Fengling Zhang

List of Publications by Year
in descending order

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184	17,352	11639	13758
papers	citations	70	129
		h-index	g-index

186	186	186	12390
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanism study on organic ternary photovoltaics with 18.3% certified efficiency: from molecule to device. Energy and Environmental Science, 2022, 15, 855-865.	15.6	62
2	MXene-based multifunctional smart fibers for wearable and portable electronics. Journal of Materials Chemistry A, 2022, 10, 12544-12550.	5.2	11
3	Nonfullerene acceptors from thieno[3,2-b]thiophene-fused naphthalene donor core with six-member-ring connection for efficient organic solar cells. Dyes and Pigments, 2021, 185, 108892.	2.0	14
4	Efficient Charge Transport Enables High Efficiency in Dilute Donor Organic Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 5039-5044.	2.1	41
5	Solution-processed solar-charging power units made of organic photovoltaic modules and asymmetric super-capacitors. Applied Physics Letters, 2021, 118, .	1.5	8
6	Tailorable Membraneâ€Penetrating Nanoplatform for Highly Efficient Organelleâ€Specific Localization. Small, 2021, 17, 2101440.	5.2	2
7	Unveiling structure-performance relationships from multi-scales in non-fullerene organic photovoltaics. Nature Communications, 2021, 12, 4627.	5.8	98
8	In Situ Optical Studies on Morphology Formation in Organic Photovoltaic Blends. Small Methods, 2021, 5, e2100585.	4.6	21
9	Solution-Processed Highly Efficient Semitransparent Organic Solar Cells with Low Donor Contents. ACS Applied Energy Materials, 2021, 4, 14335-14341.	2.5	19
10	Mo_{1.33}C MXene-Assisted PEDOT:PSS Hole Transport Layer for High-Performance Bulk-Heterojunction Polymer Solar Cells. ACS Applied Electronic Materials, 2020, 2, 163-169.	2.0	25
11	Suppressing Coâ€Crystallization of Halogenated Nonâ€Fullerene Acceptors for Thermally Stable Ternary Solar Cells. Advanced Functional Materials, 2020, 30, 2005462.	7.8	44
12	Fast Field-Insensitive Charge Extraction Enables High Fill Factors in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 38460-38469.	4.0	8
13	Near infrared electron acceptors with a photoresponse beyond 1000 nm for highly efficient organic solar cells. Journal of Materials Chemistry A, 2020, 8, 18154-18161.	5.2	49
14	High Thermoelectric Performance in nâ€Type Perylene Bisimide Induced by the Soret Effect. Advanced Materials, 2020, 32, e2002752.	11.1	53
15	Thermoelectric Materials: High Thermoelectric Performance in nâ€Type Perylene Bisimide Induced by the Soret Effect (Adv. Mater. 45/2020). Advanced Materials, 2020, 32, 2070335.	11.1	1
16	Asymmetric Electron Acceptors for Highâ€Efficiency and Lowâ€Energyâ€Loss Organic Photovoltaics. Advanced Materials, 2020, 32, e2001160.	11.1	246
17	Roles of Acceptor Guests in Tuning the Organic Solar Cell Property Based on an Efficient Binary Material System with a Nearly Zero Hole-Transfer Driving Force. Chemistry of Materials, 2020, 32, 5182-5191.	3.2	22
18	Electric Field Facilitating Hole Transfer in Non-Fullerene Organic Solar Cells with a Negative HOMO Offset. Journal of Physical Chemistry C, 2020, 124, 15132-15139.	1.5	26

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19	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. Nano Energy, 2020, 75, 105032.	8.2	34
20	Encapsulation Effect on Performance and Stability of Organic Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000293.	1.9	13
21	Light-Up Lipid Droplets Dynamic Behaviors Using a Red-Emitting Fluorogenic Probe. Analytical Chemistry, 2020, 92, 3613-3619.	3.2	104
22	A flexible semitransparent photovoltaic supercapacitor based on water-processed MXene electrodes. Journal of Materials Chemistry A, 2020, 8, 5467-5475.	5.2	79
23	Molecular and Energetic Order Dominate the Photocurrent Generation Process in Organic Solar Cells with Small Energetic Offsets. ACS Energy Letters, 2020, 5, 589-596.	8.8	36
