous/Bottom-Tubular TiO <sub>2</sub> Nanostructures Decorated with Pd Nanoparticles for Efficient Photoelectrocatalytic Decomposition of Synergistic Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 990-996.	8.0	198
756	ELECTRICAL CHARACTERIZATION OF P3HT/PCBM BULK HETEROJUNCTION ORGANIC SOLAR CELL. <i>International Journal of Computational Materials Science and Engineering</i> , 2012, 01, 1250004.	0.7	8
757	Synthesis and photovoltaic properties of Dâ€™A copolymers of benzodithiophene and naphtho[2,3-c]thiophene-4,9-dione. <i>Polymer Chemistry</i> , 2012, 3, 99-104.	3.9	29
758	Tuning the photovoltaic parameters of thiophene-linked donorâ€™acceptor liquid crystalline copolymers for organic photovoltaics. <i>Polymer Chemistry</i> , 2012, 3, 710.	3.9	9
759	Light Energy Conversion at Carbon Nanotubes - Organic and Inorganic Interfaces: Photovoltaics, Photodetectors and Bolometers. , 2012, , 1-68.		3
760	Controlling Number of Indene Solubilizing Groups in Multiadduct Fullerenes for Tuning Optoelectronic Properties and Open-Circuit Voltage in Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 110-116.	8.0	89
761	Reusing of transmitted light by localized surface plasmon enhancing of Ag nanoparticles in organic solar cells. <i>Optoelectronics Letters</i> , 2012, 8, 401-404.	0.8	4
762	Dibenzothiophene-Based Planar Conjugated Polymers for High Efficiency Polymer Solar Cells. <i>Macromolecules</i> , 2012, 45, 7843-7854.	4.8	45
763	Stacking Orientation Mediation of Pentacene and Derivatives for High Open-Circuit Voltage Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1079-1083.	4.6	11
764	Stamping Transfer of a Quantum Dot Interlayer for Organic Photovoltaic Cells. <i>Langmuir</i> , 2012, 28, 9893-9898.	3.5	24
765	Structurally Defined High-LUMO-Level 66Î€-[70]Fullerene Derivatives: Synthesis and Application in Organic Photovoltaic Cells. <i>Chemistry of Materials</i> , 2012, 24, 2572-2582.	6.7	31
766	Dihydronaphthyl-based [60]fullerene bisadducts for efficient and stable polymer solar cells. <i>Chemical Communications</i> , 2012, 48, 425-427.	4.1	122
767	o-Quinodimethane-methano[60]fullerene and thieno-o-quinodimethane-methano[60]fullerene as efficient acceptor materials for polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22374.	6.7	55
768	Au nanoparticle-decorated graphene electrodes for GaN-based optoelectronic devices. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
769	Regioselective 1,2,3-bisazfulleroid: doubly N-bridged bisimino-PCBMs for polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22958.	6.7	11
770	Photophysical and Electronic Properties of Five PCBM-like C <sub>60</sub> Derivatives: Spectral and Quantum Chemical View. <i>Journal of Physical Chemistry A</i> , 2012, 116, 255-262.	2.5	73

#	ARTICLE	IF	CITATIONS
772	In situ growth nanocomposites composed of rodlike ZnO nanocrystals arranged by nanoparticles in a self-assembling diblock copolymer for heterojunction optoelectronics. Journal of Materials Chemistry, 2012, , .	6.7	6
773	Potential Applications for Solar Photocatalysis: From Environmental Remediation to Energy Conversion. , 0, , .		9
774	Performance characteristics of polymer photovoltaic solar cells with an additive-incorporated active layer. Nanoscale Research Letters, 2012, 7, 56.	5.7	4
775	Organic solar cell materials and active layer designsâ€”improvements with carbon nanotubes: a review. Polymer International, 2012, 61, 342-354.	3.1	69
776	Recent progress and future aspects of organic solar cells. Progress in Photovoltaics: Research and Applications, 2012, 20, 377-415.	8.1	156
777	Synthesis and photovoltaic properties of conjugated side chains polymers with different electronâ€”withdrawing and donating end groups. Journal of Polymer Science Part A, 2012, 50, 3848-3858.	2.3	21
778	Recent advances in solution-processed interfacial materials for efficient and stable polymer solar cells. Energy and Environmental Science, 2012, 5, 5994.	30.8	993
779	Small molecule semiconductors for high-efficiency organic photovoltaics. Chemical Society Reviews, 2012, 41, 4245.	38.1	1,601
780	Novel hollow mesoporous 1D TiO <sub>2</sub> nanofibers as photovoltaic and photocatalytic materials. Nanoscale, 2012, 4, 1707.	5.6	194
781	Synthesis and Photovoltaic Properties of Novel Monoadducts and Bisadducts Based on Amide Methanofullerene. ACS Applied Materials & Interfaces, 2012, 4, 1065-1071.	8.0	36
782	A comparison between dithienosilole and dithienogermole donorâ€”acceptor type co-polymers for organic bulk heterojunction photovoltaic devices. Journal of Materials Chemistry, 2012, 22, 9975.	6.7	24
783	Dye Bonding to TiO <sub>2</sub> : In Situ Attenuated Total Reflection Infrared Spectroscopy Study, Simulations, and Correlation with Dye-Sensitized Solar Cell Characteristics. Langmuir, 2012, 28, 11354-11363.	3.5	10
784	Structureâ€”Property Optimizations in Donor Polymers via Electronics, Substituents, and Side Chains Toward High Efficiency Solar Cells. Macromolecular Rapid Communications, 2012, 33, 1162-1177.	3.9	110
785	Spirobifluorene-Based Conjugated Polymers for Polymer Solar Cells with High Open-Circuit Voltage. Macromolecules, 2012, 45, 3017-3022.	4.8	34
786	High efficiency polymer solar cells based on poly(3-hexylthiophene)/indene-C70 bisadduct with solvent additive. Energy and Environmental Science, 2012, 5, 7943.	30.8	400
787	Overcoming efficiency challenges in organic solar cells: rational development of conjugated polymers. Energy and Environmental Science, 2012, 5, 8158.	30.8	189
788	Functional fullerenes for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 4161.	6.7	478
789	Benzodithiophene and Imide-Based Copolymers for Photovoltaic Applications. Chemistry of Materials, 2012, 24, 1346-1356.	6.7	58

#	ARTICLE	IF	CITATIONS
790	High-Performance Metal-Free Solar Cells Using Stamp Transfer Printed Vapor Phase Polymerized Poly(3,4-Ethylenedioxythiophene) Top Anodes. <i>Advanced Functional Materials</i> , 2012, 22, 1454-1460.	14.9	68
791	Solution Processable Monosubstituted Hexa-peri-Hexabenzocoronene Self-Assembling Dyes. <i>Advanced Functional Materials</i> , 2012, 22, 2015-2026.	14.9	13
792	Highly Efficient and Thermally Stable Polymer Solar Cells with Dihydronaphthyl-Based [70]Fullerene Bisadduct Derivative as the Acceptor. <i>Advanced Functional Materials</i> , 2012, 22, 2187-2193.	14.9	104
793	Large AuAg Alloy Nanoparticles Synthesized in Organic Media Using a One-Pot Reaction: Their Applications for High-Performance Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2012, 22, 3975-3984.	14.9	82
794	Beyond PCBM: Understanding the Photovoltaic Performance of Blends of Indene- <sub>60</sub> Multiadducts with Poly(3-hexylthiophene). <i>Advanced Functional Materials</i> , 2012, 22, 4115-4127.	14.9	63
795	Molecular Understanding of the Open-Circuit Voltage of Polymer:Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 229-237.	19.5	95
796	A New Terthiophene-Thienopyrrolodione Copolymer-Based Bulk Heterojunction Solar Cell with High Open-Circuit Voltage. <i>Advanced Energy Materials</i> , 2012, 2, 1397-1403.	19.5	98
799	A Supramolecular Complex in Small-Molecule Solar Cells based on Contorted Aromatic Molecules. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8594-8597.	13.8	82
800	Synthesis, Characterization, Optical and Electrochemical Properties of Fulleropyrrolidines Containing Trifluoromethyl Group. <i>Chinese Journal of Chemistry</i> , 2012, 30, 1097-1101.	4.9	3
801	Effects of Solubilizing Group Modification in Fullerene Bis-Adducts on Normal and Inverted Type Polymer Solar Cells. <i>Chemistry of Materials</i> , 2012, 24, 2373-2381.	6.7	166
802	Memory and Photovoltaic Elements in Organic Field Effect Transistors with Donor/Acceptor Planar-Hetero Junction Interfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9390-9397.	3.1	27
803	Material solubility and molecular compatibility effects in the design of fullerene/polymer composites for organic bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18433.	6.7	48
804	Photophysical and photovoltaic properties of a PPV type copolymer containing alternated fluorene and thiophene units. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	6
805	Heuristic approaches to the optimization of acceptor systems in bulk heterojunction cells: a computational study. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	2
806	Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. <i>Solar Energy</i> , 2012, 86, 1683-1688.	6.1	58
807	Open-circuit voltage of organic photovoltaics: Implications of the generalized Einstein relation for disordered semiconductors. <i>Solar Energy Materials and Solar Cells</i> , 2012, 97, 132-138.	6.2	19
808	Tricyanofuran-based donor-acceptor type chromophores for bulk heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 71-77.	6.2	25
809	Comparison between theoretical and experimental electronic properties of some popular donor polymers for bulk-heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 97, 139-149.	6.2	18

#	ARTICLE	IF	CITATIONS
810	Novel solution processable small molecule containing new electron-withdrawing group and oligothiophene for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 343-350.	6.2	10
811	Poor man's green bulk heterojunction photocells: A chlorine-free solvent for poly(3-hexylthiophene)/C60 composites. <i>Solar Energy Materials and Solar Cells</i> , 2012, 100, 246-250.	6.2	28
812	Open-circuit voltage and efficiency improvement of subphthalocyanine-based organic photovoltaic device through deposition rate control. <i>Solar Energy Materials and Solar Cells</i> , 2012, 103, 69-75.	6.2	39
813	Effect of residual catalyst on solar cells made of a fluorene-thiophene-benzothiadiazole copolymer as electron-donor: A combined electrical and photophysical study. <i>Organic Electronics</i> , 2012, 13, 550-559.	2.6	43
814	Coarse-grained kinetic modelling of bilayer heterojunction organic solar cells. <i>Organic Electronics</i> , 2012, 13, 750-761.	2.6	13
815	An efficient inverted organic solar cell with improved ZnO and gold contact layers. <i>Organic Electronics</i> , 2012, 13, 945-953.	2.6	51
816	Optimising the efficiency of carbazole co-polymer solar-cells by control over the metal cathode electrode. <i>Organic Electronics</i> , 2012, 13, 1401-1408.	2.6	26
817	CdSe quantum dot cathode buffer for inverted organic bulk hetero-junction solar cells. <i>Organic Electronics</i> , 2012, 13, 1302-1307.	2.6	11
818	Synthesis and photovoltaic behaviors of benzothiadiazole- and triphenylamine-based alternating copolymers. <i>Polymer</i> , 2012, 53, 324-332.	3.8	17
819	Synthesis of novel narrow-band-gap copolymers based on [1,2,5]thiadiazolo[3,4-f]benzotriazole and their application in bulk-heterojunction photovoltaic devices. <i>Polymer</i> , 2012, 53, 1465-1472.	3.8	41
820	Enhanced Performance of Organic Photovoltaic Cells Fabricated with a Methyl Thiophene-3-carboxylate-Containing Alternating Conjugated Copolymer. <i>Macromolecular Rapid Communications</i> , 2012, 33, 146-151.	3.9	18
821	Merocyanine/C <sub>60</sub> Planar Heterojunction Solar Cells: Effect of Dye Orientation on Exciton Dissociation and Solar Cell Performance. <i>Advanced Functional Materials</i> , 2012, 22, 86-96.	14.9	98
822	Drastic Change of Molecular Orientation in a Thiazolothiazole Copolymer by Molecular Weight Control and Blending with PC <sub>61</sub> BM Leads to High Efficiencies in Solar Cells. <i>Advanced Materials</i> , 2012, 24, 425-430.	21.0	157
823	Tuning the Energy Level Offset between Donor and Acceptor with Ferroelectric Dipole Layers for Increased Efficiency in Bilayer Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2012, 24, 1455-1460.	21.0	127
824	Small Molecule Organic Semiconductors on the Move: Promises for Future Solar Energy Technology. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2020-2067.	13.8	1,632
825	Temperature-dependence on the optical properties and the phase separation of polymer-fullerene thin films. <i>Journal of Materials Science</i> , 2012, 47, 4282-4289.	3.7	17
826	Facile synthesis of poly(3-hexylthiophene)-block-poly(ethylene oxide) copolymers via Steglich esterification. <i>Polymer Chemistry</i> , 2013, 4, 3652.	3.9	23
827	Fine Structural Tuning of Cyanated Dithieno[3,2-b:6,5-b']silole-Oligothiophene Copolymers: Synthesis, Characterization, and Photovoltaic Response. <i>Macromolecules</i> , 2013, 46, 6419-6430.	4.8	37



#	ARTICLE	IF	CITATIONS
828	Synthesis and photovoltaic performance of a fluorene-bithiophene copolymer. Journal of Polymer Research, 2013, 20, 1.	2.4	8
829	Improved Open-Circuit Voltage in Polymer/Oxide-Nanoarray Hybrid Solar Cells by Formation of Homogeneous Metal Oxide Core/Shell Structures. ACS Applied Materials & Interfaces, 2013, 5, 3246-3254.	8.0	35
830	Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymerâ€Fullerene Solar Cells While Electron Transfer Remains Active. Advanced Functional Materials, 2013, 23, 1238-1249.	14.9	101
831	Cyclobutadieneâ€C<sub>60</sub> Adducts: Nâ€Type Materials for Organic Photovoltaic Cells with High V<sub>OC</sub>. Advanced Functional Materials, 2013, 23, 3061-3069.	14.9	33
832	Enhancing the Performance of Polymer Photovoltaic Cells by Using an Alcohol Soluble Fullerene Derivative as the Interfacial Layer. ACS Applied Materials & Interfaces, 2013, 5, 8076-8080.	8.0	41
833	Enhanced open-circuit voltage in organic photovoltaic cells with partially chlorinated zinc phthalocyanine. Journal of Materials Science, 2013, 48, 7104-7114.	3.7	14
834	Improved photovoltaic characteristics of organic cells with heterointerface layer as a hole-extraction layer inserted between ITO anode and donor layer. Organic Electronics, 2013, 14, 1805-1810.	2.6	16
835	Structural Factors That Affect the Performance of Organic Bulk Heterojunction Solar Cells. Macromolecules, 2013, 46, 6379-6387.	4.8	145
838	Importance of Optimal Composition in Random Terpolymer-Based Polymer Solar Cells. Macromolecules, 2013, 46, 6806-6813.	4.8	137
839	Synthesis and photovoltaic behavior of two new alternative donorâ€acceptor conjugated copolymers containing isoindigo moiety. Polymers for Advanced Technologies, 2013, 24, 945-950.	3.2	6
840	New materials based on thiazolothiazole and thiophene candidates for optoelectronic device applications: theoretical investigations. Research on Chemical Intermediates, 2013, 39, 2679-2695.	2.7	8
841	Solution Processed ZnO Hybrid Nanocomposite with Tailored Work Function for Improved Electron Transport Layer in Organic Photovoltaic Devices. ACS Applied Materials & Interfaces, 2013, 5, 9128-9133.	8.0	32
842	Fabrication of nanostructured ZnO film as a hole-conducting layer of organic photovoltaic cell. Nanoscale Research Letters, 2013, 8, 240.	5.7	6
843	Multiscale Modeling and Simulation for Optimizing Polymer Bulk Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 300-309.	2.5	12
844	Control of Interface Order by Inverse Quasi-Epitaxial Growth of Squaraine/Fullerene Thin Film Photovoltaics. ACS Nano, 2013, 7, 9268-9275.	14.6	59
845	Fluoreneâ€based copolymers with donorâ€acceptor units on the side chain and main chain: Synthesis and application in polymer solar cells. Journal of Applied Polymer Science, 2013, 130, 3276-3281.	2.6	12
846	Influence of Incorporating Different Electron-Rich Thiophene-Based Units on the Photovoltaic Properties of Isoindigo-Based Conjugated Polymers: An Experimental and DFT Study. Macromolecules, 2013, 46, 8488-8499.	4.8	58
847	Ambient roll-to-roll fabrication of flexible solar cells based on small molecules. Journal of Materials Chemistry C, 2013, 1, 8007.	5.5	59



#	ARTICLE	IF	CITATIONS
848	Effect of band tail states on the performance of organic solar cells. RSC Advances, 2013, 3, 20567.	3.6	0
849	Metal-induced molecular diffusion in [6,6]-phenyl-C61-butyric acid methyl ester poly(3-hexylthiophene) based bulk-heterojunction solar cells. Applied Physics Letters, 2013, 103, 183506.	3.3	8
850	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. Chemistry of Materials, 2013, 25, 4239-4249.	6.7	55
851	High-performance polymer photovoltaics based on rationally designed fullerene acceptors. Solar Energy Materials and Solar Cells, 2013, 118, 171-178.	6.2	25
852	Tuning the properties of an anthracene-based PPE-PPV copolymer by fine variation of its macromolecular parameters. RSC Advances, 2013, 3, 6972.	3.6	9
853	Nanoenergy. , 2013, , .		5
854	PPy:PSS as alternative to PEDOT:PSS in organic photovoltaics. Synthetic Metals, 2013, 185-186, 71-78.	3.9	27
855	A simple monomer-based model-Hamiltonian approach to combine excitonic coupling and Jahn-Teller theory. Journal of Chemical Physics, 2013, 139, 174101.	3.0	4
856	Deuterium Isotope Effect on Bulk Heterojunction Solar Cells. Enhancement of Organic Photovoltaic Performances Using Monobenzyl Substituted Deuteriofullerene Acceptors. Organic Letters, 2013, 15, 5674-5677.	4.6	12
857	Evolution of Lateral Structures during the Functional Stack Build-up of P3HT:PCBM-Based Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 8581-8590.	8.0	36
858	Photochemical Charge Separation in Poly(3-hexylthiophene) (P3HT) Films Observed with Surface Photovoltage Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 26905-26913.	3.1	41
859	Photoinduced charge injection in the metal/organic interface studied by transient photovoltage measurements with bias. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2012-2015.	5.1	2
860	The effect of structural order on solar cell parameters, as illustrated in a SiC-organic junction model. Energy and Environmental Science, 2013, 6, 3272.	30.8	8
861	Solution processed naphthalene diimide derivative as electron transport layers for enhanced brightness and efficient polymer light emitting diodes. Journal of Materials Chemistry C, 2013, 1, 3347.	5.5	16
862	J-aggregation of a squaraine dye and its application in organic photovoltaic cells. Journal of Materials Chemistry C, 2013, 1, 6547.	5.5	91
863	Organic Photovoltaics. , 2013, , 423-442.		10
864	Tuning zinc oxide/organic energy level alignment using mixed triethoxysilane monolayers. Journal of Materials Chemistry C, 2013, 1, 5935.	5.5	18
865	Effects of side chains on physical and photovoltaic properties of methyl thiophene-3-carboxylate containing dithienopyrrole-based copolymers. Synthetic Metals, 2013, 182, 22-27.	3.9	3

