

Samson A Jenekhe

List of Publications by Year in descending order

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212
papers

23,301
citations

4641

85
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7931

149
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217
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217
docs citations

217
times ranked

15579
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Transport Materials for Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2004, 16, 4556-4573.	3.2	1,519
2	Excimers and Exciplexes of Conjugated Polymers. <i>Science</i> , 1994, 265, 765-768.	6.0	1,263
3	New Conjugated Polymers with Donor-Acceptor Architectures: Synthesis and Photophysics of Carbazole-Quinoline and Phenothiazine-Quinoline Copolymers and Oligomers Exhibiting Large Intramolecular Charge Transfer. <i>Macromolecules</i> , 2001, 34, 7315-7324.	2.2	735
4	One-Dimensional Nanostructures of π -Conjugated Molecular Systems: Assembly, Properties, and Applications from Photovoltaics, Sensors, and Nanophotonics to Nanoelectronics. <i>Chemistry of Materials</i> , 2011, 23, 682-732.	3.2	617
5	High Electron Mobility in Ladder Polymer Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2003, 125, 13656-13657.	6.6	495
6	7.7% Efficient All-Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 4578-4584.	11.1	414
7	Perylenediimide Nanowires and Their Use in Fabricating Field-Effect Transistors and Complementary Inverters. <i>Nano Letters</i> , 2007, 7, 2847-2853.	4.5	410
8	n-Type Semiconducting Naphthalene Diimide-Perylene Diimide Copolymers: Controlling Crystallinity, Blend Morphology, and Compatibility Toward High-Performance All-Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 4424-4434.	6.6	374
9	All-Polymer Solar Cells with 3.3% Efficiency Based on Naphthalene Diimide-Selenophene Copolymer Acceptor. <i>Journal of the American Chemical Society</i> , 2013, 135, 14960-14963.	6.6	363
10	Conjugated Donor-Acceptor Copolymer Semiconductors with Large Intramolecular Charge Transfer: Synthesis, Optical Properties, Electrochemistry, and Field Effect Carrier Mobility of Thienopyrazine-Based Copolymers. <i>Macromolecules</i> , 2006, 39, 8712-8719.	2.2	355
11	Highly Efficient Solar Cells Based on Poly(3-butylthiophene) Nanowires. <i>Journal of the American Chemical Society</i> , 2008, 130, 5424-5425.	6.6	333
12	Electrochemical Properties and Electronic Structures of Conjugated Polyquinolines and Polyanthrazolines. <i>Chemistry of Materials</i> , 1996, 8, 579-589.	3.2	325
13	Electroluminescence of Multicomponent Conjugated Polymers. 1. Roles of Polymer/Polymer Interfaces in Emission Enhancement and Voltage-Tunable Multicolor Emission in Semiconducting Polymer/Polymer Heterojunctions. <i>Macromolecules</i> , 2000, 33, 2069-2082.	2.2	285
14	High-Mobility Ambipolar Transistors and High-Gain Inverters from a Donor-Acceptor Copolymer Semiconductor. <i>Advanced Materials</i> , 2010, 22, 478-482.	11.1	284
15	Polydisperse Aggregates of ZnO Nanocrystallites: A Method for Energy Conversion Efficiency Enhancement in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2008, 18, 1654-1660.	7.8	278
16	Efficient Solar Cells from Layered Nanostructures of Donor and Acceptor Conjugated Polymers. <i>Chemistry of Materials</i> , 2004, 16, 4647-4656.	3.2	276
17	New n-Type Organic Semiconductors: Synthesis, Single Crystal Structures, Cyclic Voltammetry, Photophysics, Electron Transport, and Electroluminescence of a Series of Diphenylanthrazolines. <i>Journal of the American Chemical Society</i> , 2003, 125, 13548-13558.	6.6	272
18	Fabrication of Field-Effect Transistors from Hexathiapentacene Single-Crystal Nanowires. <i>Nano Letters</i> , 2007, 7, 668-675.	4.5	272