24	Flexible Solidâ€State Asymmetric Supercapacitors with Enhanced Performance Enabled by Freeâ€Standing MXeneâ^'Biopolymer Nanocomposites and Hierarchical Grapheneâ^'RuO_x Paper Electrodes. Batteries and Supercaps, 2020, 3, 604-610.	2.4	19
25	A Comparative Study on Hole Transfer Inversely Correlated with Driving Force in Two Non-Fullerene Organic Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 4110-4116.	2.1	21
26	Individual nanostructure optimization in donor and acceptor phases to achieve efficient quaternary organic solar cells. Nano Energy, 2019, 66, 104176.	8.2	14
27	Revealing the Critical Role of the HOMO Alignment on Maximizing Current Extraction and Suppressing Energy Loss in Organic Solar Cells. IScience, 2019, 19, 883-893.	1.9	68
28	Oneâ€Step Bladeâ€Coated Highly Efficient Nonfullerene Organic Solar Cells with a Selfâ€Assembled Interfacial Layer Enabled by Solvent Vapor Annealing. Solar Rrl, 2019, 3, 1900179.	3.1	19
29	Organic Polymer Electronics â€“ A Special Issue in Honor of Prof. Olle InganÃs. Advanced Materials, 2019, 31, 1901940.	11.1	1
30	Limitations and Perspectives on Tripletâ€Materialâ€Based Organic Photovoltaic Devices. Advanced Materials, 2019, 31, e1900690.	11.1	50
31	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. Nano Energy, 2019, 60, 734-742.	8.2	124
32	A diketopyrrolopyrrole-based macrocyclic conjugated molecule for organic electronics. Journal of Materials Chemistry C, 2019, 7, 3802-3810.	2.7	21
33	Manipulate Micrometer Surface and Nanometer Bulk Phase Separation Structures in the Active Layer of Organic Solar Cells via Synergy of Ultrasonic and High-Pressure Gas Spraying. ACS Applied Materials & Interfaces, 2019, 11, 10777-10784.	4.0	17
34	Investigation on voltage loss in organic triplet photovoltaic devices based on Ir complexes. Journal of Materials Chemistry C, 2019, 7, 15049-15056.	2.7	11
35	Printed Nonfullerene Organic Solar Cells with the Highest Efficiency of 9.5%. Advanced Energy Materials, 2018, 8, 1701942.	10.2	99
36	A Freeâ€Standing Highâ€Output Power Density Thermoelectric Device Based on Structureâ€Ordered PEDOT:PSS. Advanced Electronic Materials, 2018, 4, 1700496.	2.6	73

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37	Fast switching polymeric electrochromics with facile processed water dispersed nanoparticles. Nano Energy, 2018, 47, 123-129.	8.2	23
38	Polymer Solar Cells. Green Chemistry and Sustainable Technology, 2018, , 45-108.	0.4	1
39	Highâ€Performance Ultrathin Flexible Solidâ€State Supercapacitors Based on Solution Processable Mo_{1.33}C MXene and PEDOT:PSS. Advanced Functional Materials, 2018, 28, 1703808.	7.8	196
40	Flexible double-cross-linked cellulose-based hydrogel and aerogel membrane for supercapacitor separator. Journal of Materials Chemistry A, 2018, 6, 24468-24478.	5.2	98
41	Enhanced performance and stability of inverted planar perovskite solar cells by incorporating 1,6-diaminohexane dihydrochloride additive. Solar Energy Materials and Solar Cells, 2018, 188, 140-148.	3.0	23
42	High-efficiency small-molecule ternary solar cells with a hierarchical morphology enabled by synergizing fullerene and non-fullerene acceptors. Nature Energy, 2018, 3, 952-959.	19.8	558
43	Effect of Side Groups on the Photovoltaic Performance Based on Porphyrinâ€“Perylene Bisimide Electron Acceptors. ACS Applied Materials & Interfaces, 2018, 10, 32454-32461.	4.0	21
44	Light-induced degradation of fullerenes in organic solar cells: a case study on TQ1:PC₇₁BM. Journal of Materials Chemistry A, 2018, 6, 11884-11889.	5.2	27
45	Design rules for minimizing voltage losses in high-efficiency organic solar cells. Nature Materials, 2018, 17, 703-709.	13.3	701
46	Charge Transfer Dynamics and Device Performance of Environmentally Friendly Processed Nonfullerene Organic Solar Cells. ACS Applied Energy Materials, 2018, 1, 4776-4785.	2.5	28