#	ARTICLE	IF	CITATIONS
866	Towards 15% energy conversion efficiency: a systematic study of the solution-processed organic tandem solar cells based on commercially available materials. <i>Energy and Environmental Science</i> , 2013, 6, 3407.	30.8	96
867	Influence of intermolecular interactions of electron donating small molecules on their molecular packing and performance in organic electronic devices. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14538.	10.3	86
868	Photocatalytic and antibacterial properties of Au-TiO <sub>2</sub> nanocomposite on monolayer graphene: From experiment to theory. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	41
869	2D $\pi$ -conjugated benzo[1,2-b:4,5-b']dithiophene- and quinoxaline-based copolymers for photovoltaic applications. <i>RSC Advances</i> , 2013, 3, 24543.	3.6	34
870	Tracing charge transfer states in polymer:fullerene bulk-heterojunctions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7321.	10.3	11
871	Cyanothiophene-based low band-gap polymer for organic solar cells. <i>RSC Advances</i> , 2013, 3, 6799.	3.6	7
872	Polyacetylene $\pi$ -n Junctions with Varying Dopant Density by Polyelectrolyte-Mediated Electrochemistry. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1600-1610.	3.1	6
873	Fluorine substituted thiophene- $\pi$ -quinoxalinecopolymer to reduce the HOMO level and increase the dielectric constant for high open-circuit voltage organic solar cells. <i>Journal of Materials Chemistry C</i> , 2013, 1, 630-637.	5.5	101
874	Functional 2-benzyl-1,2-dihydro[60]fullerenes as acceptors for organic photovoltaics: facile synthesis and high photovoltaic performances. <i>Tetrahedron</i> , 2013, 69, 1302-1306.	1.9	12
875	Factors Limiting Device Efficiency in Organic Photovoltaics. <i>Advanced Materials</i> , 2013, 25, 1847-1858.	21.0	550
876	Improving efficiency of organic solar cells by preparing aluminum-doped zinc oxide films by ion beam-assisted sputtering. <i>Organic Electronics</i> , 2013, 14, 182-186.	2.6	3
877	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2582.	10.3	36
878	Theoretical investigations for organic solar cells. <i>Materials Technology</i> , 2013, 28, 40-64.	3.0	14
879	Synthesis and characterization of copolymers based on benzotriazoles and different atom-bridged dithiophenes for efficient solar cells. <i>Polymer Chemistry</i> , 2013, 4, 2496.	3.9	17
880	Using Self-Organization To Control Morphology in Molecular Photovoltaics. <i>Journal of the American Chemical Society</i> , 2013, 135, 2207-2212.	13.7	126
881	High LUMO energy level C <sub>60</sub> (OCH <sub>3</sub> ) <sub>4</sub> derivatives: Electronic acceptors for photovoltaic cells with higher open-circuit voltage. <i>Solar Energy Materials and Solar Cells</i> , 2013, 111, 193-199.	6.2	29
882	A facile one-pot reactive solution blending approach for main-chain donor-acceptor polymeric materials. <i>Journal of Polymer Science Part A</i> , 2013, 51, 509-524.	2.3	7
883	Efficiency enhancement caused by using LiF to change electronic structures in polymer photovoltaics. <i>Thin Solid Films</i> , 2013, 545, 361-364.	1.8	6

#	ARTICLE	IF	CITATIONS
885	Highly doped fullerene C60 thin films as transparent stand alone top electrode for organic solar cells. Solar Energy Materials and Solar Cells, 2013, 118, 165-170.	6.2	11
886	Side chain effect on electronic structure of spin-coated films of [6,6]-phenyl-C61-butyric acid methyl ester and its bis-adduct. Chemical Physics, 2013, 415, 31-35.	1.9	12
887	Enhanced photovoltaic performance of inverted polymer solar cells by tuning the structures of titanium dioxide. Thin Solid Films, 2013, 545, 424-428.	1.8	14
888	High Efficiency Polymer Solar Cells Enhanced by Solvent Treatment. Advanced Materials, 2013, 25, 1646-1652.	21.0	455
889	Model for the $J-V$ characteristics of degraded polymer solar cells. Journal of Applied Physics, 2013, 113, .	2.5	21
890	Solution-Processed Fullerene-Based Organic Schottky Junction Devices for Large Open-Circuit Voltage Organic Solar Cells. Advanced Materials, 2013, 25, 572-577.	21.0	101
891	Rational design on n-type organic materials for high performance organic photovoltaics. RSC Advances, 2013, 3, 7160.	3.6	138
892	Effect of Fluorination on the Properties of a Donor-Acceptor Copolymer for Use in Photovoltaic Cells and Transistors. Chemistry of Materials, 2013, 25, 277-285.	6.7	218
895	Reassessing the use of one-electron energetics in the design and characterization of organic photovoltaics. Physical Chemistry Chemical Physics, 2013, 15, 4538.	2.8	60
896	Solution-processed bulk heterojunction solar cells based on BF <sub>2</sub> -hydroxychalcone complexes. Chemical Communications, 2013, 49, 3555.	4.1	25
897	Conjugated random copolymers of benzodithiophene-benzooxadiazole-diketopyrrolopyrrole with full visible light absorption for bulk heterojunction solar cells. Polymer Chemistry, 2013, 4, 5321.	3.9	79
898	Dye sensitization of polymer/fullerene solar cells incorporating bulky phthalocyanines. Electrochimica Acta, 2013, 100, 214-219.	5.2	25
899	IR sensitization of an indene-C60 bisadduct (ICBA) in ternary organic solar cells. Energy and Environmental Science, 2013, 6, 1796.	30.8	101
900	Investigating the Influence of Interfacial Contact Properties on Open Circuit Voltages in Organic Photovoltaic Performance: Work Function Versus Selectivity. Advanced Energy Materials, 2013, 3, 647-656.	19.5	122
901	Highly efficient organic $p-i-n$ photovoltaic cells based on tetraphenyl dibenzoperiflanthene and fullerene C <sub>70</sub> . Energy and Environmental Science, 2013, 6, 249-255.	30.8	57
902	Correlation of polymeric compatibilizer structure to its impact on the morphology and function of P3HT:PCBM bulk heterojunctions. Journal of Materials Chemistry A, 2013, 1, 5309.	10.3	33
903	Novel Cathode Interlayers Based on Neutral Alcohol-Soluble Small Molecules with a Triphenylamine Core Featuring Polar Phosphonate Side Chains for High-Performance Polymer Light-Emitting and Photovoltaic Devices. Macromolecular Rapid Communications, 2013, 34, 595-603.	3.9	44
904	Self-Organized Hole Transport Layers Based on Polythiophene Diblock Copolymers for Inverted Organic Solar Cells with High Efficiency. Chemistry of Materials, 2013, 25, 897-904.	6.7	57

#	ARTICLE	IF	CITATIONS
906	Novel BODIPY-based conjugated polymers donors for organic photovoltaic applications. RSC Advances, 2013, 3, 10221.	3.6	33
907	5,10-Dihydroindolo[3,2- <i>b</i> ]indole-Based Copolymers with Alternating Donor and Acceptor Moieties for Organic Photovoltaics. Macromolecules, 2013, 46, 1350-1360.	4.8	63
908	Evaluation of methods to extract parameters from current-voltage characteristics of solar cells. Solar Energy, 2013, 90, 51-57.	6.1	69
909	Incorporation of Inorganic Nanoparticles into Bulk Heterojunction Organic Solar Cells. , 2013, , 1-47.		2
910	Efficient Solution-Processed Small-Molecule Solar Cells with Inverted Structure. Advanced Materials, 2013, 25, 2397-2402.	21.0	480
912	Synthesis and characterization of a low band gap quinoxaline based D-A copolymer and its application as a donor for bulk heterojunction polymer solar cells. Polymer Chemistry, 2013, 4, 4033.	3.9	33
913	Fluorinated thienyl-quinoxaline-based D-A-type copolymer toward efficient polymer solar cells: synthesis, characterization, and photovoltaic properties. Polymer Chemistry, 2013, 4, 3411.	3.9	46
914	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. Organic Electronics, 2013, 14, 523-534.	2.6	22
915	Fluorine Substituents Reduce Charge Recombination and Drive Structure and Morphology Development in Polymer Solar Cells. Journal of the American Chemical Society, 2013, 135, 1806-1815.	13.7	528
916	Thieno[3,2- <i>b</i> ]thiophene-Bridged D-A Polymer Semiconductor Based on Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]dithiophene and Benzoxadiazole. Macromolecules, 2013, 46, 4805-4812.	4.8	66
917	Electron Affinity of Phenyl-C <sub>61</sub> -Butyric Acid Methyl Ester (PCBM). Journal of Physical Chemistry C, 2013, 117, 14958-14964.	3.1	91
918	Optimizing the organic solar cell efficiency: Role of the active layer thickness. Solar Energy Materials and Solar Cells, 2013, 113, 100-105.	6.2	65
919	Tuning the frontier molecular orbital energy levels of <i>n</i> -type conjugated copolymers by using angular-shaped naphthalene tetracarboxylic diimides, and their use in all-polymer solar cells with high open-circuit voltages. Journal of Polymer Science Part A, 2013, 51, 1999-2005.	2.3	23
920	Self-Assembled Monolayer Immobilized Gold Nanoparticles for Plasmonic Effects in Small Molecule Organic Photovoltaic. ACS Applied Materials & Interfaces, 2013, 5, 511-517.	8.0	35
921	Novel isoindigo-based conjugated polymers for solar cells and field effect transistors. Polymer Chemistry, 2013, 4, 3563.	3.9	30
922	A Solution-Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for High-Performance Organic Solar Cells. Advanced Energy Materials, 2013, 3, 1166-1170.	19.5	203
923	Synthesis of Novel Acceptor Molecules of Mono- and Multiadduct Fullerene Derivatives for Improving Photovoltaic Performance. ACS Applied Materials & Interfaces, 2013, 5, 1061-1069.	8.0	22
924	Improving the stability of P3HT/PC61BM solar cells by a thermal crosslinker. Journal of Materials Chemistry A, 2013, 1, 4589.	10.3	39

#	ARTICLE	IF	CITATIONS
925	The role of dynamic measurements in correlating structure with optoelectronic properties in polymerâ€%fullerene bulk-heterojunction solar cells. Reports on Progress in Physics, 2013, 76, 022501.	20.1	41
926	Novel conjugated polymers with planar backbone bearing acenaphtho[1,2-b]quinoxaline acceptor subunit for polymer solar cells. Synthetic Metals, 2013, 175, 21-29.	3.9	17
927	Imaging the Electric Potential within Organic Solar Cells. Advanced Functional Materials, 2013, 23, 5854-5860.	14.9	41
928	Openâ€Circuit Voltage and Effective Gap of Organic Solar Cells. Advanced Functional Materials, 2013, 23, 5814-5821.	14.9	80
929	Effects of tetramethylene sulfone solvent additives on conductivity of PEDOT:PSS film and performance of polymer photovoltaic cells. Organic Electronics, 2013, 14, 402-410.	2.6	55
930	Deciphering the Metal-C<sub>60</sub> Interface in Optoelectronic Devices: Evidence for C<sub>60</sub> Reduction by Vapor Deposited Al. ACS Applied Materials & Interfaces, 2013, 5, 6001-6008.	8.0	21
931	Sustainable synthetic approach to Î€-conjugated arylacetylenic semiconductors for bulk heterojunction solar cells. RSC Advances, 2013, 3, 9288.	3.6	15
933	Atomic-Scale Interfacial Band Mapping across Vertically Phased-Separated Polymer/Fullerene Hybrid Solar Cells. Nano Letters, 2013, 13, 2387-2392.	9.1	53
934	Biobased plastics and bionanocomposites: Current status and future opportunities. Progress in Polymer Science, 2013, 38, 1653-1689.	24.7	866
935	A new two-dimensional oligothiophene end-capped with alkyl cyanoacetate groups for highly efficient solution-processed organic solar cells. Chemical Communications, 2013, 49, 4409.	4.1	66
936	Oligothiopheneâ€Bridged Bis(arylene ethynylene) Small Molecules for Solutionâ€Processible Organic Solar Cells with High Openâ€Circuit Voltage. Chemistry - an Asian Journal, 2013, 8, 1892-1900.	3.3	15
937	Ethynylene-Linked Donorâ€Acceptor Alternating Copolymers. Macromolecules, 2013, 46, 3367-3375.	4.8	57
938	Dithienosilole-bridged small molecules with different alkyl group substituents for organic solar cells exhibiting high open-circuit voltage. Journal of Materials Chemistry A, 2013, 1, 7622.	10.3	38
939	Experimental Studies of Plasmonic Nanoparticle Effects on Organic Solar Cells. Green Energy and Technology, 2013, , 211-242.	0.6	1
940	Fullerenes and carbon nanotubes as acceptor materials in organic photovoltaics. Materials Letters, 2013, 90, 115-125.	2.6	63
941	Limit of Voc in polymeric bulk heterojunction solar cells predicted by a double-junction model. Solar Energy Materials and Solar Cells, 2013, 108, 17-21.	6.2	13
942	Yet another poor man's green bulk heterojunction photocells: Annealing effect and film composition dependence of photovoltaic devices using poly(3-hexylthiophene):C70 composites prepared with chlorine-free solvent. Solar Energy Materials and Solar Cells, 2013, 108, 82-86.	6.2	42
943	A multireference perturbation method using non-orthogonal Hartree-Fock determinants for ground and excited states. Journal of Chemical Physics, 2013, 139, 174104.	3.0	29

#	ARTICLE	IF	CITATIONS
944	Cascade organic solar cells with energy-level-matched three photon-harvesting layers. Chemical Physics Letters, 2013, 557, 88-91.	2.6	15
945	Influence of Fullerene Multiadducts on the Morphology and Charge Photogeneration of Their Photovoltaic Blends with Poly(3-hexylthiophene). Journal of Physical Chemistry C, 2013, 117, 25898-25907.	3.1	13
946	Fabrication of multiscale electrodes on organic photovoltaic thin films and in situ electrical characterization by nanostencil combined with Qplus AFM. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 021803.	1.2	3
947	Electronic Structures and Optical Properties of Phenyl C71Butyric Acid Methyl Esters. Journal of Nanomaterials, 2013, 2013, 1-8.	2.7	3
948	Improvement of Photovoltaic Characteristics by MoO <sub>3</sub> Doping of Thick Hole-Transporting Films. Japanese Journal of Applied Physics, 2013, 52, 04CR12.	1.5	5
949	Improvement of Open-Circuit Voltage in Organic Photovoltaic Cells with Chemically Modified Indium-Tin Oxide. World Journal of Nano Science and Engineering, 2013, 03, 113-120.	0.3	0
950	Effect of Molecular Weight on the Photovoltaic Performance of a Low band gap Copolymer blended with ICBA. Materials Research Society Symposia Proceedings, 2013, 1537, 1.	0.1	1
951	Morphology and Performance of Poly(2-methoxy-5-(2-ethylhexyloxy)-p-phenylenevinylene) (MEH-PPV): (6,6)-phenyl-C <sub>61</sub> -butyric Acid Methyl Ester (PCBM) Based Polymer Solar Cells. Chinese Journal of Chemistry, 2013, 31, 731-736.	4.9	8
952	Dual roles of MoO <sub>3</sub> -doped pentacene thin films as hole-extraction and multicharge-separation functions in pentacene/C <sub>60</sub> heterojunction organic solar cells. Applied Physics Letters, 2013, 102, .	3.3	30
953	High-performance and air-processed polymer solar cells by room-temperature drying of the active layer. Applied Physics Letters, 2013, 102, 043307.	3.3	11
954	Synthesis and Photovoltaic Properties of Polythiophene Incorporating with 3,4-difluorothiophene Units. Chinese Journal of Chemistry, 2013, 31, 1385-1390.	4.9	5
955	Multiscale modeling and simulation for optimizing polymer bulk heterojunction solar cells. , 2013, .		0
956	New Experimental Method to Precisely Examine the LUMO Levels of Organic Semiconductors and Application to the Fullerene Derivatives. Materials Research Society Symposia Proceedings, 2013, 1493, 295-301.	0.1	13
957	An overview of molecular acceptors for organic solar cells. EPJ Photovoltaics, 2013, 4, 40401.	1.6	56
959	Electronic and Optical Properties at Organic/Organic Interfaces in Organic Solar Cells. Topics in Current Chemistry, 2014, 352, 103-150.	4.0	6
960	Poly(3-hexyl thiophene)-b- Fullerene Functionalized Polystyrene Copolymers (P3HT-b-PSFu) as Compatibilizer in P3HT/Phenyl-C <sub>61</sub> -butyric Acid Methyl Ester (PCBM) Solar Cells. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 476-485.	3.4	7
961	Nongeminate recombination in neat P3HT and P3HT:PCBM blend films. Journal of Applied Physics, 2014, 115, .	2.5	58
962	Enhancement Mechanisms of the Power Conversion Efficiency for the P3HT:PCBM Bulk Heterojunction Solar Cells with a LiF Cathode Buffer Layer Due to Thermal Annealing. Molecular Crystals and Liquid Crystals, 2014, 602, 159-167.	0.9	0



#	ARTICLE	IF	CITATIONS
963	Efficient solution-processed small-molecule solar cells with titanium suboxide as an electric adhesive layer. Applied Physics Letters, 2014, 104, .	3.3	9
964	Planar heterojunction organic photovoltaic cells based on tetramethyl substituted copper(II) phthalocyanine treated with thermal annealing. Journal Physics D: Applied Physics, 2014, 47, 415104.	2.8	3
965	Crystallites of $\pm$ -Sexithiophene in Bilayer Small Molecule Organic Solar Cells Double Efficiency. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	3
966	Introduction to Organic Solar Cells. , 2014, , 1-18.		3
967	Effects of Organic Solvents for Composite Active Layer of PCDTBT/PC <sub>71</sub> BM on Characteristics of Organic Solar Cell Devices. International Journal of Photoenergy, 2014, 2014, 1-8.	2.5	16
968	Novel Terthiophene-Substituted Fullerene Derivatives as Easily Accessible Acceptor Molecules for Bulk-Heterojunction Polymer Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-10.	2.5	8
969	Contrary interfacial exciton dissociation at metal/organic interface in regular and reverse configuration organic solar cells. Applied Physics Letters, 2014, 105, 103302.	3.3	23
970	Solution processable interface materials for nanoparticulate organic photovoltaic devices. Applied Physics Letters, 2014, 104, 043902.	3.3	7
971	Over 1.1 eV Workfunction Tuning of Cesium Intercalated Metal Oxides for Functioning as Both Electron and Hole Transport Layers in Organic Optoelectronic Devices. Advanced Functional Materials, 2014, 24, 7348-7356.	14.9	44
972	Auger electron nanoscale mapping and x-ray photoelectron spectroscopy combined with gas cluster ion beam sputtering to study an organic bulk heterojunction. Applied Physics Letters, 2014, 104, 243303.	3.3	6
973	Organic solar cells: a rigorous model of the donor-acceptor interface for various bulk heterojunction morphologies. Journal of Applied Physics, 2014, 115, 054508.	2.5	3
974	Influence of the density of states on the open-circuit voltage in small-molecule solar cells. Organic Electronics, 2014, 15, 2553-2560.	2.6	14
975	Establishment of a linear correlation between the LUMO levels of fullerenes and the Hammett constants of substituents installed: An experimental and theoretical study. Synthetic Metals, 2014, 198, 357-360.	3.9	11
976	Bridging donor-acceptor energy offset using organic dopants as energy ladders to improve open-circuit voltages in bulk-heterojunction solar cells. Organic Electronics, 2014, 15, 3458-3464.	2.6	13
977	Built-in voltage of organic bulk heterojunction p-i-n solar cells measured by electroabsorption spectroscopy. AIP Advances, 2014, 4, .	1.3	11
978	In Situ Switching from Barrier-Limited to Ohmic Anodes for Efficient Organic Optoelectronics. Advanced Functional Materials, 2014, 24, 3051-3058.	14.9	33
979	An electro-optical and electron injection study of benzothiazole-based squaraine dyes as efficient dye-sensitized solar cell materials: a first principles study. Journal of Molecular Modeling, 2014, 20, 2517.	1.8	9
980	Influence of the Electron Deficient Co-Monomer on the Optoelectronic Properties and Photovoltaic Performance of Dithienogermole-based Co-Polymers. Advanced Functional Materials, 2014, 24, 678-687.	14.9	59