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19	Electroluminescence and Photophysical Properties of Polyquinolines. <i>Macromolecules</i> , 1999, 32, 7422-7429.	2.2	264
20	Efficient photovoltaic cells from semiconducting polymer heterojunctions. <i>Applied Physics Letters</i> , 2000, 77, 2635-2637.	1.5	251
21	Nonfullerene Polymer Solar Cells with 8.5% Efficiency Enabled by a New Highly Twisted Electron Acceptor Dimer. <i>Advanced Materials</i> , 2016, 28, 124-131.	11.1	250
22	Phthalimide-Based Polymers for High Performance Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2009, 131, 7206-7207.	6.6	243
23	Naphthalene Diimide-Based Polymer Semiconductors: Synthesis, Structure–Property Correlations, and n-Channel and Ambipolar Field-Effect Transistors. <i>Chemistry of Materials</i> , 2012, 24, 1434-1442.	3.2	237
24	Electrospun Nanofibers of Blends of Conjugated Polymers: Morphology, Optical Properties, and Field-Effect Transistors. <i>Macromolecules</i> , 2005, 38, 4705-4711.	2.2	224
25	Beyond Fullerenes: Design of Nonfullerene Acceptors for Efficient Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2014, 136, 14589-14597.	6.6	213
26	New Thiophene-Linked Conjugated Poly(azomethine)s: Theoretical Electronic Structure, Synthesis, and Properties. <i>Macromolecules</i> , 2005, 38, 1958-1966.	2.2	208
27	Fluorenone-Containing Polyfluorenes and Oligofluorenes: Photophysics, Origin of the Green Emission and Efficient Green Electroluminescence. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8689-8701.	1.2	207
28	Blue Light-Emitting Diodes with Good Spectral Stability Based on Blends of Poly(9,9-dioctylfluorene): Interplay between Morphology, Photophysics, and Device Performance. <i>Macromolecules</i> , 2003, 36, 5285-5296.	2.2	204
29	Efficient blue luminescence of a conjugated polymer exciplex. <i>Macromolecules</i> , 1994, 27, 739-742.	2.2	191
30	Enhanced Nonlinear Optical Response of Composite Materials. <i>Physical Review Letters</i> , 1995, 74, 1871-1874.	2.9	190
31	Crystalline Diblock Conjugated Copolymers: Synthesis, Self-Assembly, and Microphase Separation of Poly(3-butylthiophene)- <i>b</i> -poly(3-octylthiophene). <i>Macromolecules</i> , 2009, 42, 2317-2320.	2.2	190
32	Quinoxaline-Containing Polyfluorenes: Synthesis, Photophysics, and Stable Blue Electroluminescence. <i>Macromolecules</i> , 2005, 38, 1553-1563.	2.2	189
33	Effects of Side Chains on Thiazolothiazole-Based Copolymer Semiconductors for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 854-860.	10.2	183
34	Regioregular Poly(3-pentylthiophene): Synthesis, Self-Assembly of Nanowires, High-Mobility Field-Effect Transistors, and Efficient Photovoltaic Cells. <i>Macromolecules</i> , 2009, 42, 8817-8826.	2.2	178
35	n-Type Conjugated Oligoquinoline and Oligoquinoxaline with Triphenylamine Endgroups: Efficient Ambipolar Light Emitters for Device Applications. <i>Chemistry of Materials</i> , 2006, 18, 4924-4932.	3.2	172
36	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.	3.2	171

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37	Polymer Nanowire/Fullerene Bulk Heterojunction Solar Cells: How Nanostructure Determines Photovoltaic Properties. <i>ACS Nano</i> , 2010, 4, 1861-1872.	7.3	170
38	Alkyl chain length dependence of the field-effect carrier mobility in regioregular poly(3-alkylthiophene)s. <i>Synthetic Metals</i> , 2005, 148, 169-173.	2.1	165
39	Finite Size Effects on Electroluminescence of Nanoscale Semiconducting Polymer Heterojunctions. <i>Chemistry of Materials</i> , 1997, 9, 409-412.	3.2	164
40	Non-Fullerene Acceptor-Based Bulk Heterojunction Polymer Solar Cells: Engineering the Nanomorphology via Processing Additives. <i>Advanced Energy Materials</i> , 2011, 1, 946-953.	10.2	161
41	All-Polymer Bulk Heterojunction Solar Cells with 4.8% Efficiency Achieved by Solution Processing from a Co-Solvent. <i>Advanced Materials</i> , 2014, 26, 6080-6085.	11.1	161
42	New conjugated polyanthrazolines containing thiophene moieties in the main chain. <i>Macromolecules</i> , 1991, 24, 6806-6808.	2.2	160
43	Self-Assembly, Molecular Packing, and Electron Transport in n-Type Polymer Semiconductor Nanobelts. <i>Chemistry of Materials</i> , 2008, 20, 4712-4719.	3.2	159
44	Polybenzobisazoles Are Efficient Electron Transport Materials for Improving the Performance and Stability of Polymer Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2002, 14, 4775-4780.	3.2	158
45	Fine-Tuning the 3D Structure of Nonfullerene Electron Acceptors Toward High-Performance Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 3266-3272.	11.1	158
46	Synthesis, Cyclic Voltammetric Studies, and Electrogenerated Chemiluminescence of a New Donor-Acceptor Molecule: 3,7-[Bis[4-phenyl-2-quinolyl]]-10-methylphenothiazine. <i>Journal of the American Chemical Society</i> , 2001, 123, 9112-9118.	6.6	156
47	Charge Photogeneration for a Series of Thiazolo-Thiazole Donor Polymers Blended with the Fullerene Electron Acceptors PCBM and ICBA. <i>Advanced Functional Materials</i> , 2013, 23, 3286-3298.	7.8	155
48	Synthesis and processing of heterocyclic polymers as electronic, optoelectronic, and nonlinear optical materials. 2. New series of conjugated rigid-rod polyquinolines and polyanthrazolines. <i>Macromolecules</i> , 1993, 26, 895-905.	2.2	154
49	Bulk Heterojunction Solar Cells from Poly(3-butylthiophene)/Fullerene Blends: In Situ Self-Assembly of Nanowires, Morphology, Charge Transport, and Photovoltaic Properties. <i>Chemistry of Materials</i> , 2008, 20, 6199-6207.	3.2	154
50	Tetraazabenzodifluoranthene Diimides: Building Blocks for Solution-Processable n-Type Organic Semiconductors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5513-5517.	7.2	154
51	n-Type Conjugated Dendrimers: Convergent Synthesis, Photophysics, Electroluminescence, and Use as Electron-Transport Materials for Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2004, 16, 4657-4666.	3.2	148
52	Complexation-mediated solubilization and processing of rigid-chain and ladder polymers in aprotic organic solvents. <i>Macromolecules</i> , 1990, 23, 4419-4429.	2.2	147
53	Thiophene-Linked Polyphenylquinoxaline: A New Electron Transport Conjugated Polymer for Electroluminescent Devices. <i>Macromolecules</i> , 1999, 32, 3824-3826.	2.2	147
54	The Role of Mesoscopic PCBM Crystallites in Solvent Vapor Annealed Copolymer Solar Cells. <i>ACS Nano</i> , 2009, 3, 627-636.	7.3	140