47	Roll-to-Roll Slot-Die-Printed Polymer Solar Cells by Self-Assembly. ACS Applied Materials & Interfaces, 2018, 10, 22485-22494.	4.0	27
48	Laminated Free Standing PEDOT:PSS Electrode for Solution Processed Integrated Photocapacitors via Hydrogenâ€Bond Interaction. Advanced Materials Interfaces, 2017, 4, 1700704.	1.9	26
49	The trade-off between electrochromic stability and contrast of a thiopheneâ€”Quinoxaline copolymer. Electrochimica Acta, 2017, 253, 530-535.	2.6	21
50	Performance limitations in thieno[3,4-c]pyrrole-4,6-dione-based polymer:ITIC solar cells. Physical Chemistry Chemical Physics, 2017, 19, 23990-23998.	1.3	29
51	â€œDouble-Cableâ€•Conjugated Polymers with Linear Backbone toward High Quantum Efficiencies in Single-Component Polymer Solar Cells. Journal of the American Chemical Society, 2017, 139, 18647-18656.	6.6	119
52	Dual Function of UV/Ozone Plasma-Treated Polymer in Polymer/Metal Hybrid Electrodes and Semitransparent Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 44656-44666.	4.0	25
53	A fused-ring based electron acceptor for efficient non-fullerene polymer solar cells with small HOMO offset. Nano Energy, 2016, 27, 430-438.	8.2	125
54	Fast charge separation in a non-fullerene organic solar cell with a small driving force. Nature Energy, 2016, 1, .	19.8	1,167

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55	Insights into the working mechanism of cathode interlayers in polymer solar cells via [(C₈H₁₇)₄N]₄[SiW₁₂O₄₀]. Journal of Materials Chemistry A, 2016, 4, 19189-19196.	5.2	42
56	Development of polymerâ€“fullerene solar cells. National Science Review, 2016, 3, 222-239.	4.6	78
57	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.	1.7	8
58	Thin Films: Ethanedithiol Treatment of Solution-Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics (Adv. Energy Mater. 5/2015). Advanced Energy Materials, 2015, 5, n/a-n/a.	10.2	1
59	A New Fullereneâ€Free Bulkâ€Heterojunction System for Efficient Highâ€Voltage and Highâ€Fill Factor Solutionâ€Processed Organic Photovoltaics. Advanced Materials, 2015, 27, 1900-1907.	11.1	84
60	Modulating molecular aggregation by facile heteroatom substitution of diketopyrrolopyrrole based small molecules for efficient organic solar cells. Journal of Materials Chemistry A, 2015, 3, 24349-24357.	5.2	31
61	Electrophoretic deposited oxide thin films as charge transporting interlayers for solution-processed optoelectronic devices: the case of ZnO nanocrystals. RSC Advances, 2015, 5, 8216-8222.	1.7	9
62	Ethanedithiol Treatment of Solutionâ€Processed ZnO Thin Films: Controlling the Intragap States of Electron Transporting Interlayers for Efficient and Stable Inverted Organic Photovoltaics. Advanced Energy Materials, 2015, 5, 1401606.	10.2	157
63	Integrated Design of Organic Hole Transport Materials for Efficient Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1401185.	10.2	59
64	Optoelectronic Devices: Lowâ€Temperature Combustionâ€Synthesized Nickel Oxide Thin Films as Holeâ€Transport Interlayers for Solutionâ€Processed Optoelectronic Devices (Adv. Energy Mater. 6/2014). Advanced Energy Materials, 2014, 4, .	10.2	0
65	Conjugated polymers with polar side chains in bulk heterojunction solar cell devices. Polymer International, 2014, 63, 22-30.	1.6	9
66	Random polyfluorene co-polymers designed for a better optical absorption coverage of the visible region of the electromagnetic spectrum. Bulletin of the Chemical Society of Ethiopia, 2014, 28, 121.	0.5	3
67	Lowâ€Temperature Combustionâ€Synthesized Nickel Oxide Thin Films as Holeâ€Transport Interlayers for Solutionâ€Processed Optoelectronic Devices. Advanced Energy Materials, 2014, 4, 1301460.	10.2	110
68	A Vertically Integrated Solarâ€Powered Electrochromic Window for Energy Efficient Buildings. Advanced Materials, 2014, 26, 4895-4900.	11.1	134