#	ARTICLE	IF	CITATIONS
981	Gelation of a Solution of Poly(3-hexylthiophene) Greatly Retards Its Crystallization Rate in the Subsequently Cast Film. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14510-14518.	2.6	12
982	Solution-Processed Parallel Tandem Polymer Solar Cells Using Silver Nanowires as Intermediate Electrode. <i>ACS Nano</i> , 2014, 8, 12632-12640.	14.6	34
983	A new dithienosilole-based oligothiophene with methyldicyanovinyl groups for high performance solution-processed organic solar cells. <i>Organic Electronics</i> , 2014, 15, 3800-3804.	2.6	18
984	Carrier behavior in special multilayer device composed of different transition metal oxide-based intermediate connectors. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	4
985	A designed bithiopheneimide-based conjugated polymer for organic photovoltaic with ultrafast charge transfer at donor/PC71BM interface: theoretical study and characterization. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25799-25808.	2.8	51
986	Evaluation of Built-in Potential and Loss Mechanisms at Contacts in Organic Solar Cells: Device Model Parameterization, Validation, and Prediction. <i>Advanced Energy Materials</i> , 2014, 4, 1200972.	19.5	21
987	A Conjugated Random Copolymer of Benzodithiophene- <i>co</i> -Difluorobenzene- <i>co</i> -Diketopyrrolopyrrole with Full Visible-Light Absorption for Bulk-Heterojunction Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2119-2124.	2.2	4
988	Interfacial Layers in Organic Solar Cells. , 2014, , 121-176.		4
989	A hybrid solar cell based on silicon nanowire and organic thin film. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2503-2508.	1.8	11
991	On the role of aggregation effects in the performance of perylene-diimide based solar cells. <i>Organic Electronics</i> , 2014, 15, 1347-1361.	2.6	60
992	Quantum chemical investigations study of the effect of electron donor units on the structural, electronic and optoelectronic properties of diarylthienopyrazine analogs. <i>Computational and Theoretical Chemistry</i> , 2014, 1036, 22-30.	2.5	10
993	Small-Molecule Solar Cells with Fill Factors up to 0.75 via a Layer-by-Layer Solution Process. <i>Advanced Energy Materials</i> , 2014, 4, 1300626.	19.5	90
994	Effects of Fullerene Bisadduct Regioisomers on Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2014, 24, 158-163.	14.9	104
995	A facile approach to fabricate solution-processable metal oxides for interfacial layer in polymer solar cells. <i>Organic Electronics</i> , 2014, 15, 1235-1243.	2.6	12
996	Applications of functional fullerene materials in polymer solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1866.	30.8	174
997	Reducing Regioisomers of Fullerene-Bisadducts by Tether-Directed Remote Functionalization: Investigation of Electronically and Sterically Isomeric Effects on Bulk-Heterojunction Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 996-1004.	8.0	28
998	New narrow-band-gap conjugated copolymers based on benzodithiophene: Synthesis and photovoltaic properties. <i>Polymer Science - Series B</i> , 2014, 56, 89-108.	0.8	2
999	Small Molecular Donors for Organic Solar Cells Obtained by Simple and Clean Synthesis. <i>ChemSusChem</i> , 2014, 7, 1046-1050.	6.8	21

#	ARTICLE	IF	CITATIONS
1000	8.9% Singleâ€Stack Inverted Polymer Solar Cells with Electronâ€Rich Polymer Nanolayerâ€Modified Inorganic Electronâ€Collecting Buffer Layers. <i>Advanced Energy Materials</i> , 2014, 4, 1301692.	19.5	218
1001	Structural Defects Control the Energy Level Alignment at Organic/Organic Interfaces. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400004.	3.7	18
1002	Push-pull effect on the charge transport properties in anthra[2,3-b]thiophene derivatives used as dye-sensitized and heterojunction solar cell materials. <i>Synthetic Metals</i> , 2014, 190, 27-33.	3.9	23
1004	Sideâ€Chain Engineering for Fineâ€Tuning of Energy Levels and Nanoscale Morphology in Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400087.	19.5	67
1005	Effects of Solvent Additives on Morphology, Charge Generation, Transport, and Recombination in Solutionâ€Processed Smallâ€Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301469.	19.5	194
1006	Recent Advances in Polymer Solar Cells: Realization of High Device Performance by Incorporating Water/Alcoholâ€Soluble Conjugated Polymers as Electrode Buffer Layer. <i>Advanced Materials</i> , 2014, 26, 1006-1024.	21.0	231
1007	Fine tuning of frontier orbital energy levels in dithieno[3,2-b:2â€2,3â€d]silole-based copolymers based on the substituent effect of phenyl pendants. <i>Polymer</i> , 2014, 55, 2139-2145.	3.8	7
1011	Synthesis and characterization of novel fulleropyrrolidine inâ€P3HTâ€blended bulk heterojunction solar cells. <i>Polymer</i> , 2014, 55, 1769-1781.	3.8	16
1012	Annealing effects of Au nanoparticles embedded PEDOT:PSS in bulk heterojunction organic solar cells. <i>Synthetic Metals</i> , 2014, 192, 101-105.	3.9	9
1013	Donorâ€Acceptor Hybrids for Organic Electronics. <i>Israel Journal of Chemistry</i> , 2014, 54, 429-439.	2.3	23
1014	Highly transparent Nb-doped indium oxide electrodes for organic solar cells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, 021202.	2.1	6
1015	Solution-processed pentathiophene dendrimer based photodetectors for digital cameras. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 245-251.	7.8	16
1016	Stoichiometric dependence of TiOx as a cathode modifier on band alignment of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 233-238.	6.2	11
1017	Polymer aggregation correlated transition from Schottky-junction to bulk heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2014, 104, 143304.	3.3	22
1018	Chemically Controlled Reversible and Irreversible Extraction Barriers Via Stable Interface Modification of Zinc Oxide Electron Collection Layer in Polycarbazoleâ€Based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 4671-4680.	14.9	76
1019	Titanium Dioxide Nanomaterials for Photovoltaic Applications. <i>Chemical Reviews</i> , 2014, 114, 10095-10130.	47.7	669
1020	Complete Demonstration of the Valence Electronic Structure Inside a Practical Organic Solar Cell Probed by Low Energy Photoemission. <i>Advanced Energy Materials</i> , 2014, 4, 1301354.	19.5	35
1021	Synthesis, characterization, and photovoltaic properties of acceptorâ€donorâ€acceptor organic small molecules with different terminal electron-withdrawing groups. <i>Journal of Materials Science</i> , 2014, 49, 5279-5288.	3.7	5

#	ARTICLE	IF	CITATIONS
1022	Cesium-doped methylammonium lead iodide perovskite light absorber for hybrid solar cells. <i>Nano Energy</i> , 2014, 7, 80-85.	16.0	459
1023	Interface limited charge extraction and recombination in organic photovoltaics. <i>Energy and Environmental Science</i> , 2014, 7, 2227.	30.8	33
1024	Improving the Stability of Bulk Heterojunction Solar Cells by Incorporating pH-Neutral PEDOT:PSS as the Hole Transport Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5122-5129.	8.0	65
1025	Influence of Molybdenum Oxide Interface Solvent Sensitivity on Charge Trapping in Bilayer Cyanine Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17036-17045.	3.1	19
1026	Synergism of molecular weight, crystallization and morphology of poly(3-butylthiophene) for photovoltaic applications. <i>Organic Electronics</i> , 2014, 15, 414-427.	2.6	7
1027	Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. <i>Journal of Materials Chemistry C</i> , 2014, 2, 416-420.	5.5	37
1028	Brush-painted flexible organic solar cells using highly transparent and flexible Ag nanowire network electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 152-157.	6.2	60
1029	Material solubility effects in bulk heterojunction solar cells based on the bis-cyclopropane fullerene adducts and P3HT. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 30-36.	6.2	21
1030	Horizontally oriented molecular thin films for application in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 123, 81-91.	6.2	13
1031	Efficiency enhancement of polymer solar cells with Ag nanoparticles incorporated into PEDOT:PSS layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 140-145.	2.2	24
1032	High voltage and efficient bilayer heterojunction solar cells based on an organic-inorganic hybrid perovskite absorber with a low-cost flexible substrate. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6033-6040.	2.8	86
1033	Room temperature solution processed tungsten carbide as an efficient hole extraction layer for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3734-3740.	10.3	6
1034	Broadband-absorbing hybrid solar cells with efficiency greater than 3% based on a bulk heterojunction of PbS quantum dots and a low-bandgap polymer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3978.	10.3	52
1035	Conjugated polymers based on benzodithiophene and fluorinated quinoxaline for bulk heterojunction solar cells: thiophene versus thieno[3,2-b]thiophene as $\pi$ -conjugated spacers. <i>Polymer Chemistry</i> , 2014, 5, 2083.	3.9	68
1037	Side Chain Structure Affects the Photovoltaic Performance of Two-Dimensional Conjugated Polymers. <i>Macromolecules</i> , 2014, 47, 70-78.	4.8	84
1038	An efficient organic inverted solar cell with AnE-PVstat:PCBM active layer and V2O5/Al anode layer. <i>Solar Energy</i> , 2014, 99, 88-94.	6.1	18
1039	Computational comparison of conventional and inverted organic photovoltaic performance parameters with varying metal electrode surface workfunction. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 572-583.	6.2	25
1040	Synthesis of a Double-Spanned Resorc[4]arene via Ring-Closing Metathesis and Calculation of Aggregation Propensity. <i>Journal of Organic Chemistry</i> , 2014, 79, 11051-11060.	3.2	7

#	ARTICLE	IF	CITATIONS
1041	N-phenyl[60]fulleropyrrolidines: alternative acceptor materials to PC <sub>61</sub> BM for high performance organic photovoltaic cells. Journal of Materials Chemistry A, 2014, 2, 20889-20895.	10.3	28
1042	Modification of the Gallium-Doped Zinc Oxide Surface with Self-Assembled Monolayers of Phosphonic Acids: A Joint Theoretical and Experimental Study. Advanced Functional Materials, 2014, 24, 3593-3603.	14.9	31
1043	Inverted polymer solar cells with sol-gel derived cesium-doped zinc oxide thin film as a buffer layer. Electronic Materials Letters, 2014, 10, 951-956.	2.2	16
1044	Electronic and electrochemical properties as well as flowerlike supramolecular assemblies of fulleropyrrolidines bearing ester substituents with different alkyl chain lengths. RSC Advances, 2014, 4, 60342-60348.	3.6	22
1045	Effect of metal/bulk-heterojunction interfacial properties on organic photovoltaic device performance. Journal of Materials Chemistry A, 2014, 2, 15288.	10.3	11
1046	Corannulene derivatives as non-fullerene acceptors in solution-processed bulk heterojunction solar cells. Journal of Materials Chemistry A, 2014, 2, 20515-20519.	10.3	69
1047	Structural tuning of quinoxaline-benzodithiophene copolymers via alkyl side chain manipulation: synthesis, characterization and photovoltaic properties. Journal of Materials Chemistry A, 2014, 2, 11162-11170.	10.3	37
1048	A non-fullerene acceptor with all $\pi$ -units realizing high open-circuit voltage solution-processed organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 2657.	10.3	21
1049	Fluorinated low band gap copolymer based on dithienosilole-benzothiadiazole for high-performance photovoltaic device. Polymer Chemistry, 2014, 5, 6279-6286.	3.9	16
1050	Spontaneous interlayer formation in OPVs by additive migration due to additive-metal interactions. Journal of Materials Chemistry A, 2014, 2, 16746-16754.	10.3	25
1051	The Effect of a Substrate on the Current-Voltage Characteristics of Thin-Film Sandwich Structures Based on Buckminsterfullerene. Molecular Crystals and Liquid Crystals, 2014, 589, 154-161.	0.9	3
1052	Large-Scale Flexible and Highly Conductive Carbon Transparent Electrodes via Roll-to-Roll Process and Its High Performance Lab-Scale Indium Tin Oxide-Free Polymer Solar Cells. Chemistry of Materials, 2014, 26, 6293-6302.	6.7	83
1053	Low-Energy Inverse Photoemission Study on the Electron Affinities of Fullerene Derivatives for Organic Photovoltaic Cells. Journal of Physical Chemistry C, 2014, 118, 24377-24382.	3.1	86
1054	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. Nano Energy, 2014, 10, 259-267.	16.0	111
1055	Charge transfer highways in polymer solar cells embedded with imprinted PEDOT:PSS gratings. RSC Advances, 2014, 4, 58342-58348.	3.6	6
1056	High open-circuit voltage polymer/polymer blend solar cells with a polyfluorene copolymer as the electron acceptor. RSC Advances, 2014, 4, 12579.	3.6	20
1057	A hydrophilic monodisperse conjugated starburst macromolecule with multidimensional topology as electron transport/injection layer for organic electronics. Polymer Chemistry, 2014, 5, 2942-2950.	3.9	29
1058	Quinoxaline-functionalized C <sub>60</sub> derivatives as electron acceptors in organic solar cells. RSC Advances, 2014, 4, 25291-25301.	3.6	23

#	ARTICLE	IF	CITATIONS
1059	Organic photovoltaics: key photophysical, device and design aspects. Journal of Modern Optics, 2014, 61, 1703-1713.	1.3	3
1060	Design of terpolymers as electron donors for highly efficient polymer solar cells. Journal of Materials Chemistry A, 2014, 2, 15252.	10.3	155
1061	Enhancement of the power conversion efficiency in a polymer solar cell using a work-function-controlled Ti/SiO <sub>x</sub> interlayer. Journal of Materials Chemistry A, 2014, 2, 2033-2039.	10.3	4
1062	Indole and triisopropyl phenyl as capping units for a diketopyrrolopyrrole (DPP) acceptor central unit: an efficient D-A-D type small molecule for organic solar cells. RSC Advances, 2014, 4, 732-742.	3.6	23
1063	Optimizing the Performance of Conjugated Polymers in Organic Photovoltaic Cells by Traversing Group 16. Macromolecules, 2014, 47, 7253-7271.	4.8	162
1064	Impedance spectroscopy analysis of small molecule solution processed organic solar cell. Solar Energy Materials and Solar Cells, 2014, 128, 351-356.	6.2	52
1065	A flexible blue light sensitive organic photodiode with high properties for the applications in low-voltage control circuit and flexion sensors. Laser and Photonics Reviews, 2014, 8, 316-323.	8.7	22
1066	A star-shaped D-A-A small molecule based on a tris(2-methoxyphenyl)amine core for highly efficient solution-processed organic solar cells. Journal of Materials Chemistry C, 2014, 2, 7614-7620.	5.5	16
1067	Effects of different polar solvents for solvent vapor annealing treatment on the performance of polymer solar cells. Organic Electronics, 2014, 15, 2647-2653.	2.6	78
1068	The Impact of Fullerene Structure on Its Miscibility with P3HT and Its Correlation of Performance in Organic Photovoltaics. Chemistry of Materials, 2014, 26, 3993-4003.	6.7	25
1069	Trap-Assisted Recombination via Integer Charge Transfer States in Organic Bulk Heterojunction Photovoltaics. Advanced Functional Materials, 2014, 24, 6309-6316.	14.9	70
1070	Metal-conducting polymer interface studied by Kelvin probe microscopy: Au and Al on poly(octylthiophene). Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1083-1093.	2.1	2
1071	Compact Bis-Adduct Fullerenes and Additive-Assisted Morphological Optimization for Efficient Organic Photovoltaics. ACS Applied Materials & Interfaces, 2014, 6, 20102-20109.	8.0	9
1072	Imide- and Amide-Functionalized Polymer Semiconductors. Chemical Reviews, 2014, 114, 8943-9021.	47.7	874
1073	Conjugated polymers with benzothiadiazole, benzoxadiazole, and benzotriazole moieties as promising semiconductor materials for organic solar cells. Polymer Science - Series B, 2014, 56, 414-442.	0.8	13
1074	The enhanced efficiency to 3.6% based on organic dye as donor and Si/TiO <sub>2</sub> acceptor bulk hetero-junction solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 292, 1-9.	3.9	18
1075	Structural and Conformational Dispersion in the Rational Design of Conjugated Polymers. Macromolecules, 2014, 47, 987-992.	4.8	42
1076	Germanium- and Silicon-Substituted Donor-Acceptor Type Copolymers: Effect of the Bridging Heteroatom on Molecular Packing and Photovoltaic Device Performance. Advanced Energy Materials, 2014, 4, 1400527.	19.5	46

#	ARTICLE	IF	CITATIONS
1077	n-Type pyromellitic diimide-benzodithiophene-containing conjugated polymers for all-polymer solar cells with high open-circuit voltage. <i>Synthetic Metals</i> , 2014, 196, 110-116.	3.9	1
1078	Multiscale Modelling of Organic and Hybrid Photovoltaics. <i>Topics in Current Chemistry</i> , 2014, , .	4.0	24
1079	Solution-Processed, Molecular Photovoltaics that Exploit Hole Transfer from Non-Fullerene, n-Type Materials. <i>Advanced Materials</i> , 2014, 26, 4313-4319.	21.0	76
1080	Hole extraction layer utilizing well defined graphene oxide with multiple functionalities for high-performance bulk heterojunction solar cells. <i>Organic Electronics</i> , 2014, 15, 2868-2875.	2.6	23
1081	Improved efficiency of bulk heterojunction hybrid solar cells by utilizing CdSe quantum dot-graphene nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12251-12260.	2.8	45
1082	Open-circuit voltage shifted by the bending effect for flexible organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15781-15787.	10.3	3
1083	Electronic structure of fullerene derivatives in organic photovoltaics. <i>Organic Electronics</i> , 2014, 15, 2912-2921.	2.6	33
1084	Location and Number of Selenium Atoms in Two-Dimensional Conjugated Polymers Affect Their Band-Gap Energies and Photovoltaic Performance. <i>Macromolecules</i> , 2014, 47, 7070-7080.	4.8	75
1085	Comprehensive study of medium-bandgap conjugated polymer merging a fluorinated quinoxaline with branched side chains for highly efficient and air-stable polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20203-20212.	10.3	17
1086	Highly efficient inverted polymer solar cells using aqueous ammonia processed ZnO as an electron selective layer. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 993-999.	2.3	1
1087	Thienopyrazine or dithiadiazatrindene containing low band gap conjugated polymers for polymer solar cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 844-853.	3.8	19
1088	A Facile Way for Synthesis of High Performance Electron Receptor MCB: A Promising Replacer of PCBM. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 289-298.	2.1	4
1089	Synthesis and Search for Design Principles of New Electron Accepting Polymers for All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 3450-3459.	6.7	100
1090	Performance enhancement of inverted polymer solar cells with fullerene ester derivant-modified ZnO film as cathode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 36-41.	6.2	30
1091	Effect of Fluorine Content in Thienothiophene-Benzodithiophene Copolymers on the Morphology and Performance of Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 3009-3017.	6.7	136
1092	Silicon nanoparticle size-dependent open circuit voltage in an organic-inorganic hybrid solar cell. <i>Current Applied Physics</i> , 2014, 14, 127-131.	2.4	12
1093	The effect of thiophene substituents of fulleropyrrolidine acceptors on the performance of inverted organic solar cells. <i>Synthetic Metals</i> , 2014, 195, 193-200.	3.9	7
1094	Multi-Charged Conjugated Polyelectrolytes as a Versatile Work Function Modifier for Organic Electronic Devices. <i>Advanced Functional Materials</i> , 2014, 24, 1100-1108.	14.9	170



#	ARTICLE	IF	CITATIONS
1095	Work-function tuneable and aqueous solution-processed Cs <sub>2</sub> CO <sub>3</sub> for high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9400.	10.3	16
1096	Synthesis, optical and electrochemical properties of small molecules DMM-TPA[DTS(FBTTh <sub>3</sub> ) <sub>3</sub> ] and TPA[DTS(FBTTh <sub>3</sub> ) <sub>3</sub> ], and their application as donors for bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12368-12379.	10.3	16
1097	Small molecular non-fullerene electron acceptors for P3HT-based bulk-heterojunction solar cells. <i>Science China Chemistry</i> , 2014, 57, 973-981.	8.2	14
1098	Theoretical Investigation of the Open Circuit Voltage: P3HT/9,9-Bisfluorenylidene Derivative Devices. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4808-4815.	2.5	7
1099	Enhancing the Tunability of the Open-Circuit Voltage of Hybrid Photovoltaics with Mixed Molecular Monolayers. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2317-2324.	8.0	4
1100	Improvement of open-circuit voltage and photovoltaic properties of 2D-conjugated polymers by alkylthio substitution. <i>Energy and Environmental Science</i> , 2014, 7, 2276-2284.	30.8	493
1101	Effects of Cyano-Substituents on the Molecular Packing Structures of Conjugated Polymers for Bulk-Heterojunction Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15774-15782.	8.0	33
1102	Ferroelectric Coupling Effect on the Energy Band Structure of Hybrid Heterojunctions with Self-Organized P(VDF-TrFE) Nanomatrices. <i>Advanced Materials</i> , 2014, 26, 5619-5625.	21.0	30
1103	Tailoring of the plasmonic and waveguide effect in bulk-heterojunction photovoltaic devices with ordered, nanopatterned structures. <i>Organic Electronics</i> , 2014, 15, 3120-3126.	2.6	3
1104	Effects of oligothiophene ï€-bridge length on physical and photovoltaic properties of star-shaped molecules for bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16135-16147.	10.3	38
1105	Highly efficient renewable energy materials benzo[2,3-b]thiophene derivatives: Electronic and charge transfer properties study. <i>Optik</i> , 2014, 125, 4825-4830.	2.9	27
1106	Substituent effect of fulleropyrrolidine acceptors on bilayer organic solar cells. <i>Synthetic Metals</i> , 2014, 187, 118-122.	3.9	3
1107	A preliminary development in hybrid a-silicon/polymer solar cells. <i>Renewable Energy</i> , 2014, 63, 145-152.	8.9	9
1108	Synthesis and photovoltaic properties of novel C <sub>60</sub> bisadducts based on benzo[2,1,3]-thiadiazole. <i>Tetrahedron</i> , 2014, 70, 6217-6221.	1.9	22
1109	Unusual properties of electropolymerized 2,7- and 3,6- carbazole derivatives. <i>Electrochimica Acta</i> , 2014, 128, 430-438.	5.2	50
1110	Efficiency evaluation in solar cell by chemically processed hierarchically stacked debundled pristine carbon nanotubes. <i>Electrochimica Acta</i> , 2014, 130, 406-411.	5.2	1
1111	Bis-adducts of benzocyclopentane- and acenaphthene-C <sub>60</sub> superior to mono-adducts as electron acceptors in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 198-205.	6.2	12
1112	Effect of Varying Thiophene Units on Charge Transport and Photovoltaic Properties of Poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Qv 215, 1473-1484.	2.2	3