69	Printable Highly Conductive Conjugated Polymer Sensitized ZnO NCs as Cathode Interfacial Layer for Efficient Polymer Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 8237-8245.	4.0	46
70	Structureâ€“property relationships of oligothiopheneâ€“isoindigo polymers for efficient bulk-heterojunction solar cells. Energy and Environmental Science, 2014, 7, 361-369.	15.6	108
71	A Facile Method to Enhance Photovoltaic Performance of Benzodithiopheneâ€Isoindigo Polymers by Inserting Bithiophene Spacer. Advanced Energy Materials, 2014, 4, 1301455.	10.2	66
72	Synthesis of Unstable Colloidal Inorganic Nanocrystals through the Introduction of a Protecting Ligand. Nano Letters, 2014, 14, 3117-3123.	4.5	40

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73	Solution-processed bulk-heterojunction organic solar cells employing Ir complexes as electron donors. Journal of Materials Chemistry A, 2014, 2, 12390.	5.2	22
74	An alternating Dâ€“A1â€“Dâ€“A2 copolymer containing two electron-deficient moieties for efficient polymer solar cells. Journal of Materials Chemistry A, 2013, 1, 11141.	5.2	66
75	Plasmon-enhanced organic solar cells with solution-processed three-dimensional Ag nanosheets. Solar Energy Materials and Solar Cells, 2013, 109, 227-232.	3.0	10
76	Efficiency Enhancement of MEH-PPV:PCBM Solar Cells by Addition of Ditertutyl Peroxide as an Additive. Chinese Physics Letters, 2013, 30, 017202.	1.3	3
77	Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. Advanced Functional Materials, 2013, 23, 4262-4268.	7.8	76
78	Efficient polymer bulk heterojunction solar cells with cesium acetate as the cathode interfacial layer. Renewable Energy, 2013, 50, 565-569.	4.3	14
79	A triphenylamine-based four-armed molecule for solution-processed organic solar cells with high photo-voltage. Journal of Materials Chemistry A, 2013, 1, 4937.	5.2	12
80	In Situ Formation of MoO₃ in PEDOT:PSS Matrix: A Facile Way to Produce a Smooth and Less Hygroscopic Hole Transport Layer for Highly Stable Polymer Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 349-355.	10.2	118
81	Enhanced Performance of Inverted Polymer Solar Cells by Using Poly(ethylene oxide)-Modified ZnO as an Electron Transport Layer. ACS Applied Materials & Interfaces, 2013, 5, 380-385.	4.0	162
82	Conformational Disorder Enhances Solubility and Photovoltaic Performance of a Thiopheneâ€“Quinoxaline Copolymer. Advanced Energy Materials, 2013, 3, 806-814.	10.2	86
83	Fast Monolayer Adsorption and Slow Energy Transfer in CdSe Quantum Dot Sensitized ZnO Nanowires. Journal of Physical Chemistry A, 2013, 117, 5919-5925.	1.1	31
84	Optimizing ZnO nanoparticle surface for bulk heterojunction hybrid solar cells. Solar Energy Materials and Solar Cells, 2013, 118, 43-47.	3.0	44
85	Characterization and properties of a new amorphous small-molecule material containing both donor and acceptor moieties for photovoltaic application. Chemical Research in Chinese Universities, 2013, 29, 1193-1198.	1.3	1
86	Molecular orbital energy level modulation through incorporation of selenium and fluorine into conjugated polymers for organic photovoltaic cells. Journal of Materials Chemistry A, 2013, 1, 13422.	5.2	31
87	Surface states of ZnO nanoparticles effect on the performance of inverted-organic solar cells. Journal of Renewable and Sustainable Energy, 2013, 5, 053106.	0.8	8
88	Enhanced Performance and Stability in Polymer Photovoltaic Cells Using Ultraviolet-Treated PEDOT:PSS. Chinese Physics Letters, 2013, 30, 077201.	1.3	12
89	Inverted indium-tin-oxide-free cone-shaped polymer solar cells for light trapping. Applied Physics Letters, 2012, 100, 213901.	1.5	25
90	Synthesis and characterization of benzodithiopheneâ€“isoindigo polymers for solar cells. Journal of Materials Chemistry, 2012, 22, 2306-2314.	6.7	156

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91	Influences of Surface Roughness of ZnO Electron Transport Layer on the Photovoltaic Performance of Organic Inverted Solar Cells. Journal of Physical Chemistry C, 2012, 116, 24462-24468.	1.5	126
92	Quantification of Quantum Efficiency and Energy Losses in Low Bandgap Polymer:Fullerene Solar Cells with High Openâ€Circuit Voltage. Advanced Functional Materials, 2012, 22, 3480-3490.	7.8	190
93	Semiâ€Transparent Tandem Organic Solar Cells with 90% Internal Quantum Efficiency. Advanced Energy Materials, 2012, 2, 1467-1476.	10.2	109
94	Alternating Copolymers and Alternative Device Geometries for Organic Photovoltaics. Ambio, 2012, 41, 138-142.	2.8	9
95	Synthesis and photovoltaic behaviors of benzothiadiazole- and triphenylamine-based alternating copolymers. Polymer, 2012, 53, 324-332.	1.8	17
96	9-Alkylidene-9H-Fluorene-Containing Polymer for High-Efficiency Polymer Solar Cells. Macromolecules, 2011, 44, 7617-7624.	2.2	99
97	An Easily Accessible Isoindigo-Based Polymer for High-Performance Polymer Solar Cells. Journal of the American Chemical Society, 2011, 133, 14244-14247.	6.6	363
98	Side-Chain Architectures of 2,7-Carbazole and Quinoxaline-Based Polymers for Efficient Polymer Solar Cells. Macromolecules, 2011, 44, 2067-2073.	2.2	119
99	An isoindigo-based low band gap polymer for efficient polymer solar cells with high photo-voltage. Chemical Communications, 2011, 47, 4908.	2.2	134
100	Consensus stability testing protocols for organic photovoltaic materials and devices. Solar Energy Materials and Solar Cells, 2011, 95, 1253-1267.	3.0	812
101	Lateral Phase Separation Gradients in Spinâ€Coated Thin Films of Highâ€Performance Polymer:Fullerene Photovoltaic Blends. Advanced Functional Materials, 2011, 21, 3169-3175.	7.8	49
102	The Effect of additive on performance and shelf-stability of HSX-1/PCBM photovoltaic devices. Organic Electronics, 2011, 12, 1544-1551.	1.4	58
103	Enhanced performance and stability in polymer photovoltaic cells using lithium benzoate as cathode interfacial layer. Solar Energy Materials and Solar Cells, 2011, 95, 1243-1247.	3.0	35
104	Enhance performance of organic solar cells based on an isoindigo-based copolymer by balancing absorption and miscibility of electron acceptor. Applied Physics Letters, 2011, 99, 143302.	1.5	45
105	Mobility and fill factor correlation in geminate recombination limited solar cells. Journal of Applied Physics, 2011, 110, .	1.1	58
106	Mixed solvents for reproducible photovoltaic bulk heterojunctions. Journal of Photonics for Energy, 2011, 1, 011122.	0.8	9
107	Low bandgap polymers synthesized by FeCl3 oxidative polymerization. Solar Energy Materials and Solar Cells, 2010, 94, 1275-1281.	3.0	56
108	Rhenium oxide as the interfacial buffer layer for polymer photovoltaic cells. Optoelectronics Letters, 2010, 6, 176-178.	0.4	18

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109	Black Polymers in Bulk-Heterojunction Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1565-1572.	1.9	11
110	Bipolar Charge Transport in Fullerene Molecules in a Bilayer and Blend of Polyfluorene Copolymer and Fullerene. Advanced Materials, 2010, 22, 1008-1011.	11.1	16
111	Polymer Photovoltaics with Alternating Copolymer/Fullerene Blends and Novel Device Architectures. Advanced Materials, 2010, 22, E100-16.	11.1	100
112	An Easily Synthesized Blue Polymer for Highâ€Performance Polymer Solar Cells. Advanced Materials, 2010, 22, 5240-5244.	11.1	435
113	Tailoring side chains of low band gap polymers for high efficiency polymer solar cells. Polymer, 2010, 51, 3031-3038.	1.8	90
114	Effect of cathode buffer layer on the stability of polymer bulk heterojunction solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1831-1834.	3.0	60
115	Poly(4,8â€bis(2â€ethylhexyloxy)benzo[1,2â€b:4,5â€bâ€²]dithiophene vinylene): Synthesis, optical and photovoltaic properties. Journal of Polymer Science Part A, 2010, 48, 1822-1829.	2.5	31