#	ARTICLE	IF	CITATIONS
1113	Enhanced photovoltaic conversion efficiency in bulk heterojunction solar cells upon incorporating nanohybridized PbS quantum dots/multiwall carbon nanotubes. EPJ Applied Physics, 2014, 65, 10201.	0.7	8
1114	Derivation of the open-circuit voltage of organic solar cells. Physical Review B, 2014, 89, .	3.2	14
1115	Non-fullerene acceptors for organic photovoltaics: an emerging horizon. Materials Horizons, 2014, 1, 470.	12.2	694
1116	A Star-Shaped Perylene Diimide Electron Acceptor for High-Performance Organic Solar Cells. Advanced Materials, 2014, 26, 5137-5142.	21.0	390
1117	Synthesis, optoelectronic and photovoltaic properties of conjugated alternating copolymers incorporating 2,1,3-benzothiadiazole or fluorenone units: a comparative study. RSC Advances, 2014, 4, 15236-15244.	3.6	4
1118	Effect of the position of substitution on the electronic properties of nitrophenyl derivatives of fulleropyrrolidines: Fundamental understanding toward raising LUMO energy of fullerene electron-acceptor. Chinese Chemical Letters, 2014, 25, 501-504.	9.0	23
1119	Route to enhance the efficiency of organic photovoltaic solar cells - by adding ferroelectric nanoparticles to P3HT/PCBM admixture. EPJ Photovoltaics, 2014, 5, 50403.	1.6	4
1120	Design of Fullerene-Free Electron-Acceptor Materials Containing Perylenediimide Units for Solution-Processed Organic Electronic Devices. Bulletin of the Chemical Society of Japan, 2014, 87, 1083-1093.	3.2	3
1121	Electroabsorption studies of organic p-i-n solar cells: evaluating the built-in voltage. Materials Research Society Symposia Proceedings, 2014, 1639, 1.	0.1	3
1123	Quinoxalineimide as a Novel Electron-accepting Building Block for Organic Optoelectronics. Chemistry Letters, 2015, 44, 1128-1130.	1.3	5
1124	Manganese powder promoted highly efficient and selective synthesis of fullerene mono- and biscycloadducts at room temperature. Scientific Reports, 2015, 5, 13920.	3.3	7
1125	Tuning of the Electronic Properties of Armchair Graphene Nanoribbons through Functionalization: Theoretical Study of $C_{100}H_{12}O_2$ Border Addition. ChemPhysChem, 2015, 16, 3030-3037.	2.1	2
1126	Light-Induced Self-Poling Effect on Organometal Trihalide Perovskite Solar Cells for Increased Device Efficiency and Stability. Advanced Energy Materials, 2015, 5, 1500721.	19.5	214
1127	Spiro Linkage as an Alternative Strategy for Promising Nonfullerene Acceptors in Organic Solar Cells. Advanced Functional Materials, 2015, 25, 5954-5966.	14.9	140
1128	A Flexible GaN Nanowire Array-Based Schottky-Type Visible Light Sensor with Strain-Enhanced Photoresponsivity. Advanced Electronic Materials, 2015, 1, 1500169.	5.1	29
1129	Synthesis and photovoltaic properties of thieno[3,4- <i>b</i> ]pyrazine or dithieno[3,2- <i>b</i> :3',4'- <i>b'</i> ]benzo[1,2- <i>d</i> ]imidazole-containing conjugated polymers. Journal of Polymer Science Part A, 2015, 53, 1067-1075.	2.3	9
1130	High-Performance Organic Solar Cells Based on a Small Molecule with Alkylthio-Thienyl-Conjugated Side Chains without Extra Treatments. Advanced Materials, 2015, 27, 7469-7475.	21.0	186
1131	Supramolecular Approaches to Nanoscale Morphological Control in Organic Solar Cells. International Journal of Molecular Sciences, 2015, 16, 13381-13406.	4.1	26

#	ARTICLE	IF	CITATIONS
1132	Performance Enhancement of Bulk Heterojunction Hybrid Solar Cell Using Macroporous Silicon. Rajshahi University Journal of Science and Engineering, 2015, 43, 11-20.	1.0	1
1133	Assessment of Density-Functional Tight-Binding Ionization Potentials and Electron Affinities of Molecules of Interest for Organic Solar Cells Against First-Principles GW Calculations. Computation, 2015, 3, 616-656.	2.0	19
1134	DFT Study of Polythiophene Energy Band Gap and Substitution Effects. Journal of Chemistry, 2015, 2015, 1-12.	1.9	24
1136	Efficient Inverted Polymer Solar Cells Through Modified Electron Extraction Layer. IEEE Journal of Photovoltaics, 2015, 5, 912-916.	2.5	7
1137	Novel medium band gap conjugated polymers based on naphtho[1,2-c:5,6-c]bis[1,2,3]triazole for polymer solar cells. Polymer, 2015, 67, 40-46.	3.8	22
1138	Tethered Bisadducts of C <sub>60</sub> and C <sub>70</sub> with Addends on a Common Hexagonal Face and a 12-Membered Hole in the Fullerene Cage. Journal of the American Chemical Society, 2015, 137, 7502-7508.	13.7	54
1139	Development of Active Materials and Interface Materials for High Performance Bulk-Heterojunction Polymer Solar Cells. Topics in Applied Physics, 2015, , 191-219.	0.8	1
1140	Chemical Composition of Additives That Spontaneously Form Cathode Interlayers in OPVs. Langmuir, 2015, 31, 6721-6728.	3.5	9
1141	Influence of donor-acceptor materials on the photovoltaic parameters of conjugated polymer/fullerene solar cells. Journal of Materials Science: Materials in Electronics, 2015, 26, 6212-6217.	2.2	5
1142	A quantum chemical study of the factors influencing performance of DTTD: Fullerene heterojunction photovoltaic models. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 310, 9-25.	3.9	2
1143	Effect of PEDOT:PSS/metal electrodes on the performance of heterojunction solar cells. , 2015, , .		1
1144	The performance of selected semi-empirical and DFT methods in studying C <sub>60</sub> fullerene derivatives. Nanotechnology, 2015, 26, 455702.	2.6	23
1145	Examining charge transport networks in organic bulk heterojunction photovoltaic diodes using 1/f noise spectroscopy. Journal of Materials Chemistry C, 2015, 3, 6077-6085.	5.5	4
1146	Principle and application of low energy inverse photoemission spectroscopy: A new method for measuring unoccupied states of organic semiconductors. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 116-124.	1.7	70
1147	Synthesis and Performance of New Organic Dyes and Functional Fullerenes for Organic Solar Cells. ACS Symposium Series, 2015, , 193-236.	0.5	2
1148	Molecular structure-device performance relationship in polymer solar cells based on indene-C60 bis-adduct derivatives. Korean Journal of Chemical Engineering, 2015, 32, 261-267.	2.7	16
1149	N,N-Diarylamino end-capping as a new strategy for simultaneously enhancing open-circuit voltage, short-circuit current density and fill factor in small molecule organic solar cells. RSC Advances, 2015, 5, 20724-20733.	3.6	17
1150	Push-Pull Triphenylamine Chromophore Syntheses and Optoelectronic Characterizations. ChemPlusChem, 2015, 80, 697-703.	2.8	14

#	ARTICLE	IF	CITATIONS
1151	Single-junction polymer solar cells with high efficiency and photovoltage. <i>Nature Photonics</i> , 2015, 9, 174-179.	31.4	1,595
1152	Control of organic–inorganic halide perovskites in solid-state solar cells: a perspective. <i>Science Bulletin</i> , 2015, 60, 405-418.	9.0	39
1153	Single-Junction Polymer Solar Cells with Over 10% Efficiency by a Novel Two-Dimensional Donor–Acceptor Conjugated Copolymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4928-4935.	8.0	256
1154	Phase Diagram of Conjugated Polymer Blend P3HT/PF12TBT and the Morphology-Dependent Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1729-1736.	3.1	19
1155	Solution-processable polymeric solar cells: A review on materials, strategies and cell architectures to overcome 10%. <i>Organic Electronics</i> , 2015, 19, 34-60.	2.6	216
1156	The enhanced performance of fluorinated quinoxaline-containing polymers by replacing carbon with silicon bridging atoms on the dithiophene donor skeleton. <i>Polymer Chemistry</i> , 2015, 6, 2337-2347.	3.9	21
1157	From chloro to fluoro, expanding the role of aluminum phthalocyanine in organic photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5047-5053.	10.3	26
1158	Developments of furan and benzodifuran semiconductors for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6244-6257.	10.3	74
1159	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015, 6, 6391.	12.8	45
1160	Efficient inverted polymer solar cells based on conjugated polyelectrolyte and zinc oxide modified ITO electrode. <i>Applied Physics Letters</i> , 2015, 106, 083302.	3.3	12
1161	Influence of the interface material layers and semiconductor energetic disorder on the open circuit voltage in polymer solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 690-699.	2.1	39
1162	Progress in High-Efficient Solution Process Organic Photovoltaic Devices. <i>Topics in Applied Physics</i> , 2015, , .	0.8	17
1163	Improving the efficiency of inverted polymer solar cells by introducing inorganic dopants. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7960-7965.	2.8	20
1164	Theoretical Modeling of the Optical and Electrical Processes in Polymeric Solar Cells. <i>Topics in Applied Physics</i> , 2015, , 101-142.	0.8	6
1165	A new anodic buffer layer material for non-mixed planar heterojunction chloroboron subphthalocyanine organic photovoltaic achieving 96% internal quantum efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 138-145.	6.2	10
1166	Structure-properties relationships in triarylamine-based donor-acceptor molecules containing naphthyl groups as donor material for organic solar cells. <i>Scientific Reports</i> , 2015, 5, 9031.	3.3	35
1167	Two-Dimensionally Extended $\pi$ -Conjugation of Donor–Acceptor Copolymers via Oligothiophenyl Side Chains for Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2015, 48, 1723-1735.	4.8	69
1168	Decreased domain size and improved crystallinity by adjusting solvent–polymer interaction parameters in all–polymer solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 288-296.	2.1	13

#	ARTICLE	IF	CITATIONS
1169	ADDA and ADADA systems based on triphenylamine as molecular donors for organic photovoltaics. Tetrahedron Letters, 2015, 56, 4607-4612.	1.4	7
1170	Hexacyclic lactam building blocks for highly efficient polymer solar cells. Chemical Communications, 2015, 51, 12122-12125.	4.1	34
1171	Optical Characterization of the Hole Polaron in a Series of Diketopyrrolopyrrole Polymers Used for Organic Photovoltaics. Polymers, 2015, 7, 69-90.	4.5	8
1172	Side chain modification: an effective approach to modulate the energy level of benzodithiophene based polymers for high-performance solar cells. Journal of Materials Chemistry A, 2015, 3, 18115-18126.	10.3	40
1173	Synthesis of statistical carbazole-fluorene-thiophene-benzothiadiazole copolymers and their investigation in organic solar cells. Mendeleev Communications, 2015, 25, 277-279.	1.6	14
1174	Investigation on polymer solar cells by using calcium as an Electron Transportation Layer. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 286-292.	2.6	2
1175	Fullerene-based materials for solar cell applications: design of novel acceptors for efficient polymer solar cells – a DFT study. Physical Chemistry Chemical Physics, 2015, 17, 22367-22376.	2.8	56
1176	Low-temperature solution-processed flexible organic solar cells with PFN/AgNWs cathode. Nano Energy, 2015, 16, 122-129.	16.0	36
1177	Efficient bulk heterojunction photovoltaic devices based on modified PCBM. Nanotechnology Reviews, 2015, 4, .	5.8	4
1178	Effect of chain curvature on the performance of diketopyrrolopyrrole-based polymer solar cells. Polymer Chemistry, 2015, 6, 6637-6643.	3.9	13
1179	Cooperative assembly of an active layer utilizing the synergistic effect of a functional fullerene triad as an acceptor for efficient P3HT-based PSCs. Journal of Materials Chemistry A, 2015, 3, 17991-18000.	10.3	7
1180	Effects of bridging atom and ï€-bridge length on physical and photovoltaic properties of A-ï€-D-ï€-A oligomers for solution-processed organic solar cells. Dyes and Pigments, 2015, 122, 213-223.	3.7	10
1181	Fill factor in organic solar cells can exceed the Shockley-Queisser limit. Scientific Reports, 2015, 5, 11478.	3.3	16
1182	Single crystalline indene-C <sub>60</sub> bisadduct: isolation and application in polymer solar cells. Journal of Materials Chemistry A, 2015, 3, 14991-14995.	10.3	38
1183	Charge transport through thin films made of colloidal CuInS <sub>2</sub> nanocrystals. Materials Research Express, 2015, 2, 066401.	1.6	6
1184	Relation of Polymer Degradation in Air With the Charge Carrier Concentration in PTB1, PTB7, and PCBM Layers Used in High-Efficiency Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 1093-1099.	2.5	9
1185	The improvement in organic photovoltaic response by inserting an interlayer between MoO <sub>3</sub> and mixed layer of C60:5 wt% TAPC. Organic Electronics, 2015, 23, 5-10.	2.6	5
1186	Acceptor-Substituted <i>S</i> , <i>N</i> -Heteropentacenes of Different Conjugation Length: Structure-Property Relationships and Solar Cell Performance. Advanced Functional Materials, 2015, 25, 3414-3424.	14.9	35

#	ARTICLE	IF	CITATIONS
1187	Synthesis and characterization of two new benzothiadiazole- and fused bithiophene based low band-gap copolymers: Application as donor bulk heterojunction polymer solar cells. <i>Polymer</i> , 2015, 65, 193-201.	3.8	16
1188	Cadmium sulfide interface layer for improving the performance of titanium dioxide/poly (3-hexylthiophene) solar cells by extending the spectral response. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3558-3563.	2.2	10
1189	Narrow Bandgap Platinum(II)-Containing Polyyenes with Diketopyrrolopyrrole and Isoindigo Spacers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 159-168.	3.7	16
1190	Insight into external electric field dependent photoinduced intermolecular charge transport in BHJ solar cell materials. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4810-4819.	5.5	60
1191	Space charge region effects in bidirectional illuminated P3HT:PCBM bulk heterojunction photodetectors. <i>Organic Electronics</i> , 2015, 22, 29-34.	2.6	24
1192	Polymer:fullerene solar cells: materials, processing issues, and cell layouts to reach power conversion efficiency over 10%, a review. <i>Journal of Photonics for Energy</i> , 2015, 5, 057214.	1.3	63
1193	Effect of solvent additives and P3HT on PDTSTTz/PCBM-based bulk heterojunction solar cells. <i>Journal of Photonics for Energy</i> , 2015, 5, 057209.	1.3	11
1194	Theoretical design and characterization of pyridalthiadiazole-based chromophores with fast charge transfer at donor/acceptor interface toward small molecule organic photovoltaics. <i>RSC Advances</i> , 2015, 5, 29401-29411.	3.6	46
1195	Ni-Catalyzed direct 1,4-difunctionalization of [60]fullerene with benzyl bromides. <i>Chemical Communications</i> , 2015, 51, 6392-6394.	4.1	42
1197	Fluorinated conjugated polymers in organic bulk heterojunction photovoltaic solar cells. <i>Progress in Polymer Science</i> , 2015, 47, 70-91.	24.7	114
1198	Star-shaped carbazole-based BODIPY derivatives with improved hole transportation and near-infrared absorption for small-molecule organic solar cells with high open-circuit voltages. <i>RSC Advances</i> , 2015, 5, 32283-32289.	3.6	30
1199	Poly(benzodithiophene) Homopolymer for High-Performance Polymer Solar Cells with Open-Circuit Voltage of Near 1 V: A Superior Candidate To Substitute for Poly(3-hexylthiophene) as Wide Bandgap Polymer. <i>Chemistry of Materials</i> , 2015, 27, 2653-2658.	6.7	41
1201	Charge carrier mobility of the organic photovoltaic materials PTB7 and PC71BM and its influence on device performance. <i>Organic Electronics</i> , 2015, 22, 62-68.	2.6	149
1202	Influence of 4-fluorophenyl pendants in thieno[3,4-b]thiophene-benzo[1,2-a:4,5-b <sup>2</sup> ]dithiophene-based polymers on the performance of photovoltaics. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1586-1593.	2.3	3
1203	Molecular electron-acceptors based on benzodithiophene for organic photovoltaics. <i>Tetrahedron Letters</i> , 2015, 56, 2324-2328.	1.4	7
1204	Statistical carbazole-fluorene-TBTBTT terpolymers as promising electron donor materials for organic solar cells. <i>Chemical Communications</i> , 2015, 51, 7562-7564.	4.1	33
1205	Efficiency exceeding 10% for inverted polymer solar cells with a ZnO/ionic liquid combined cathode interfacial layer. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10660-10665.	10.3	169
1206	Detailed investigation of dependencies of photovoltaic performances of P3HT:PC61BM based solar cells on anodic work function modified by surface treatment of indium-tin-oxide electrode with benzenesulfonyl chloride derivatives. <i>Organic Electronics</i> , 2015, 23, 164-170.	2.6	7

#	ARTICLE	IF	CITATIONS
1207	Morphological study of F8BT:PFB thin film blends. <i>Organic Electronics</i> , 2015, 23, 87-98.	2.6	8
1208	DFT predictions of the oxidation potential of organic dyes for opto-electronic devices. <i>Computational and Theoretical Chemistry</i> , 2015, 1070, 68-75.	2.5	11
1209	Linear solubilizing side chain substituents enhance the photovoltaic properties of two-dimensional conjugated benzodithiophene-based polymers. <i>Polymer</i> , 2015, 79, 262-270.	3.8	21
1210	Donor/Acceptor Molecular Orientation-Dependent Photovoltaic Performance in All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25352-25361.	8.0	78
1211	Electro-Surface Properties of Metal Oxides and Hydroxides in Water Solutions. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2015, 72, 220-224.	0.6	8
1212	Enhancing the performance of polymer solar cells by tuning the drying process of blend films via changing side chains and using solvent additives. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9670-9677.	5.5	7
1213	Donor-acceptor conjugated polymers based on cyclic imide substituted quinoxaline or dibenzo[a,c]phenazine for polymer solar cells. <i>Polymer Chemistry</i> , 2015, 6, 7558-7569.	3.9	19
1214	In-situ synthesis of metal nanoparticle-polymer composites and their application as efficient interfacial materials for both polymer and planar heterojunction perovskite solar cells. <i>Organic Electronics</i> , 2015, 27, 46-52.	2.6	23
1215	Overview of high-efficiency organic photovoltaic materials and devices. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1527-1538.	16.4	70
1216	Solution-processed organic light-emitting diodes with enhanced efficiency by using a non-conjugated polymer doped small-molecule hole-blocking layer. <i>RSC Advances</i> , 2015, 5, 98075-98079.	3.6	5
1217	Influence of extraction barrier on the loss process of photogenerated charge carrier in polymer bulk heterojunction solar cells. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 809-813.	2.6	3
1218	Pyrrolidino [60] and [70]fullerene homo- and heterodimers as electron acceptors for OPV. <i>New Journal of Chemistry</i> , 2015, 39, 1477-1482.	2.8	13
1219	Unraveling the Morphology of High Efficiency Polymer Solar Cells Based on the Donor Polymer PBDTTT-CFET. <i>Advanced Energy Materials</i> , 2015, 5, 1401259.	19.5	100
1220	Efficient polymer solar cells based on a new benzo[1,2-b:4,5-b']dithiophene derivative with fluorinated alkoxyphenyl side chain. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3130-3135.	10.3	44
1221	Solution-Processed pH-Neutral Conjugated Polyelectrolyte Improves Interfacial Contact in Organic Solar Cells. <i>ACS Nano</i> , 2015, 9, 371-377.	14.6	73
1222	Doped-carbazolocarbazoles as hole transporting materials in small molecule solar cells with different architectures. <i>Organic Electronics</i> , 2015, 17, 28-32.	2.6	6
1223	High open-circuit voltage small-molecule p-DTS(FBTTh <sub>2</sub> ):ICBA bulk heterojunction solar cells - morphology, excited-state dynamics, and photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1530-1539.	10.3	35
1224	Effect of open-circuit voltage in organic solar cells based on various electron donor materials by inserting molybdenum trioxide anode buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2015, 133, 248-254.	6.2	17