116	Solution-processed bulk heterojunction organic solar cells based on an oligothiophene derivative. Applied Physics Letters, 2010, 97, .	1.5	86
117	Solution-Processable Organic Molecule with Triphenylamine Core and Two Benzothiadiazole-Thiophene Arms for Photovoltaic Application. Journal of Physical Chemistry C, 2010, 114, 3701-3706.	1.5	97
118	Synthesis and characterization of three small band gap conjugated polymers for solar cell applications. Polymer Chemistry, 2010, 1, 1272.	1.9	18
119	Small Band Gap Polymers Synthesized via a Modified Nitration of 4,7-Dibromo-2,1,3-benzothiadiazole. Organic Letters, 2010, 12, 4470-4473.	2.4	79
120	Geminate Charge Recombination in Polymer/Fullerene Bulk Heterojunction Films and Implications for Solar Cell Function. Journal of the American Chemical Society, 2010, 132, 12440-12451.	6.6	130
121	On the Dissociation Efficiency of Charge Transfer Excitons and Frenkel Excitons in Organic Solar Cells: A Luminescence Quenching Study. Journal of Physical Chemistry C, 2010, 114, 21824-21832.	1.5	122
122	Ultrafast conductivity in a low-band-gap polyphenylene and fullerene blend studied by terahertz spectroscopy. Physical Review B, 2009, 79, .	1.1	32
123	Electron injection behavior from the magnesium electrode into a family of electron-transporting amorphous molecular materials, a,ï‰-bis(dimesitylboryl)oligothiophene. , 2009, , .		1
124	Observation of a Charge Transfer State in Lowâ€Bandgap Polymer/Fullerene Blend Systems by Photoluminescence and Electroluminescence Studies. Advanced Functional Materials, 2009, 19, 3293-3299.	7.8	71
125	Device Performance of APFOâ€3/PCBM Solar Cells with Controlled Morphology. Advanced Materials, 2009, 21, 4398-4403.	11.1	52
126	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. Solar Energy Materials and Solar Cells, 2009, 93, 1968-1977.	3.0	205

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127	Inverted and transparent polymer solar cells prepared with vacuum-free processing. Solar Energy Materials and Solar Cells, 2009, 93, 497-500.	3.0	148
128	Electroluminescence from Charge Transfer States in Polymer Solar Cells. Journal of the American Chemical Society, 2009, 131, 11819-11824.	6.6	338
129	A Planar Copolymer for High Efficiency Polymer Solar Cells. Journal of the American Chemical Society, 2009, 131, 14612-14613.	6.6	407
130	Tuning Work Function of Noble Metals As Promising Cathodes in Organic Electronic Devices. Chemistry of Materials, 2009, 21, 2798-2802.	3.2	21
131	Benzothiadiazole-Based Linear and Star Molecules: Design, Synthesis, and Their Application in Bulk Heterojunction Organic Solar Cells. Chemistry of Materials, 2009, 21, 5327-5334.	3.2	137
132	Nanomorphology of Bulk Heterojunction Organic Solar Cells in 2D and 3D Correlated to Photovoltaic Performance. Macromolecules, 2009, 42, 4646-4650.	2.2	45
133	Alternating Polyfluorenes Collect Solar Light in Polymer Photovoltaics. Accounts of Chemical Research, 2009, 42, 1731-1739.	7.6	237
134	Synthesis, Characterization, and Devices of a Series of Alternating Copolymers for Solar Cells. Chemistry of Materials, 2009, 21, 3491-3502.	3.2	118
135	Alternating copolymers of fluorene and donorâ€“acceptorâ€“donor segments designed for miscibility in bulk heterojunction photovoltaics. Journal of Materials Chemistry, 2009, 19, 5359.	6.7	28
136	Structure-property relationships of small bandgap conjugated polymers for solar cells. Dalton Transactions, 2009, , 10032.	1.6	71
137	Exciton dynamics in alternating polyfluorene/fullerene blends. Chemical Physics, 2008, 350, 14-22.	0.9	28
138	High photovoltage achieved in low band gap polymer solar cells by adjusting energy levels of a polymer with the LUMOs of fullerene derivatives. Journal of Materials Chemistry, 2008, 18, 5468.	6.7	137