#	ARTICLE	IF	CITATIONS
1225	Nanoscale mapping by electron energy-loss spectroscopy reveals evolution of organic solar cell contact selectivity. <i>Organic Electronics</i> , 2015, 16, 227-233.	2.6	25
1226	Synthesis of four-armed triphenylamine-based molecules and their applications in organic solar cells. <i>New Journal of Chemistry</i> , 2015, 39, 994-1000.	2.8	9
1227	Improved lifetimes of organic solar cells with solution-processed molybdenum oxide anode-modifying layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 989-996.	8.1	22
1228	A bridged low band gap Aa€“Da€“A quaterthiophene as efficient donor for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 390-398.	5.5	13
1229	Highly stable inverted organic photovoltaics using aluminum-doped zinc oxide as electron transport layers. <i>Journal of Power Sources</i> , 2015, 275, 274-278.	7.8	20
1230	A high efficiency solution processed polymer inverted triple-junction solar cell exhibiting a power conversion efficiency of 11.83%. <i>Energy and Environmental Science</i> , 2015, 8, 303-316.	30.8	351
1231	Contact-Induced Mechanisms in Organic Photovoltaics: A Steady-State and Transient Study. <i>Advanced Energy Materials</i> , 2015, 5, 1400549.	19.5	16
1232	The Scope and Limitations of Ternary Blend Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2015, 5, 1400891.	19.5	116
1233	High performance polymer solar cells with as-prepared zirconium acetylacetonate film as cathode buffer layer. <i>Scientific Reports</i> , 2014, 4, 4691.	3.3	165
1234	Effect of Volcano-Polluted Seawater on the Corrosion Behaviour of Different Alloys. , 2016, , .		0
1236	Synthesis and Microstructural Characterization of SnO <sub>2</sub> :F Thin Films Deposited by AACVD. <i>Materials Research</i> , 2016, 19, 97-102.	1.3	17
1237	The Effect of Structural Properties of Cu <sub>2</sub> Se/Polyvinylcarbazole Nanocomposites on the Performance of Hybrid Solar Cells. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	2.7	8
1238	Investigation of Various Active Layers for Their Performance on Organic Solar Cells. <i>Materials</i> , 2016, 9, 667.	2.9	13
1239	Synthesis and characterization of benzodithiophene and benzotriazole-based polymers for photovoltaic applications. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1629-1637.	2.2	18
1240	Recent Advances in Organic Photovoltaics: Device Structure and Optical Engineering Optimization on the Nanoscale. <i>Small</i> , 2016, 12, 1547-1571.	10.0	77
1241	Hexaazatrinaphthylene Derivatives: Efficient Electron-Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2016, 128, 9145-9149.	2.0	19
1242	An arylene-vinylene based donor-acceptor-donor small molecule for the donor compound in high-voltage organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 348-355.	6.2	14
1243	Solubilized 5,6-bis(octyloxy)benzoxadiazole as a versatile acceptor block for designing novel (-X-DADAD-)n and (-X-DADADAD-)n electron donor copolymers for bulk heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 378-386.	6.2	5



#	ARTICLE	IF	CITATIONS
1244	Bulkâ€Heterojunction Organic Solar Cells: Five Core Technologies for Their Commercialization. Advanced Materials, 2016, 28, 7821-7861.	21.0	404
1245	Regioisomer-specific electron affinities and electronic structures of C70para-adducts at polar and equatorial positions with (bromo)benzyl radicals: photoelectron spectroscopy and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 18683-18686.	2.8	1
1246	Hexaazatrinaphthylene Derivatives: Efficient Electronâ€Transporting Materials with Tunable Energy Levels for Inverted Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 8999-9003.	13.8	118
1247	Amideâ€Functionalized Small Molecules as Solutionâ€Processed Electron Injection Layers in Highly Efficient Polymer Lightâ€Emitting Diodes. Advanced Materials Interfaces, 2016, 3, 1500621.	3.7	5
1248	Exploring the Limiting Openâ€Circuit Voltage and the Voltage Loss Mechanism in Planar CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600132.	19.5	71

1249

#	ARTICLE	IF	CITATIONS
1262	Conjugated donor-acceptor terpolymers entailing the Pechmann dye and dithienyl-diketopyrrolopyrrole as co-electron acceptors: tuning HOMO/LUMO energies and photovoltaic performances. <i>Polymer Chemistry</i> , 2016, 7, 3838-3847.	3.9	14
1263	Tailoring of Electron-Collecting Oxide Nanoparticulate Layer for Flexible Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1845-1851.	4.6	93
1264	Enhancement of Photovoltaic Performance by Utilizing Readily Accessible Hole Transporting Layer of Vanadium(V) Oxide Hydrate in a Polymer-Fullerene Blend Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11658-11666.	8.0	37
1265	A simple structured and efficient triazine-based molecule as an interfacial layer for high performance organic electronics. <i>Energy and Environmental Science</i> , 2016, 9, 2595-2602.	30.8	45
1266	Characterising the morphology and efficiency of polymer solar cell by experiments and simulations. <i>Molecular Simulation</i> , 2016, 42, 836-845.	2.0	9
1267	Side-Chain Fluorination: An Effective Approach to Achieving High-Performance All-Polymer Solar Cells with Efficiency Exceeding 7%. <i>Advanced Materials</i> , 2016, 28, 10016-10023.	21.0	108
1268	Regioselective preparation of a bis-pyrazolinofullerene by a macrocyclization reaction. <i>Chemical Communications</i> , 2016, 52, 13205-13208.	4.1	1
1269	Ab-initio modeling of an anion C-60 pseudopotential for fullerene-based compounds. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	5
1270	Interfacial electronic structure for high performance organic devices. <i>Current Applied Physics</i> , 2016, 16, 1533-1549.	2.4	31
1271	High performance A-D-A oligothiophene-based organic solar cells employing two-step annealing and solution-processable copper thiocyanate (CuSCN) as an interfacial hole transporting layer. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17344-17353.	10.3	21
1272	Highly efficient and thermally stable fullerene-free organic solar cells based on a small molecule donor and acceptor. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16335-16340.	10.3	88
1273	Controlled growth of ZnPc nanostructures via heat assisted solvent vapour treatment method and application in photovoltaic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10701-10706.	2.2	1
1274	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.	16.0	48
1275	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.	6.2	3
1276	Organic Field-Effect Transistors. , 2016, , 171-222.		0
1277	High-Performance Polymer Solar Cells Based on a Wide-Bandgap Polymer Containing Pyrrolo[3,4-f]benzotriazole-5,7-dione with a Power Conversion Efficiency of 8.63%. <i>Advanced Science</i> , 2016, 3, 1600032.	11.2	69
1278	Synthesis of Thieno[3,4-b]thiophene-Based Donor Molecules with Phenyl Ester Pendants for Organic Solar Cells: Control of Photovoltaic Properties via Single Substituent Replacement. <i>ChemistrySelect</i> , 2016, 1, 703-709.	1.5	9
1279	Measurement of optical properties in organic photovoltaic materials using monochromated electron energy-loss spectroscopy. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13636-13645.	10.3	15

#	ARTICLE	IF	CITATIONS
1280	Efficiency improvement using bis(trifluoromethane) sulfonamide lithium salt as a chemical additive in porphyrin based organic solar cells. <i>Nanoscale</i> , 2016, 8, 17953-17962.	5.6	23
1281	Alkylated [6,6]-open difluoromethanofullerenes C <sub>60</sub> (CF <sub>2</sub> ) <sub>2</sub> : Facile synthesis, electrochemical behavior and photovoltaic applications. <i>Electrochimica Acta</i> , 2016, 219, 130-142.	5.2	14
1282	Degradation by ultra-violet light and its mechanism in organic solar cells. <i>Organic Electronics</i> , 2016, 37, 386-395.	2.6	9
1283	Manipulation of the electronic and photovoltaic properties of materials based on small push-pull molecules by substitution of the arylamine donor block by aliphatic groups. <i>Organic Electronics</i> , 2016, 37, 294-304.	2.6	8
1284	Unsubstituted Benzodithiophene-Based Conjugated Polymers for High-Performance Organic Field-Effect Transistors and Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19665-19671.	8.0	35
1285	Efficient ternary organic photovoltaic cells with better trade-off photon harvesting and phase separation by doping DIB-SQ. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7809-7816.	5.5	12
1286	Generation of open-ended, worm-like and graphene-like structures from layered spherical carbon materials. <i>RSC Advances</i> , 2016, 6, 20399-20408.	3.6	8
1288	The origin of high PCE in PTB7 based photovoltaics: proper charge neutrality level and free energy of charge separation at PTB7/PC71BM interface. <i>Scientific Reports</i> , 2016, 6, 35262.	3.3	45
1289	Conjugated Polymer Zwitterions: Efficient Interlayer Materials in Organic Electronics. <i>Accounts of Chemical Research</i> , 2016, 49, 2478-2488.	15.6	109
1290	Design, synthesis and photovoltaic properties of a series of new acceptor-pended conjugated polymers. <i>Science China Chemistry</i> , 2016, 59, 1583-1592.	8.2	11
1291	DFT and TD-DFT calculation of new thienopyrazine-based small molecules for organic solar cells. <i>Chemistry Central Journal</i> , 2016, 10, 67.	2.6	97
1292	Manipulating the photovoltaic properties of small-molecule donor materials by tailoring end-capped alkylthio substitution. <i>RSC Advances</i> , 2016, 6, 108908-108916.	3.6	7
1293	Organic Solar Cells. , 2016, , 73-136.		1
1294	Device Physics and Modeling. , 2016, , 137-204.		0
1295	How to Prevent Degradation in Organic Solar Cells. , 2016, , 243-267.		0
1296	Photovoltaic application of architecture ITO/graphene oxide/polyaniline/aluminum. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9828-9835.	2.2	3
1297	Bulk heterojunction organic photovoltaics from water-processable nanomaterials and their facile fabrication approaches. <i>Advances in Colloid and Interface Science</i> , 2016, 235, 56-69.	14.7	21
1298	Dithieno[3,2-b:2',3'-d]pyridin-5(4H)-one based D-A type copolymers with wide bandgaps of up to 2.05 eV to achieve solar cell efficiencies of up to 7.33%. <i>Chemical Science</i> , 2016, 7, 6167-6175.	7.4	43

#	ARTICLE	IF	CITATIONS
1299	Synthesis and characterization of 2,2'-bithiophene end-capped dihexyloxy phenylene pentamer and its application in a solution-processed organic ultraviolet photodetector. RSC Advances, 2016, 6, 61848-61859.	3.6	8
1300	Morphological characterization of a new low-bandgap thermocleavable polymer showing stable photovoltaic properties. Journal of Materials Chemistry A, 2016, 4, 10650-10658.	10.3	8
1301	p-n interface stabilization of planar heterojunction organic photovoltaics by an ethyleneoxy side chain of methanofullerenes. Synthetic Metals, 2016, 215, 223-228.	3.9	2
1302	Nanopatterned bulk-heterojunction photovoltaic cells using polyurethane acrylate (PUA) film replica of colloidal crystal arrays via stamping transfer process. Macromolecular Research, 2016, 24, 483-487.	2.4	1
1303	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. Journal of Materials Chemistry C, 2016, 4, 6280-6286.	5.5	18
1304	Spontaneous generation of interlayers in OPVs with silver cathodes: enhancing Voc and lifetime. Journal of Materials Chemistry C, 2016, 4, 1821-1828.	5.5	22
1305	V OC enhancement in polymer solar cells with isobenzofulvene-C 60 adducts. Organic Electronics, 2016, 31, 48-55.	2.6	9
1306	Preparation and employment of carbon nanodots to improve electron extraction capacity of polyethylenimine interfacial layer for polymer solar cells. Organic Electronics, 2016, 33, 62-70.	2.6	13
1307	EPR spectroscopy of polymer. , 2016, , 202-275.		9
1308	Energy-Level Alignment at the Organic/Electrode Interface in Organic Optoelectronic Devices. Advanced Functional Materials, 2016, 26, 129-136.	14.9	60
1309	Dependence on material choice of degradation of organic solar cells following exposure to humid air. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 216-224.	2.1	27
1310	Terpolymer approach for controlling the crystalline behavior of naphthalene diimide-based polymer acceptors and enhancing the performance of all-polymer solar cells. Polymer Journal, 2016, 48, 517-524.	2.7	25
1311	Emerging trends in eco-compliant, synergistic, and hybrid assembling of multifunctional polymeric bionanocomposites. Reviews in Chemical Engineering, 2016, .	4.4	10
1312	Graphene-based acceptor molecules for organic photovoltaic cells: a predictive study identifying high modularity and morphological stability. RSC Advances, 2016, 6, 13653-13656.	3.6	6
1313	Toward high open-circuit voltage by smart chain engineering in 2D-conjugated polymer for polymer solar cells. Solar Energy Materials and Solar Cells, 2016, 149, 162-169.	6.2	11
1314	Donor-Acceptor Random versus Alternating Copolymers for Efficient Polymer Solar Cells: Importance of Optimal Composition in Random Copolymers. Macromolecules, 2016, 49, 2096-2105.	4.8	40
1315	Development of strongly absorbing S,N-heterohexacene-based donor materials for efficient vacuum-processed organic solar cells. Journal of Materials Chemistry C, 2016, 4, 3715-3725.	5.5	26
1316	Feasible energy level tuning in polymer solar cells based on broad band-gap polytriphenylamine derivatives. New Journal of Chemistry, 2016, 40, 402-412.	2.8	6

#	ARTICLE	IF	CITATIONS
1317	An alternating copolymer of fluorene donor and quinoxaline acceptor versus a terpolymer consisting of fluorene, quinoxaline and benzothiadiazole building units: synthesis and characterization. Polymer Bulletin, 2016, 73, 1167-1183.	3.3	8
1318	Amazing stable open-circuit voltage in perovskite solar cells using AgAl alloy electrode. Solar Energy Materials and Solar Cells, 2016, 146, 35-43.	6.2	76
1319	Induced photodegradation of quinoxaline based copolymers for photovoltaic applications. Solar Energy Materials and Solar Cells, 2016, 144, 150-158.	6.2	25
1320	Open circuit voltage of organic solar cells: an in-depth review. Energy and Environmental Science, 2016, 9, 391-410.	30.8	644
1321	Dialkylthio Substitution: An Effective Method to Modulate the Molecular Energy Levels of 2D-BDT Photovoltaic Polymers. ACS Applied Materials & Interfaces, 2016, 8, 3575-3583.	8.0	43
1322	Semiconductor Materials for Solar Photovoltaic Cells. Springer Series in Materials Science, 2016, , .	0.6	29
1323	Environmental Stability of Organic Semiconductors for Use in Optoelectronic Devices. , 2016, , 73-81.		3
1324	Nanophase Engineering of Organic Semiconductor-Based Solar Cells. Springer Series in Materials Science, 2016, , 197-228.	0.6	3
1325	The role of polymer dots on efficiency enhancement of organic solar cells: Improving charge transport property. Optics Communications, 2017, 395, 127-132.	2.1	6
1326	Spirobifluorene based small push-pull molecules for organic photovoltaic applications. Dyes and Pigments, 2017, 140, 62-69.	3.7	2
1327	Linear-scaling density functional simulations of the effect of crystallographic structure on the electronic and optical properties of fullerene solvates. Physical Chemistry Chemical Physics, 2017, 19, 5617-5628.	2.8	13
1328	Coupled Cluster Studies of Ionization Potentials and Electron Affinities of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry A, 2017, 121, 1328-1335.	2.5	9
1329	Effect of side chains on phenanthrene based D-A type copolymers for polymer solar cells. Organic Electronics, 2017, 44, 238-246.	2.6	13
1330	Theoretical Design of Perylene Diimide Dimers with Different Linkers and Bridged Positions as Promising Non-Fullerene Acceptors for Organic Photovoltaic Cells. Journal of Physical Chemistry C, 2017, 121, 2125-2134.	3.1	50
1331	Chemical Modification of Semiconductor Surfaces for Molecular Electronics. Chemical Reviews, 2017, 117, 4624-4666.	47.7	181
1332	Bithiazole: An Intriguing Electron-Deficient Building for Plastic Electronic Applications. Macromolecular Rapid Communications, 2017, 38, 1600610.	3.9	27
1333	Thermal-assisted band to band tunneling at the electron donor/acceptor energy harvesting assembly. Thin Solid Films, 2017, 625, 81-86.	1.8	2
1334	Oligo- and poly(fullerene)s for photovoltaic applications: Modeled electronic behaviors and synthesis. Journal of Polymer Science Part A, 2017, 55, 1345-1355.	2.3	12

#	ARTICLE	IF	CITATIONS
1335	Synthesis and side-chain engineering of phenylnaphthalenediimide (PNDI)-based n-type polymers for efficient all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5449-5459.	10.3	29
1336	Elucidation of hierarchical metallophthalocyanine buffer layers in bulk heterojunction solar cells. <i>RSC Advances</i> , 2017, 7, 11304-11311.	3.6	5
1337	Organic solar cells: Study of combined effects of active layer nanostructure and electron and hole transport layers. <i>Thin Solid Films</i> , 2017, 636, 760-764.	1.8	14
1338	Ionic behavior of organic-inorganic metal halide perovskite based metal-oxide-semiconductor capacitors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13002-13009.	2.8	9
1339	Molecular design of porphyrin dyes for dye sensitized solar cells: A quantitative structure property relationship study. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25385.	2.0	9
1340	Effect of vacuum treatment in diketopyrrolopyrrole (DPP) based copolymer with ratio controlled toluene- and benzene- functional groups for efficient organic photovoltaic cells: Morphological and electrical contribution. <i>Organic Electronics</i> , 2017, 46, 183-191.	2.6	6
1341	Synthesis and characterization of a wide bandgap polymer based on a weak donor-weak acceptor structure for dual applications in organic solar cells and organic photodetectors. <i>Organic Electronics</i> , 2017, 46, 173-182.	2.6	18
1342	The effect of the fluorine loading on the optoelectronic and photovoltaic properties of (X <sub>n</sub> ) <sup>n+</sup> donor-acceptor copolymers with the benzothiadiazole A units. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700087.	2.4	15
1343	Molecular design of interfacial layers based on conjugated polythiophenes for polymer and hybrid solar cells. <i>Polymer International</i> , 2017, 66, 1333-1348.	3.1	18
1344	Properties of electronically excited states of four squaraine dyes and their complexes with fullerene C <sub>70</sub> : A theoretical investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 82-88.	3.9	4
1345	Optimization of the structural configuration of ICBA/P3HT photovoltaic cells. <i>Applied Surface Science</i> , 2017, 424, 264-268.	6.1	6
1347	Improved hydrogenated amorphous silicon thin-film solar cells realized by replacing n-type Si layer with PFN interfacial layer. <i>Synthetic Metals</i> , 2017, 228, 91-98.	3.9	7
1348	Efficiency improvement of polymer solar cells with random micro-nanostructured back electrode formed by active layer self-aggregation. <i>Organic Electronics</i> , 2017, 41, 362-368.	2.6	8
1349	Electron Transport Layer-Free Inverted Organic Solar Cells Fabricated with Highly Transparent Low-Resistance Indium Gallium Zinc Oxide/Ag/Indium Gallium Zinc Oxide Multilayer Electrode. <i>Journal of Electronic Materials</i> , 2017, 46, 2140-2146.	2.2	4
1350	Inexpensive organic dyes-sensitized zinc oxide nanoparticles photoanode for solar cells devices. <i>Journal of Photonics for Energy</i> , 2017, 7, 025504.	1.3	11
1351	Thieno[3,4-c]pyrrole-4,6(5H)-dione Polymers with Optimized Energy Level Alignments for Fused-Ring Electron Acceptor Based Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 5636-5645.	6.7	43
1352	Chlorinated 2,1,3-Benzothiadiazole-Based Polymers for Organic Field-Effect Transistors. <i>Macromolecules</i> , 2017, 50, 4649-4657.	4.8	33
1353	Interface engineering on phenanthrocarbazole/thienopyrroledione-based conjugated polymer for efficient organic photovoltaic devices with ideal nano-morphology and improved charge carrier dynamics. <i>Dyes and Pigments</i> , 2017, 145, 29-36.	3.7	4