139	Charge Carrier Dynamics in Alternating Polyfluorene Copolymer:Fullerene Blends Probed by Terahertz Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 6558-6563.	1.5	34
140	Investigation on polymer anode design for flexible polymer solar cells. Applied Physics Letters, 2008, 92, 233308.	1.5	142
141	Integration of amyloid nanowires in organic solar cells. Applied Physics Letters, 2008, 93, 023307.	1.5	44
142	Multifolded polymer solar cells on flexible substrates. Applied Physics Letters, 2008, 93, .	1.5	67
143	Geminate Charge Recombination in Alternating Polyfluorene Copolymer/Fullerene Blends. Journal of the American Chemical Society, 2007, 129, 8466-8472.	6.6	146
144	Folded reflective tandem polymer solar cell doubles efficiency. Applied Physics Letters, 2007, 91, .	1.5	124

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145	Stoichiometry, mobility, and performance in bulk heterojunction solar cells. Applied Physics Letters, 2007, 91, 071108.	1.5	52
146	A New Donorâ€“Acceptorâ€“Donor Polyfluorene Copolymer with Balanced Electron and Hole Mobility. Advanced Functional Materials, 2007, 17, 3836-3842.	7.8	280
147	Enhancing the Photovoltage of Polymer Solar Cells by Using a Modified Cathode. Advanced Materials, 2007, 19, 1835-1838.	11.1	251
148	A Conjugated Polymer for Near Infrared Optoelectronic Applications. Advanced Materials, 2007, 19, 3308-3311.	11.1	154
149	New low band gap alternating polyfluorene copolymer-based photovoltaic cells. Solar Energy Materials and Solar Cells, 2007, 91, 1010-1018.	3.0	86
150	Improvements of fill factor in solar cells based on blends of polyfluorene copolymers as electron donors. Thin Solid Films, 2007, 515, 3126-3131.	0.8	41
151	Blue light-emitting diodes based on novel polyfluorene copolymers. Journal of Luminescence, 2007, 122-123, 610-613.	1.5	3
152	Charge formation and transport in bulk-heterojunction solar cells based on alternating polyfluorene copolymers blended with fullerenes. Organic Electronics, 2006, 7, 235-242.	1.4	59
153	A polymer photodiode using vapour-phase polymerized PEDOT as an anode. Solar Energy Materials and Solar Cells, 2006, 90, 133-141.	3.0	76
154	Theoretical models and experimental results on the temperature dependence of polyfluorene solar cells. Solar Energy Materials and Solar Cells, 2006, 90, 1607-1614.	3.0	8
155	Influence of Solvent Mixing on the Morphology and Performance of Solar Cells Based on Polyfluorene Copolymer/Fullerene Blends. Advanced Functional Materials, 2006, 16, 667-674.	7.8	439
156	Low-Bandgap Alternating Fluorene Copolymer/Methanofullerene Heterojunctions in Efficient Near-Infrared Polymer Solar Cells. Advanced Materials, 2006, 18, 2169-2173.	11.1	320
157	Influence of solvents and substrates on the morphology and the performance of low-bandgap polyfluorene: PCBM photovoltaic devices. , 2006, 6192, 339.		5
158	Bipolar transport observed through extraction currents on organic photovoltaic blend materials. Applied Physics Letters, 2006, 89, 142111.	1.5	22
159	Polymer Solar Cells Based on a Low-Bandgap Fluorene Copolymer and a Fullerene Derivative with Photocurrent Extended to 850â€‰nm. Advanced Functional Materials, 2005, 15, 745-750.	7.8	227
160	Photoelectron Spectroscopy of the Contact between the Cathode and the Active Layers in Plastic Solar Cells: The Role of LiF. Japanese Journal of Applied Physics, 2005, 44, 3695-3701.	0.8	106
161	Design, Synthesis and Properties of Low Band Gap Polyfluorenes for Photovoltaic Devices. Synthetic Metals, 2005, 154, 53-56.	2.1	90
162	Influence of buffer layers on the performance of polymer solar cells. Applied Physics Letters, 2004, 84, 3906-3908.	1.5	113

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163	Ultrafast light-induced charge pair formation dynamics in poly[3-(2â€²-methoxy-5â€²octylphenyl)thiophene]. Physical Review B, 2004, 70, .	1.1	32
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