#	ARTICLE	IF	CITATIONS
1354	Dipole formation at organic/metal interfaces with pre-deposited and post-deposited metal. NPG Asia Materials, 2017, 9, e379-e379.	7.9	22
1355	3-Hexyl-2,5-diphenylthiophene:phenylene vinylene-based conjugated polymer for solar cells application. Dyes and Pigments, 2017, 144, 218-222.	3.7	4
1356	Small molecular PDI-functionalized 9,9-bifluorenylidene acceptors for bulk heterojunction organic solar cells. New Journal of Chemistry, 2017, 41, 6822-6827.	2.8	13
1357	Effect of Alkyl Side Chains on the Photovoltaic Performance of 2,1,3-Benzoxadiazole-Based (PBDAD) Type Copolymers. Macromolecular Chemistry and Physics, 2017, 218, 1700055.	2.2	5
1358	Effect of TiO <sub>2</sub> modification with amino-based self-assembled monolayer on inverted organic solar cell. Applied Surface Science, 2017, 422, 1129-1138.	6.1	31
1359	Organic photovoltaic cells using MWCNTs. New Carbon Materials, 2017, 32, 27-34.	6.1	14
1360	Endohedral fullerenes: Synthesis, isolation, mono- and bis-functionalization. Inorganica Chimica Acta, 2017, 468, 16-27.	2.4	37
1361	Broadband EQE enhancement in organic solar cells with multiple-shaped silver nanoparticles: Optical coupling and interfacial engineering. Materials Today Energy, 2017, 3, 84-91.	4.7	19
1362	High-resolution monochromated electron energy-loss spectroscopy of organic photovoltaic materials. Ultramicroscopy, 2017, 180, 125-132.	1.9	8
1363	Energy Harvesting: Breakthrough Technologies Through Polymer Composites. Springer Series on Polymer and Composite Materials, 2017, , 1-42.	0.7	1
1364	Effect of fluorination on n-type conjugated polymers for all-polymer solar cells. RSC Advances, 2017, 7, 17076-17084.	3.6	20
1365	Progress in Understanding Degradation Mechanisms and Improving Stability in Organic Photovoltaics. Advanced Materials, 2017, 29, 1603940.	21.0	319
1366	Poly[(9,9-dioctylfluorene)-2,7-diyl-alt-(4,7-bis(3-hexylthien-5-yl)-2,1,3-benzothiadiazole)-2,2',2,2'-diyl]:PCBM thin films: Molecular self-assembly, hexyl substituent groups and sheet resistance relationships. Synthetic Metals, 2017, 224, 7-17.	3.9	3
1367	Simulating charge transport in organic semiconductors and devices: a review. Reports on Progress in Physics, 2017, 80, 026502.	20.1	56
1368	Improving the Compatibility of Donor Polymers in Efficient Ternary Organic Solar Cells via Post-Additive Soaking Treatment. ACS Applied Materials & Interfaces, 2017, 9, 618-627.	8.0	51
1369	Head-to-Head Linkage Containing Dialkoxybithiophene-Based Polymeric Semiconductors for Polymer Solar Cells with Large Open-Circuit Voltages. Macromolecules, 2017, 50, 137-150.	4.8	37
1370	Purification and electronic characterisation of 18 isomers of the OPV acceptor material bis-[60]PCBM. Chemical Communications, 2017, 53, 975-978.	4.1	21
1371	The recent development of carbazole-, benzothiadiazole-, and isoindigo-based copolymers for solar cells application: A review. Polymer Science - Series B, 2017, 59, 479-496.	0.8	19

#	ARTICLE	IF	CITATIONS
1372	Charge transport properties of bulk-heterojunction organic solar cells investigated by displacement current measurement technique. <i>Organic Electronics</i> , 2017, 51, 269-276.	2.6	1
1373	The electro-optic performance and photovoltaic effect of organic devices based on cesium carbonate/Al/molybdenum trioxide intermediate connector. <i>Organic Electronics</i> , 2017, 51, 452-457.	2.6	5
1374	Structure-property relationship of A type copolymers based on phenanthrene and naphthalene units for organic electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10332-10342.	5.5	4
1375	Porphyrins and BODIPY as Building Blocks for Efficient Donor Materials in Bulk Heterojunction Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700127.	5.8	62
1376	Molecular Electronics. <i>Springer Handbooks</i> , 2017, , 1-1.	0.6	1
1377	Junction diodes in organic solar cells. <i>Nano Energy</i> , 2017, 41, 717-730.	16.0	20
1378	Exploring Alkyl Chains in Benzobisthiazole-Naphthobisthiadiazole Polymers: Impact on Solar-Cell Performance, Crystalline Structures, and Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37702-37711.	8.0	25
1379	Molecular design of novel fullerene-based acceptors for enhancing the open circuit voltage in polymer solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 410-418.	4.0	4
1380	Control of indium tin oxide anode work function modified using Langmuir-Blodgett monolayer for high-efficiency organic photovoltaics. <i>AIP Advances</i> , 2017, 7, 085321.	1.3	5
1381	Intermixing Effect on Electronic Structures of TQ1:PC <sub>71</sub> BM Bulk Heterojunction in Organic Photovoltaics. <i>Solar Rrl</i> , 2017, 1, 1700142.	5.8	7
1382	Acceptor-rich bulk heterojunction polymer solar cells with balanced charge mobilities. <i>Organic Electronics</i> , 2017, 51, 16-24.	2.6	12
1383	A theoretical investigation of the structural, electronic and UV-vis absorption spectra of fullerene derivatives based on PC61B-NHCS compound. <i>Materials Chemistry and Physics</i> , 2017, 199, 597-608.	4.0	1
1384	Theoretical study of the design dye-sensitivity for usage in the solar cell device. <i>Results in Physics</i> , 2017, 7, 4359-4363.	4.1	15
1385	Measurement of contact surface photo-voltage from forward bias C-V characteristics of P3HT:PCBM based BHJ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 25-33.	6.2	12
1386	Inverted Organic Solar Cells Fabricated with Room-Temperature-deposited Transparent Multilayer Electrodes. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 856-860.	1.9	1
1387	Thin-film photovoltaic devices incorporating low-bandgap push-pull molecules dispersed in passive polymeric matrices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1479-1493.	2.1	2
1388	Recent Development of Quinoxaline Based Polymers/Small Molecules for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2017, 7, 1700575.	19.5	115
1389	Exploring the charge transfer nature and electro-optical properties of anthracene based sensitizers @TiO <sub>2</sub> cluster. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 239-246.	5.3	16

#	ARTICLE	IF	CITATIONS
1390	Efficient and Hysteresis-Free Perovskite Solar Cells Based on a Solution Processable Polar Fullerene Electron Transport Layer. <i>Advanced Energy Materials</i> , 2017, 7, 1701144.	19.5	114
1391	Aqueous-solution-processable metal oxides for high-performance organic and perovskite solar cells. <i>Nanoscale</i> , 2017, 9, 13506-13514.	5.6	32
1392	A solution-processed near-infrared polymer: PbS quantum dot photodetectors. <i>RSC Advances</i> , 2017, 7, 34633-34637.	3.6	17
1393	Corrosion resistance and thermal behavior of acetylacetonato-oxoperoxomolybdenum(VI) complex of maltol: Experimental and DFT studies. <i>Karala International Journal of Modern Science</i> , 2017, 3, 212-223.	1.0	26
1394	Synthesis and photovoltaic properties of new ruthenium(II)-bis(aryleneethynylene) complexes. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 277-286.	1.8	7
1395	First-principles design of nanostructured hybrid photovoltaics based on layered transition metal phosphates. <i>Scientific Reports</i> , 2017, 7, 1248.	3.3	1
1396	Fine Tuning of Open-Circuit Voltage by Chlorination in Thieno[3,4- <i>b</i> ]thiophene-Benzodithiophene Terpolymers toward Enhanced Solar Energy Conversion. <i>Macromolecules</i> , 2017, 50, 4962-4971.	4.8	55
1397	Synthesis of the (X-DADAD) -type conjugated polymers with 2,1,3-benzoxadiazole acceptor blocks and their application in organic solar cells. <i>Tetrahedron Letters</i> , 2017, 58, 97-100.	1.4	19
1398	Optimization of Organic Photovoltaic Cells. , 2017, , 55-68.		1
1399	Highly crystalline low-bandgap polymer nanowires towards high-performance thick-film organic solar cells exceeding 10% power conversion efficiency. <i>Energy and Environmental Science</i> , 2017, 10, 247-257.	30.8	131
1400	A new quinoxaline and isoindigo based polymer as donor material for solar cells: Role of ecofriendly processing solvents on the device efficiency and stability. <i>Journal of Polymer Science Part A</i> , 2017, 55, 234-242.	2.3	18
1401	Trap-induced charge transfer/transport at energy harvesting assembly. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 045501.	2.8	1
1402	Efficient inverted flexible polymer solar cells with transparent top MoO <sub>3</sub> /Au/Ag/NPB electrodes. <i>Optical Materials Express</i> , 2017, 7, 2188.	3.0	5
1403	Energy Harvesting Based on Polymer. , 2017, , 151-196.		9
1404	Study of the Contributions of Donor and Acceptor Photoexcitations to Open Circuit Voltage in Bulk Heterojunction Organic Solar Cells. <i>Electronics (Switzerland)</i> , 2017, 6, 75.	3.1	14
1405	Bulk Heterojunction Organic Solar Cell Area-Dependent Parameter Fluctuation. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-10.	2.5	15
1406	Exploring the Photovoltaic Properties of Metal Bipyridine Complexes (Metal = Fe, Zn, Cr, and Ru) by Density Functional Theory. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018, 73, 337-344.	1.5	12
1407	Laminated Carbon Nanotubes for the Facile Fabrication of Cost-Effective Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 1226-1232.	5.1	7

#	ARTICLE	IF	CITATIONS
1408	DFT results against experimental data for electronic properties of C60 and C70 fullerene derivatives. Journal of Molecular Graphics and Modelling, 2018, 81, 60-67.	2.4	23
1409	Structural Identification of 19 Purified Isomers of the OPV Acceptor Material bisPCBM by <sup>13</sup> C NMR and UV-Vis Absorption Spectroscopy and High-Performance Liquid Chromatography. Journal of Physical Chemistry A, 2018, 122, 4138-4152.	2.5	13
1410	Photodynamics in Metal-Chelating Tetraphenylazadipyrromethene Complexes: Implications for Their Potential Use as Photovoltaic Materials. Journal of Physical Chemistry C, 2018, 122, 13579-13589.	3.1	3
1411	Solution processed alkali-metal and alkaline-earth-metal compounds as the efficient electron injection layer in organic light-emitting diodes. Synthetic Metals, 2018, 236, 31-35.	3.9	5
1412	Dynamic Photoelectrochemical Device Using an Electrolyte-Permeable NiO <sub>x</sub> /SiO <sub>2</sub> /Si Photocathode with an Open-Circuit Potential of 0.75 V. ACS Applied Materials & Interfaces, 2018, 10, 7955-7962.	8.0	30
1413	Benzothiadiazole-oligothiophene flanked dicyanomethylenated quinacridone for non-fullerene acceptors in polymer solar cells. New Journal of Chemistry, 2018, 42, 5005-5013.	2.8	7
1414	Design of asymmetric benzodithiophene based wide band-gap conjugated polymers toward efficient polymer solar cells promoted by a low boiling point additive. Journal of Materials Chemistry C, 2018, 6, 2806-2813.	5.5	17
1415	Development of fullerenes and their derivatives as semiconductors in field-effect transistors: exploring the molecular design. Journal of Materials Chemistry C, 2018, 6, 3514-3537.	5.5	31
1416	Designing of Efficient Acceptors for Organic Solar Cells: Molecular Modelling at DFT Level. Journal of Cluster Science, 2018, 29, 359-365.	3.3	46
1417	Cross-conjugated n-type polymer acceptors for efficient all-polymer solar cells. Chemical Communications, 2018, 54, 2204-2207.	4.1	18
1418	VTP as an Active Layer in a Vertical Organic Field Effect Transistor. Journal of Electronic Materials, 2018, 47, 2184-2191.	2.2	10
1419	Reinforcing the Built-in Field for Efficient Charge Collection in Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1705079.	14.9	23
1420	Isatylidene malononitrile derived acceptors for fullerene free organic solar cells. Dyes and Pigments, 2018, 151, 102-109.	3.7	14
1421	Solvent effects on the morphology and electrical conductivity of a DAA random copolymer with low band gap. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1035-1044.	2.1	1
1422	A trifluoromethyl substituted wide bandgap conjugated polymer for non-fullerene polymer solar cells with 10.4% efficiency. Journal of Materials Chemistry A, 2018, 6, 6551-6558.	10.3	22
1423	Hybrid Solar Cells: Effects of the Incorporation of Inorganic Nanoparticles into Bulk Heterojunction Organic Solar Cells. , 2018, , 1-68.		3
1424	Doped Copper Phthalocyanine via an Aqueous Solution Process for Normal and Inverted Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1701688.	19.5	71
1425	A series of bowl-shaped PDI dimers designed for organic photovoltaic cells through engineering N-annulated bridge towards potential alternatives of PDI bridged dimer acceptors. Dyes and Pigments, 2018, 148, 394-404.	3.7	17

#	ARTICLE	IF	CITATIONS
1426	A new small molecule acceptor based on indaceno[2,1-b:6,5-b <sup>TM</sup> ]dithiophene and thiophene-fused ending group for fullerene-free organic solar cells. <i>Dyes and Pigments</i> , 2018, 148, 263-269.	3.7	17
1427	Effects of Nonradiative Losses at Charge Transfer States and Energetic Disorder on the Open-Circuit Voltage in Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1705659.	14.9	77
1428	The integrated adjustment of chlorine substitution and two-dimensional side chain of low band gap polymers in organic solar cells. <i>Polymer Chemistry</i> , 2018, 9, 940-947.	3.9	30
1429	Energy levels modulation of small molecule acceptors for polymer solar cells. <i>Synthetic Metals</i> , 2018, 235, 131-135.	3.9	10
1430	Impact of Acceptor Fluorination on the Performance of All-Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 955-969.	8.0	31
1431	Quantitative structure-property relationship modeling of small organic molecules for solar cells applications. <i>Journal of Chemometrics</i> , 2018, 32, e2957.	1.3	5
1432	An investigation of the role acceptor side chains play in the processibility and efficiency of organic solar cells fabricated from small molecular donors featuring 3,4-ethylenedioxythiophene cores. <i>RSC Advances</i> , 2018, 8, 39231-39240.	3.6	5
1433	An efficient lactone-to-lactam conversion for the synthesis of thiophene Pechmann lactam and the characterization of polymers thereof. <i>Polymer Chemistry</i> , 2018, 9, 5234-5241.	3.9	2
1434	In Situ Growth of Metal Sulfide Nanocrystals in Poly(3-hexylthiophene): [6,6]-Phenyl C61-Butyric Acid Methyl Ester Films for Inverted Hybrid Solar Cells with Enhanced Photocurrent. <i>Nanoscale Research Letters</i> , 2018, 13, 184.	5.7	8
1435	BODIPY-Based Semiconducting Materials for Organic Bulk Heterojunction Photovoltaics and Thin-Film Transistors. <i>ChemPlusChem</i> , 2019, 84, 18-37.	2.8	95
1436	The model of the fullerene C60 and its ions C60 <sup>+</sup> , C60 <sup>2+</sup> pseudopotentials for molecular dynamics purposes. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	6
1437	Application of ferroelectric materials for improving output power of energy harvesters. <i>Nano Convergence</i> , 2018, 5, 30.	12.1	80
1438	Recent Developments in the Optimization of the Bulk Heterojunction Morphology of Polymer: Fullerene Solar Cells. <i>Materials</i> , 2018, 11, 2560.	2.9	63
1439	From C <sub>60</sub> Ph <sub>5</sub> Cl to C <sub>60</sub> Ph <sub>6</sub> : complete phenylation of C <sub>60</sub> derivative renders superior organic photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12721-12727.	5.5	5
1440	Controlling Intermolecular Interactions at Interfaces: Case of Supramolecular Tuning of Fullerene's Electronic Structure. <i>Advanced Energy Materials</i> , 2018, 8, 1801737.	19.5	18
1441	Selective Formation of End-on Orientation between Polythiophene and Fullerene Mediated by Coordination Nanospaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24182-24189.	3.1	11
1442	Electrochemical polymerization for two-dimensional conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10672-10686.	5.5	39
1443	A model hamiltonian tuned toward high level <i>ab initio</i> calculations to describe the character of excitonic states in perylenebisimide aggregates. <i>Journal of Computational Chemistry</i> , 2018, 39, 1979-1989.	3.3	14

#	ARTICLE	IF	CITATIONS
1444	Hybrid density functional study on the electronic structures and properties of P3HTâ€PbS and P3HTâ€CdS hybrid interface for photovoltaic applications. Journal of Computational Chemistry, 2018, 39, 1990-1999.	3.3	1
1445	Engineering and design of simple models from dye-sensitive of solar cells and photovoltaic cells applications: Theoretical study. Chemical Physics Letters, 2018, 713, 166-171.	2.6	11
1446	The effects of electronic structures of four benzodithiophene-based copolymers on their photovoltaic performances. Computational and Theoretical Chemistry, 2018, 1145, 28-36.	2.5	0
1447	A DFT analysis of the ground and charge-transfer excited states of Sc <sub>3</sub> N@I <sub>h</sub> C <sub>80</sub> fullerene coupled with metal-free and zinc-phthalocyanine. Physical Chemistry Chemical Physics, 2018, 20, 25841-25848.	2.8	10
1448	Investigation of Inverted Perovskite Solar Cells for Viscosity of PEDOT:PSS Solution. Crystals, 2018, 8, 358.	2.2	7
1449	Effect of cathode interface thickness on the photovoltaic parameters of bulk heterojunction organic solar cells. Materials Research Express, 2018, 5, 116203.	1.6	2
1450	A new wide-bandgap conjugated polymer based on imide-fused benzotriazole for highly efficient nonfullerene polymer solar cells. Dyes and Pigments, 2018, 158, 219-224.	3.7	3
1451	<i>cis</i> -Dioxomolybdenum(VI) complex of N- <i>o</i> -hydroxyacetophenonene-isonicotinic acid hydrazide as nosocomial anti-infectious agent: experimental and theoretical study. Journal of the Chinese Advanced Materials Society, 2018, 6, 282-300.	0.7	11
1452	Adsorption of alanine with heteroatom substituted fullerene for solar cell application: A DFT study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 202, 333-345.	3.9	7
1453	Naphtho[1,2- <i>c</i> :5,6- <i>c'</i> ]bis[1,2,5]thiadiazole-Based Nonfullerene Acceptors: Effect of Substituents on the Thiophene Unit on Properties and Photovoltaic Characteristics. ACS Omega, 2018, 3, 5814-5824.	3.5	5
1454	Manipulating Triplet Yield through Control of Symmetry-Breaking Charge Transfer. Journal of Physical Chemistry Letters, 2018, 9, 3264-3270.	4.6	44
1455	Effect of the Type and Number of Organic Addends on Fullerene Acceptors for n-Type Electronic Devices: Redox Properties and Energy Levels. ChemistrySelect, 2018, 3, 5778-5785.	1.5	4
1456	Improving charge transport by the ultrathin QDs interlayer in polymer solar cells. RSC Advances, 2018, 8, 17914-17920.	3.6	5
1457	Theoretical Study on the Photoelectric Properties of a Class of Copolymers Based on Benzodithiophene for Solar Cells. International Journal of Polymer Science, 2018, 2018, 1-11.	2.7	2
1458	Effect of fullerene acceptor on the performance of solar cells based on PffBT4T-2OD. Physical Chemistry Chemical Physics, 2018, 20, 19023-19029.	2.8	14
1459	Organic Photovoltaics over Three Decades. Advanced Materials, 2018, 30, e1800388.	21.0	540
1460	Octaalkoxyfullerenes: Widely LUMO-Tunable <i>C</i> <sub>2v</sub> -Symmetric Fullerene Derivatives. Journal of Organic Chemistry, 2018, 83, 10655-10659.	3.2	7
1461	Optical Gaps of Organic Solar Cells as a Reference for Comparing Voltage Losses. Advanced Energy Materials, 2018, 8, 1801352.	19.5	319



#	ARTICLE	IF	CITATIONS
1462	Efficient Organic Solar Cells with Extremely High Open-Circuit Voltages and Low Voltage Losses by Suppressing Nonradiative Recombination Losses. <i>Advanced Energy Materials</i> , 2018, 8, 1801699.	19.5	117
1463	Efficient Non-fullerene Organic Solar Cells Enabled by Sequential Fluorination of Small-Molecule Electron Acceptors. <i>Frontiers in Chemistry</i> , 2018, 6, 303.	3.6	11
1465	Electric-Field-Induced Excimer Formation at the Interface of Deep-Blue Emission Poly(9,9-dioctyl-2,7-fluorene) with Polyelectrolyte or Its Precursor as Electron-Injection Layer in Polymer Light-Emitting Diode and Its Prevention for Stable Emission and Higher Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 26422-26433.	8.0	3
1466	The Introduction of Fluorine and Sulfur Atoms into Benzotriazole-Based p-Type Polymers to Match with a Benzotriazole-Containing n-Type Small Molecule: The Same Acceptor Strategy to Realize High Open-Circuit Voltage. <i>Advanced Energy Materials</i> , 2018, 8, 1801582.	19.5	122
1467	Benchmark study of ionization potentials and electron affinities of armchair single-walled carbon nanotubes using density functional theory. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 215501.	1.8	10
1468	Ohmic transition at contacts key to maximizing fill factor and performance of organic solar cells. <i>Nature Communications</i> , 2018, 9, 3269.	12.8	63
1469	Near-Infrared Small Molecule Acceptor Enabled High-Performance Nonfullerene Polymer Solar Cells with Over 13% Efficiency. <i>Advanced Functional Materials</i> , 2018, 28, 1803128.	14.9	78
1470	4.15 Solar Cells. , 2018, , 637-658.		4
1471	Light absorption and efficiency enhancements for organic photovoltaic devices with Au@PSS core-shell tetrahedra. <i>Organic Electronics</i> , 2018, 61, 96-103.	2.6	6
1472	Relating open-circuit voltage losses to the active layer morphology and contact selectivity in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12574-12581.	10.3	65
1473	Green fabrication of stable lead-free bismuth based perovskite solar cells using a non-toxic solvent. <i>Communications Chemistry</i> , 2019, 2, .	4.5	119
1474	Effect of counter-ions on the properties and performance of non-conjugated polyelectrolyte interlayers in solar cell and transistor devices. <i>RSC Advances</i> , 2019, 9, 20670-20676.	3.6	16
1475	Exploration of optoelectronic and photosensitization properties of triphenylamine-based organic dye on TiO <sub>2</sub> surfaces. <i>Journal of Computational Electronics</i> , 2019, 18, 1119-1127.	2.5	12
1476	Energy level gamut—a wide-angle lens to look at photoelectronic properties of diketopyrrolopyrrole-benzothiadiazole-based small molecules. <i>Journal of Molecular Modeling</i> , 2019, 25, 224.	1.8	0
1477	Étude structurale des systèmes dissymétriques de structure D-π-A à base de thiopyrazine destinés aux cellules solaires organiques de type « bulk heterojunction » (BHJ). <i>Canadian Journal of Chemistry</i> , 2019, 97, 745-755.	1.1	1
1478	Use of the PhenylDPO:Sn(SCN) <sub>2</sub> Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1905810.	14.9	41
1479	New cyclopentadithiophene-based (X-DAD-AD) <sub>n</sub> conjugated polymers for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 66-72.	6.2	13
1480	From cyclic nanorings to single-walled carbon nanotubes: disclosing the evolution of their electronic structure with the help of theoretical methods. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2547-2557.	2.8	20

#	ARTICLE	IF	CITATIONS
1481	Relating Frontier Orbital Energies from Voltammetry and Photoelectron Spectroscopy to the Open-Circuit Voltage of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803677.	19.5	70
1482	Effect of electron-withdrawing groups on photovoltaic performance of thiophene-vinyl-thiophene derivative and benzochalcogenadiazole based copolymers: A computational study. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25982.	2.0	8
1483	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019, 25, 12316-12324.	3.3	5
1484	Copper sulphide as a mechanism to improve energy harvesting in thin film solar cells. <i>Journal of Alloys and Compounds</i> , 2019, 802, 252-258.	5.5	29
1485	Polymer nanocomposites for solar cells: research trends and perspectives. , 2019, , 557-600.		2
1486	4-Methylthio substitution on benzodithiophene-based conjugated polymers for high open-circuit voltage polymer solar cells. <i>Synthetic Metals</i> , 2019, 254, 122-127.	3.9	13
1487	Influence of material migration on the mechanical integrity of inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110008.	6.2	7
1488	Performance improvement of organic solar cell via incorporation of donor type self-assembled interfacial monolayer. <i>Thin Solid Films</i> , 2019, 685, 88-96.	1.8	10
1489	New Directions for Organic Thin-Film Solar Cells: Stability and Performance. , 2019, , 195-244.		3
1490	Boosting the power conversion efficiency of perovskite solar cells to 17.7% with an indolo[3,2- <i>b</i> ]carbazole dopant-free hole transporting material by improving its spatial configuration. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14835-14841.	10.3	39
1491	Understanding the open circuit voltage in organic solar cells on the basis of a donor-acceptor abrupt (p-n++) heterojunction. <i>Solar Energy</i> , 2019, 184, 610-619.	6.1	16
1492	Impact of Alkyl Side Chains on Optoelectronic and Photovoltaic Properties of Novel Benzodithiophenedione-Based Conjugated Polymers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900154.	2.4	2
1493	The effects of electronic and structural properties of two small molecules on their photovoltaic performances. <i>Chemical Physics Letters</i> , 2019, 728, 37-43.	2.6	5
1494	A High-Performance Non-Fullerene Acceptor Compatible with Polymers with Different Bandgaps for Efficient Organic Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800376.	5.8	37
1495	Synthesis, characterization of binary and ternary copper(II)-semicarbazone complexes: Solvatochromic shift, dipole moments and TD-DFT calculations. <i>Journal of Molecular Structure</i> , 2019, 1186, 362-376.	3.6	13
1496	Energy alignment and recombination in perovskite solar cells: weighted influence on the open circuit voltage. <i>Energy and Environmental Science</i> , 2019, 12, 1309-1316.	30.8	106
1497	Polymer/Fullerene Blend Solar Cells with Cadmium Sulfide Thin Film as an Alternative Hole-Blocking Layer. <i>Polymers</i> , 2019, 11, 460.	4.5	2
1498	Optimizing Polymer Solar Cells Using Non-Halogenated Solvent Blends. <i>Polymers</i> , 2019, 11, 544.	4.5	7

#	ARTICLE	IF	CITATIONS
1499	Effect of Charge-Transfer State Energy on Charge Generation Efficiency via Singlet Fission in Pentacene–Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10253-10261.	3.1	15
1500	Designation and Match of Non–Fullerene Acceptors with X–Shaped Donors toward Organic Solar Cells. <i>ChemistrySelect</i> , 2019, 4, 3654-3664.	1.5	10
1501	A polymeric ionic liquid as a cathode interlayer of organic photovoltaics with improved reproducibility. <i>Chemical Communications</i> , 2019, 55, 2956-2959.	4.1	5
1502	Polymer Solar Cells–Interfacial Processes Related to Performance Issues. <i>Frontiers in Chemistry</i> , 2019, 7, 61.	3.6	57
1503	Extraction of interface trap density by analyzing organohalide perovskite and metal contacts using device simulation. <i>AIP Advances</i> , 2019, 9, 125203.	1.3	2
1504	All-polymer indoor photovoltaics with high open-circuit voltage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26533-26539.	10.3	107
1505	Synthesis and Electrochemical Properties of Fullerenylstyrenes. <i>Journal of Organic Chemistry</i> , 2019, 84, 16333-16337.	3.2	8
1506	Exploring the optoelectronic properties of a chromene-appended pyrimidone derivative for photovoltaic applications. <i>Open Chemistry</i> , 2019, 17, 1167-1172.	1.9	0
1507	PffBT4T-2OD Based Solar Cells with Aryl-Substituted N-Methyl-Fulleropyrrolidine Acceptors. <i>Materials</i> , 2019, 12, 4100.	2.9	2
1508	[2,2–Bithiophene]-4,4–dicarboxamide: a novel building block for semiconducting polymers. <i>RSC Advances</i> , 2019, 9, 30496-30502.	3.6	5
1509	A zinc(II) complex of di(naphthylethynyl)azadipyrromethene with low synthetic complexity leads to OPV with high industrial accessibility. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24614-24625.	10.3	11
1510	Electrochemical, photovoltaic and DFT studies on hybrid materials based on supramolecular self-assembly of a ditopic twisted perylene diimide with square-planar platinum(II)- and/or palladium(II)-2,2–6–,2–terpyridyl complex ions. <i>Dyes and Pigments</i> , 2019, 161, 66-78.	3.7	8
1511	The Critical Impact of Material and Process Compatibility on the Active Layer Morphology and Performance of Organic Ternary Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802293.	19.5	35
1512	Nanomorphology in A–D–A type small molecular acceptors-based bulk heterojunction polymer solar cells. <i>Journal of Energy Chemistry</i> , 2019, 35, 104-123.	12.9	20
1513	Effects of radio frequency power and gas ratio on barrier properties of SiOxNy films deposited by inductively coupled plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2019, 669, 108-113.	1.8	6
1514	Metal nano-composite as charge transport co-buffer layer in perovskite based solar cell. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 126, 124-130.	4.0	17
1515	Indium Tin Oxide–Based Fully Spray–Coated Inverted Solar Cells with Nontoxic Solvents: The Role of Buffer Layer Interface on Low–Bandgap Photoactive Layer Performance. <i>Energy Technology</i> , 2019, 7, 1800627.	3.8	6
1516	Organic solar cells: Materials and prospects of graphene for active and interfacial layers. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2020, 45, 261-288.	12.3	10

#	ARTICLE	IF	CITATIONS
1517	PEDOT/Superoxide Dismutase Electrode Surface Modification for Superoxide Bioelectrochemical Sensing. <i>Electroanalysis</i> , 2020, 32, 29-36.	2.9	2
1518	Solution-Processed Ternary Oxides as Carrier Transport/Injection Layers in Optoelectronics. <i>Advanced Energy Materials</i> , 2020, 10, 1900903.	19.5	44
1519	Physical origin of the temperature-dependent open-circuit voltage in solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	1
1520	Open-circuit voltage of organic solar cells: Effect of energetically and spatially nonuniform distribution of molecular energy levels in the photoactive layer. <i>Nano Energy</i> , 2020, 78, 105336.	16.0	12
1521	Synthesis of a triethylene glycol-capped benzo[1,2-c:4,5-c']bis[2]benzopyran-5,12-dione: A highly soluble dilactone-bridged p-terphenyl with a crankshaft architecture. <i>Tetrahedron Letters</i> , 2020, 61, 152429.	1.4	2
1522	Solubilizing Side Chain Engineering: Efficient Strategy to Improve the Photovoltaic Performance of Novel Benzodithiophene-Based (XADAD) n Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000430.	3.9	5
1523	Insight into the Origins of Figures of Merit and Design Strategies for Organic/Inorganic Lead-Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000452.	5.8	14
1524	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
1525	Electric field effects on organic photovoltaic heterojunction interfaces: The model case of pentacene/C60. <i>Computational and Theoretical Chemistry</i> , 2020, 1186, 112914.	2.5	14
1526	Role of interface properties in organic solar cells: from substrate engineering to bulk-heterojunction interfacial morphology. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2863-2880.	5.9	61
1527	Design of novel thiazolothiazole-based conjugated polymer for efficient fullerene and non-fullerene organic solar cells. <i>Synthetic Metals</i> , 2020, 268, 116508.	3.9	12
1528	Theoretical Design of Dithienopicenocarbazole-Based Molecules by Molecular Engineering of Terminal Units Toward Promising Non-fullerene Acceptors. <i>Frontiers in Chemistry</i> , 2020, 8, 580252.	3.6	7
1529	Conducting Polymers for Optoelectronic Devices and Organic Solar Cells: A Review. <i>Polymers</i> , 2020, 12, 2627.	4.5	127
1530	Fast Field-Insensitive Charge Extraction Enables High Fill Factors in Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38460-38469.	8.0	8
1531	Comparison Study of the Chlorination Positions in Wide Band Gap Donor Polymers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24592-24600.	3.1	12
1532	Replacing aromatic $\pi$ -system with cycloalkyl in triphenylamine dyes to impact intramolecular charge transfer in dyes pertaining to dye-sensitized solar cells application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 403, 112862.	3.9	18
1533	Importance of Optimal Crystallinity and Hole Mobility of BDT-Based Polymer Donor for Simultaneous Enhancements of $V_{oc}$ , $J_{sc}$ , and FF in Efficient Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2005787.	14.9	55
1534	Design of Silicon Nanowire Array for PEDOT:PSS-Silicon Nanowire-Based Hybrid Solar Cell. <i>Energies</i> , 2020, 13, 3797.	3.1	33

#	ARTICLE	IF	CITATIONS
1535	Electrically stable Ag nanowire network anodes densely passivated by a conductive amorphous InSnTiO layer for flexible organic photovoltaics. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	9
1536	A Review on Solution-Processable Dopant-Free Small Molecules as Hole-Transporting Materials for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000254.	8.6	64
1537	Performance improvement of polymer solar cells with binary additives induced morphology optimization and interface modification simultaneously. <i>Solar Energy</i> , 2020, 201, 330-338.	6.1	14
1538	Understanding of copolymers containing pyridine and selenophene simultaneously and their polarity conversion in transistors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3567-3577.	5.9	6
1539	Structure-Property Study of Homoleptic Zinc(II) Complexes of Di(arylethynyl) Azadipyrromethene as Nonfullerene Acceptors for Organic Photovoltaics: Effect of the Aryl Group. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8541-8549.	3.1	7
1540	Improved short-circuit current density in bulk heterojunction solar cells with reduced graphene oxide-germanium dioxide nanocomposite in the photoactive layer. <i>Materials Chemistry and Physics</i> , 2020, 254, 123448.	4.0	13
1541	A computational investigation of the influence of acceptor moieties on photovoltaic performances and adsorption onto the TiO <sub>2</sub> surface in triphenylamine-based dyes for DSSC application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112745.	3.9	18
1542	Boosting the short-circuit current density of organic photovoltaics using a composite electrode. <i>Synthetic Metals</i> , 2020, 265, 116379.	3.9	0
1543	Significantly Enhanced Molecular Stacking in Ternary Bulk Heterojunctions Enabled by an Appropriate Side Group on Donor Polymer. <i>Advanced Science</i> , 2020, 7, 1903455.	11.2	33
1544	Determining the sequence and backbone structure of "semi-statistical" copolymers as donor-acceptor polymers in organic solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2026-2034.	4.9	7
1545	Design of novel thiazolothiazole-containing conjugated polymers for organic solar cells and modules. <i>Solar Energy</i> , 2020, 198, 605-611.	6.1	18
1546	Exciton transfer free energy from Car-Parrinello molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10526-10535.	2.8	8
1547	Functionalised graphene as flexible electrodes for polymer photovoltaics. <i>Journal of Alloys and Compounds</i> , 2020, 825, 153954.	5.5	45
1548	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie</i> , 2020, 132, 5341-5345.	2.0	10
1549	Electronic properties modulation of D-A-A via fluorination of 2-cyano-2-pyran-4-ylidene-acetic acid acceptor unit for efficient DSSCs: DFT-TDDFT approach. <i>Scientific African</i> , 2020, 7, e00287.	1.5	9
1550	Minimization of Carrier Losses for Efficient Perovskite Solar Cells through Structural Modification of Triphenylamine Derivatives. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5303-5307.	13.8	29
1551	Structure-Dependent Charge Transfer in Molecular Perylene-Based Donor/Acceptor Systems and Role of Side Chains. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11639-11651.	3.1	10
1552	Theoretical study of new conjugated compounds with a low bandgap for bulk heterojunction solar cells: DFT and TD-DFT study. <i>Results in Chemistry</i> , 2020, 2, 100040.	2.0	33

#	ARTICLE	IF	CITATIONS
1553	Elucidating Roles of Polymer Donor Aggregation in All-Polymer and Non-Fullerene Small-Molecule Polymer Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 3585-3596.	6.7	38
1554	Complex Corrosion Properties of AISI 316L Steel Prepared by 3D Printing Technology for Possible Implant Applications. <i>Materials</i> , 2020, 13, 1527.	2.9	25
1555	Light trapping using copper decorated nano-composite in the hole transport layer of organic solar cell. <i>Solar Energy</i> , 2020, 203, 83-90.	6.1	23
1556	Three-component coupling reaction of the C60 fullerene, indole and propargyl bromide: a theoretical study. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 130, 75-90.	1.7	4
1557	High Performance Fluorinated Fused Ring Electron Acceptor with 3D Stacking and Exciton/Charge Transport. <i>Advanced Materials</i> , 2020, 32, e2000645.	21.0	122
1558	Electrical properties of Cadmium Sulfide quantum dots and polyaniline based nanocomposites. <i>Journal of Alloys and Compounds</i> , 2021, 854, 156661.	5.5	15
1559	Structure-properties relationships in triarylamine-based push-pull systems-C60 dyads as active material for single-material organic solar cells. <i>Dyes and Pigments</i> , 2021, 184, 108845.	3.7	2
1560	Review and perspective of materials for flexible solar cells. <i>Materials Reports Energy</i> , 2021, 1, 100001.	3.2	54
1561	Improved exciton dissociation efficiency by a carbon-quantum-dot doped workfunction modifying layer in polymer solar cells. <i>Current Applied Physics</i> , 2021, 21, 140-146.	2.4	7
1562	Computational study of 4,4'-dimethoxy triphenylamine donor linked with low band gap $\pi$ -spacers by single and double bonds for DSSC applications. <i>New Journal of Chemistry</i> , 2021, 45, 16989-17001.	2.8	5
1563	Synthesis and characterization of benzobisthiazole based polymers as donor materials for organic solar cells. <i>Mendeleev Communications</i> , 2021, 31, 30-32.	1.6	6
1564	Novel (XADAD) n Polymers with Phenylene and Fluorene Blocks as Promising Electronic Materials for Organic and Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000816.	1.8	2
1565	Enhanced flexible optoelectronic devices by controlling the wettability of an organic bifacial interlayer. <i>Communications Materials</i> , 2021, 2, .	6.9	13
1566	A Large Bandgap Guest Material Enabling Improved Efficiency and Reduced Energy Loss for Ternary Polymer Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100013.	5.8	5
1567	Photophysical, Thermal and Structural Properties of Thiophene and Benzodithiophene-Based Copolymers Synthesized by Direct Arylation Polycondensation Method. <i>Polymers</i> , 2021, 13, 1151.	4.5	6
1568	Polymer acceptor based on naphthalene diimide and diethynylbenzo[1,2-b:4,5-b'] dithiophene units for efficient all-polymer solar cells. <i>Dyes and Pigments</i> , 2021, 189, 109246.	3.7	3
1569	Fluorination on electron-deficient units of benzothiadiazole-based donor-acceptor conjugated polymers for novel fullerene-based organic solar cells. <i>Solar Energy</i> , 2021, 220, 864-872.	6.1	7
1570	Effect of alkylthiolated hetero-aromatic rings on the photovoltaic performance of benzodithiophene-based polymer/fullerene solar cells. <i>Synthetic Metals</i> , 2021, 276, 116756.	3.9	4



#	ARTICLE	IF	CITATIONS
1571	Chlorination converting one efficient polymeric donor to an effective electron acceptor in organic solar cells. Nano Select, 0, , .	3.7	3
1572	Theoretical study of dipyrindine phenanthrene derivatives for BHJ organic solar cells application: a DFT approach. Research on Chemical Intermediates, 2021, 47, 4657-4672.	2.7	2
1573	A scientometric review of trends in solar photovoltaic waste management research. Solar Energy, 2021, 224, 545-562.	6.1	28
1574	Exploring the charge injection aptitude in pyrazol and oxazole derivatives by the first-principles approach. Zeitschrift Fur Physikalische Chemie, 2021, , .	2.8	0
1575	Recent Progress on the Scanning Tunneling Microscopy and Spectroscopy Study of Semiconductor Heterojunctions. Small, 2021, , 2100655.	10.0	8
1576	GFCCLib: Scalable and efficient coupled-cluster Green's function library for accurately tackling many-body electronic structure problems. Computer Physics Communications, 2021, 265, 108000.	7.5	8
1577	Investigating the effect of diverse structural variation of conjugated polymer electrolytes as the interlayer on photovoltaic properties. Chemical Engineering Journal, 2021, 420, 129895.	12.7	17
1578	Calamitic-Type Dipolar and Quadrupolar Chromophores with a Twisted Peripheral Handle: Structureâ€”Property Outlook as Nonfullerene Acceptors for Binary Solar Cells. ACS Applied Energy Materials, 2021, 4, 11609-11623.	5.1	11
1579	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatfoms as Building Blocks for Photovoltaic Energy Applications. Frontiers in Chemistry, 2021, 9, 727574.	3.6	3
1580	Spectral response and quantum efficiency evaluation of solar cells: a review. , 2021, , 525-566.		3
1581	Molecular engineering of twisted dipolar chromophores for efficiency boosted BHJ solar cells. Journal of Materials Chemistry C, 2021, 9, 4562-4575.	5.5	16
1582	Polyfullerenes for Organic Photovoltaics. , 0, , 171-187.		1
1583	Physics and Materials Issues of Organic Photovoltaics. Kluwer International Series in Electronic Materials: Science and Technology, 2009, , 329-371.	0.5	1
1584	Organic Solar Cells. , 2012, , 7553-7584.		2
1585	Fabrication and Characterization of Self-Organized Nanostructured Organic Thin Films and Devices. , 2008, , 263-300.		2
1586	Fullerenes and Beyond: Complexity, Morphology, and Functionality in Closed Carbon Nanostructures. , 2013, , 83-104.		6
1587	Semiconductor Aspects of Organic Bulk Heterojunction Solar Cells. Springer Series in Materials Science, 2003, , 159-248.	0.6	9
1588	Competitive role between conformational lock and steric hindrance in D-A copolymers containing 1,4-bis(thieno[3,2-b]thiophen-2-yl)benzene unit. Dyes and Pigments, 2020, 181, 108540.	3.7	1

#	ARTICLE	IF	CITATIONS
1589	Bulk heterojunction solar cells with internal quantum efficiency approaching 100%. , 0, .		1
1590	Effect of conjugated polymer electrolytes with diverse acid derivatives as a cathode buffer layer on photovoltaic properties. Journal of Materials Chemistry A, 2020, 8, 4562-4569.	10.3	16
1591	Conducting and Transparent Polymer Electrodes. , 2017, , 479-494.		1
1592	High brightness and efficiency of polymer-blend based light-emitting layers without the assistance of the charge-trapping effect. Optics Express, 2019, 27, A693.	3.4	1
1593	Hole transport layer selection toward efficient colloidal PbS quantum dot solar cells. Optics Express, 2019, 27, A1338.	3.4	14
1594	Study of the MDMO-PPV/metal interface and PCBM/metal interface by electroabsorption spectroscopy. Materials Research Society Symposia Proceedings, 2003, 771, 10291.	0.1	1
1595	Nanoscale Engineering of Exciton Dissociating Interfaces in Organic Photovoltaics. Journal of Nano Research, 0, 14, 125-136.	0.8	5
1596	Carbon nanomaterials in organic photovoltaic cells. Carbon Letters, 2011, 12, 194-206.	5.9	8
1597	Small-Molecule-Based Organic Photovoltaic Devices Covering Visible and Near-Infrared Absorption through Phase Transition of Titanylphthalocyanine Induced by Solvent Exposure. Japanese Journal of Applied Physics, 2011, 50, 121603.	1.5	6
1598	Organic Photovoltaic Cells Employing an Ultrathin Electron Donor of Arylamino-Substituted Fumaronitrile Material. Japanese Journal of Applied Physics, 2012, 51, 09MA04.	1.5	4
1599	Designing small organic non-fullerene acceptor molecules with difluorobenzene or quinoline core and dithiophene donor moiety through density functional theory. Scientific Reports, 2021, 11, 19683.	3.3	29
1600	Effects of Heteroatom Substitution on the Photovoltaic Performance of Donor Materials in Organic Solar Cells. Accounts of Materials Research, 2021, 2, 986-997.	11.7	25
1601	Mixed Solvent as a Critical Factor in Optimizing Phase Separation of All Small Molecule Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 11769-11776.	5.1	2
1602	Conducting Organic Materials and Devices. Semiconductors and Semimetals, 2007, , .	0.7	1
1603	Sensing infrared light with an organic/inorganic hetero-junction. Springer Proceedings in Physics, 2009, , 153-157.	0.2	0
1604	Bulk Heterojunction Solar Cells for Large-Area PV Fabrication on Flexible Substrates. Kluwer International Series in Electronic Materials: Science and Technology, 2009, , 373-412.	0.5	0
1606	Investigation on the effect of cathode work function and exciton generation rate on the open-circuit voltage of single layer organic solar cell with Schottky contact. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 2126.	0.5	4
1607	Implications of Interfacial Electronics to Performance of Organic Photovoltaic Devices. Green Energy and Technology, 2010, , 169-197.	0.6	0

#	ARTICLE	IF	CITATIONS
1608	Influence of the thickness and cathode material on the performance of the polymer solar cell. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 038401.	0.5	7
1609	Influence of PEDOT:PSS film doped with sorbitol on performances of organic solar cells. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 078803.	0.5	4
1610	Polymer in Sustainable Energy. Journal of Minerals and Materials Characterization and Engineering, 2012, 11, 661-666.	0.4	3
1611	Acceptor Material Dependence of Photovoltaic Properties in Bulk Heterojunction Organic Thin Film Solar Cells Utilizing Soluble Octahexylphthalocyanine. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1727-1732.	0.2	1
1612	High-Performance Semitransparent Bulk-Heterojunction Organic Photovoltaics with Ag Interfacial Layer. Japanese Journal of Applied Physics, 2012, 51, 024104.	1.5	0
1613	Heuristic approaches to the optimization of acceptor systems in bulk heterojunction cells: a computational study. Highlights in Theoretical Chemistry, 2013, , 291-297.	0.0	0
1614	Organic Thin Film Solar Cell and the Possibility of its Improvement Using Surface Plasmon Resonance. The Review of Laser Engineering, 2013, 41, 177.	0.0	0
1615	Organic Solar Cells organic solar cell. , 2013, , 97-128.		1
1616	Research Progress and Manufacturing Techniques for Large-Area Polymer Solar Cells. , 2014, , 275-300.		0
1617	Organic Photovoltaics: Basic Concepts and Device Physics. , 2015, , 1-17.		0
1618	Comparing the performance of Organic-inorganic hybrid tandem multijunction solar cells of different organic bulk thicknesses. Ci&ncia E Natura, 0, 37, 49.	0.0	0
1619	Organic Photovoltaics: Basic Concepts and Device Physics. , 2016, , 3119-3134.		0
1620	New Low-Band Gap 2D-Conjugated Polymer with Alkylthiobithiophene-Substituted Benzodithiophene for Organic Photovoltaic Cells. Journal of the Korean Chemical Society, 2016, 60, 194-202.	0.2	0
1621	Bondonic Electrochemistry. , 2017, , 277-359.		0
1622	Bondonic Electrochemistry. Advances in Chemical and Materials Engineering Book Series, 2017, , 328-411.	0.3	1
1625	Solar Cells Based on Composites of Donor Conjugated Polymers and Carbon Nanotubes. , 2017, , 351-366.		0
1626	Exploration of donor effect on electron injection and photovoltaic properties of chalcone derivatives. Materials Science-Poland, 2018, 36, 276-282.	1.0	0
1627	Performance Enhancement for Scattering Effect in Perovskite Solar Cell with Distinct Cathode Materials. Lecture Notes in Electrical Engineering, 2020, , 965-971.	0.4	0

#	ARTICLE	IF	CITATIONS
1629	Effective Strategy to Improve Contact Selectivity in Organic Solar Cells. ACS Applied Energy Materials, 0, , .	5.1	1
1630	Naphthalene diimide-based electron transport materials for perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 27170-27192.	10.3	17
1631	New wide-bandgap Dâ€‘A polymer based on pyrrolo[3,4- <i>b</i> ]dithieno[2,3- <i>f</i> :3â€‘,2â€‘- <i>h</i> ]quinoxalindione and thiazole functionalized benzo[1,2- <i>b</i> :4,5- <i>b</i> :â€‘]dithiophene units for high-performance ternary organic solar cells with over 16% efficiency. Sustainable Energy and Fuels, 2022, 6, 682-692.	4.9	1
1632	ITIC derivative acceptors for ternary organic solar cells: fine-tuning of absorption bands, LUMO energy levels, and cascade charge transfer. Sustainable Energy and Fuels, 2021, 6, 110-120.	4.9	4
1633	A Comparison of Charge Carrier Dynamics in Organic and Perovskite Solar Cells. Advanced Materials, 2022, 34, e2101833.	21.0	55
1634	Noncovalent Conformational Locks Enabling Efficient Nonfullerene Acceptors. Solar Rrl, 2022, 6, 2100768.	5.8	13
1635	Designing New Indene-Fullerene Derivatives as Electron-Transporting Materials for Flexible Perovskite Solar Cells. Journal of Physical Chemistry C, 2021, 125, 27344-27353.	3.1	8
1636	Design and fabrication of wafer-scale highly uniform silicon nanowire arrays by metal-assisted chemical etching for antireflection films. Results in Physics, 2021, 31, 105018.	4.1	4
1637	Electron and hole transport in solution-processed fullerenes. Journal of Materials Chemistry C, 2021, 9, 16068-16077.	5.5	3
1638	Donorâ€‘acceptorâ€‘donor (D-A-D) structural monomers as donor materials in polymer solar cells: a DFT/TDDFT approach. Designed Monomers and Polymers, 2021, 24, 330-342.	1.6	4
1639	Eco-compatible and highly efficient organic solar cells with an aggregation-controlled terpolymer strategy. Journal of Materials Chemistry A, 2021, 9, 27551-27559.	10.3	6
1640	Colloidal InSb Quantum Dots/Organic Integrated Bulk Heterojunction for Fast and Sensitive Nearâ€‘Infrared Photodetectors. Advanced Photonics Research, 2022, 3, .	3.6	8
1641	Effect of the Side Chain Functionality of the Conjugated Polyelectrolytes as a Cathode Interlayer Material on the Photovoltaic Performances. Macromolecular Research, 2022, 30, 146-151.	2.4	13
1642	Simulation of the performance of organic solar cells based on D1-BT-EDOT-BT-D2-A/PCBM structures. E3S Web of Conferences, 2022, 336, 00063.	0.5	1
1643	Studies of New 2,7â€‘Carbazole (CB) Based Donorâ€‘Acceptorâ€‘Donor (Dâ€‘Aâ€‘D) Monomers as Possible Electron Donors in Polymer Solar Cells by DFT and TDâ€‘DFT Methods. ChemistryOpen, 2022, 11, e202100273.	1.9	2
1644	Comparative analysis of characterization techniques of QDs-based photovoltaic applications: A review. Optik, 2022, 255, 168709.	2.9	4
1645	Conjugated Poly(metalla-ynes). , 2022, , .		0
1646	Pyrazole-, isoxazole- and pyrrole-ring fused derivatives of C <sub>60</sub> : synthesis and electrochemical properties as well as morphological characterization. New Journal of Chemistry, 2022, 46, 6663-6669.	2.8	1

#	ARTICLE	IF	CITATIONS
1647	Organic Semiconductors for Light Detection. Springer Theses, 2022, , 49-90.	0.1	0
1648	Effect of the Terminal Acceptor Unit on the Performance of Non-Fullerene Indacenodithiophene Acceptors in Organic Solar Cells. Molecules, 2022, 27, 1229.	3.8	2
1650	Monofluorination of Naphthyls Promotes the Cofacial $\pi$ - $\pi$ Stacking and Increases the Electron Mobility of Non-Planar Zinc(II) Complexes of Di(naphthylethynyl)azadipyrromethene. Journal of Physical Chemistry C, 2022, 126, 6543-6555.	3.1	0
1651	Designing of small organic non-fullerene (NFAs) acceptor molecules with an A <sup>+</sup> B <sup>-</sup> A framework for high-performance organic solar cells: A DFT and TD-DFT method. Oxford Open Materials Science, 2022, 2, .	1.8	1
1658	Usefulness of Polar and Bulky Phosphonate Chain-End Solubilizing Groups in Polymeric Semiconductors. Macromolecules, 2022, 55, 4367-4377.	4.8	15
1659	Wide Bandgap D <sup>+</sup> A Copolymer Based on BDTTz Donor and TPD Acceptor for Polymer Solar Cells Using Fullerene and Non-Fullerene Acceptors. Energy Technology, 0, , .	3.8	1
1661	Triphenylamine substituted copper and zinc phthalocyanines as alternative hole-transporting materials for solution-processed perovskite solar cells. Dalton Transactions, 2022, 51, 9385-9396.	3.3	2
1662	2D Outer Side Chain-Incorporated Y Acceptors for Highly Efficient Organic Solar Cells with Nonhalogenated Solvent and Annealing-Free Process. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	9
1663	Organic materials based solar cells. Materials Today: Proceedings, 2022, , .	1.8	3
1664	Synthesis and photovoltaic properties of novel (X-DADAD) conjugated polymers with fluorene and phenylene blocks. Mendelev Communications, 2022, 32, 527-530.	1.6	1
1665	Morphology Evolution via a Generic Solvent Additive Concept Enables Large-Area All-Polymer Solar Cells with Negligible PCE Loss. Macromolecular Materials and Engineering, 2022, 307, .	3.6	3
1666	Conducting Polymer Nanocomposite for Energy Storage and Energy Harvesting Systems. Advances in Materials Science and Engineering, 2022, 2022, 1-23.	1.8	6
1667	Influence of Cathode Materials on the Efficiency of PTB7:PC <sub>70</sub> BM Bulk Heterojunction Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	2
1668	Chemical structure-based design of triboelectric materials for high-performance TENGs. Nano Energy, 2022, 103, 107847.	16.0	12
1669	The effect of rGO and chemical reduction under hydrazine on the structural, electrical and optical properties of nanostructured SnO <sub>2</sub> :F/rGO thin films. Physica B: Condensed Matter, 2022, 646, 414310.	2.7	6
1670	Molecular engineering of new electron acceptor for highly efficient solution processable organic solar cells using state-of-the-art polymer donor PffBT4T-2OD. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 437, 114492.	3.9	0
1671	Strategies Towards Enhancing Charge Collection in Polymer Photovoltaic Devices. , 2012, , 445-467.		0
1672	Effects of the processing variables on the optical properties of P3HT:PCBM absorber layer: A statistical point of view. Optical Materials, 2023, 137, 113514.	3.6	4

#	ARTICLE	IF	CITATIONS
1673	Biomass-Derived Materials for Interface Engineering in Organic/Perovskite Photovoltaic and Light-Emitting Devices. <i>Advanced Materials Technologies</i> , 2023, 8, .	5.8	6
1674	Development of rigidity-controlled terpolymer donors for high-performance and mechanically robust organic solar cells. <i>Journal of Materials Chemistry A</i> , 2023, 11, 4808-4817.	10.3	4
1675	A Simple Method to Produce an Aluminum Oxide-Passivated Tungsten Diselenide/n-Type Si Heterojunction Solar Cell with High Power Conversion Efficiency. <i>International Journal of Energy Research</i> , 2023, 2023, 1-11.	4.5	0
1676	Revealing and Eliminating the Light-Soaking Issue in Metal Oxide-Based Inverted Organic Solar Cells. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	3
1677	Preparation and evaluation of some nanocarbon (NC) based composites for optoelectronic applications. <i>Scientific Reports</i> , 2023, 13, .	3.3	1
1678	What defines the perovskite solar cell efficiency and stability: fullerene-based ETL structure or film morphology?. <i>Sustainable Energy and Fuels</i> , 2023, 7, 3893-3901.	4.9	1
1679	Cis/Trans Geometric Effect on the Electro-Optical Properties and Electron Injection in Indole-Based Squaraine Sensitizers: Quantum Chemical Investigations. <i>International Journal of Electrochemical Science</i> , 2015, 10, 1529-1542.	1.3	13
1680	Structure Modification to Tune the Electronic and Charge Transport Properties of Solar Cell Materials: Quantum Chemical Study. <i>International Journal of Electrochemical Science</i> , 2015, 10, 3600-3612.	1.3	9
1681	Comparative Study of the Structural, Electronic and Charge Transport Properties of Benzothiazole- and Indole-Based Squaraine Sensitizers. <i>International Journal of Electrochemical Science</i> , 2015, 10, 1822-1832.	1.3	10
1682	Integrated System Built for Small-Molecule Semiconductors via High-Throughput Approaches. <i>Journal of the American Chemical Society</i> , 2023, 145, 16517-16525.	13.7	4
1684	Designing CuInSe <sub>2</sub> quantum dot-based high-performance Schottky photodetector: a numerical study. <i>Physica Scripta</i> , 2023, 98, 095522.	2.5	0
1685	Hole Selectivity of n-Type Molybdenum Oxide Carrier Selective Layer for Commercial and Emerging Thin-Film Photovoltaics: A Critical Analysis of Interface Energetics and Ensuant Device Physics. <i>Energy Technology</i> , 2023, 11, .	3.8	1
1686	Effect of solvent role in electronic properties, band gap, electron injection barrier, charge transport nature, topology studies (ELF, LOL, RDC), and optical properties of azoles for multifunctional applications. <i>Journal of Molecular Liquids</i> , 2023, 390, 122956.	4.9	1
1687	Exploring the effect of electric field on charge-transfer states at non-fullerene D/A interface. <i>Journal of Molecular Liquids</i> , 2023, 390, 122962.	4.9	2
1688	DFT exploration: Optical and conduction band switching in indaceno donor moiety and its TiO <sub>2</sub> adsorbed complexes for an efficient ON-OFF ratio. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2023, 298, 116855.	3.5	2
1689	A Promising Design for Enhanced Performance of Perovskite Solar Cells: Metal Contacts with Shifted Work Function. , 2023, , .		0
1690	A Quantum Chemical Study of the Electrochemical Properties of a Series of Methanofullerenes. <i>Chemistry and Technology of Fuels and Oils</i> , 0, , .	0.5	0
1691	Design and analysis of benzene fused conjugated molecules for organic Photovoltaics: A TD-DFT study on electronic and quantum chemical properties. <i>Computational and Theoretical Chemistry</i> , 2024, 1231, 114437.	2.5	0



#	ARTICLE	IF	CITATIONS
1693	Exploring the Optical and Photovoltaic Changeover for Carbazole-Bridge <i>Push-Pull</i> Switches Against Their Local Excitations and Charge Transfers. Journal of Computational Biophysics and Chemistry, 2024, 23, 417-440.	1.7	0
1694	Effect of Anode Interfacial Modification by Self-Assembled Monolayers on the Organic Solar Cell Performance. ACS Omega, 0, , .	3.5	0
1695	3D Crystal Framework Regulation Enables Sea€Functionalized Small Molecule Acceptors Achieve Over 19% Efficiency. Advanced Energy Materials, 0, , .	19.5	0