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55	High-Mobility n-Type Conjugated Polymers Based on Electron-Deficient Tetraazabenzodifluoranthene Diimide for Organic Electronics. <i>Journal of the American Chemical Society</i> , 2013, 135, 14920-14923.	6.6	140
56	Organometallic Donor-acceptor Conjugated Polymer Semiconductors: Tunable Optical, Electrochemical, Charge Transport, and Photovoltaic Properties. <i>Macromolecules</i> , 2009, 42, 671-681.	2.2	135
57	New Random Copolymer Acceptors Enable Additive-Free Processing of 10.1% Efficient All-Polymer Solar Cells with Near-Unity Internal Quantum Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 1162-1170.	8.8	134
58	Charge Carrier Mobility in Blends of Poly(9,9-dioctylfluorene) and Poly(3-hexylthiophene). <i>Macromolecules</i> , 2003, 36, 7759-7764.	2.2	131
59	Thieno[3,4-c]pyrrole-4,6-dione-Based Donor-acceptor Conjugated Polymers for Solar Cells. <i>Macromolecules</i> , 2011, 44, 269-277.	2.2	127
60	n-Type Naphthalene Diimide-Biselenophene Copolymer for All-Polymer Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2012, 45, 9056-9062.	2.2	123
61	Solar Cells Based on Block Copolymer Semiconductor Nanowires: Effects of Nanowire Aspect Ratio. <i>ACS Nano</i> , 2011, 5, 376-384.	7.3	121
62	A high-conductivity n-type polymeric ink for printed electronics. <i>Nature Communications</i> , 2021, 12, 2354.	5.8	120
63	Supramolecular Self-Assembly of Three-Dimensional Nanostructures and Microstructures: Microcapsules from Electroactive and Photoactive Rod-Coil-Rod Triblock Copolymers. <i>Macromolecules</i> , 2000, 33, 4610-4612.	2.2	119
64	Morphology and Field-Effect Mobility of Charge Carriers in Binary Blends of Poly(3-hexylthiophene) with Poly[2-methoxy-5-(2-ethylhexoxy)-1,4-phenylenevinylene] and Polystyrene. <i>Macromolecules</i> , 2004, 37, 9835-9840.	2.2	115
65	Excited-state complexes of conjugated polymers. <i>Advanced Materials</i> , 1995, 7, 309-311.	11.1	112
66	Ground-state electron transfer in all-polymer donor-acceptor heterojunctions. <i>Nature Materials</i> , 2020, 19, 738-744.	13.3	111
67	Solution-Processed Highly Efficient Blue Phosphorescent Polymer Light-Emitting Diodes Enabled by a New Electron Transport Material. <i>Advanced Materials</i> , 2010, 22, 4744-4748.	11.1	110
68	Phenothiazine-Phenylquinoline Donor-acceptor Molecules: Effects of Structural Isomerism on Charge Transfer Photophysics and Electroluminescence. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19584-19594.	1.2	109
69	New Ambipolar Organic Semiconductors. 2. Effects of Electron Acceptor Strength on Intramolecular Charge Transfer Photophysics, Highly Efficient Electroluminescence, and Field-Effect Charge Transport of Phenoxazine-Based Donor-acceptor Materials. <i>Chemistry of Materials</i> , 2008, 20, 4212-4223.	3.2	106
70	New Soluble n-Type Conjugated Polymers for Use as Electron Transport Materials in Light-Emitting Diodes. <i>Macromolecules</i> , 2004, 37, 3554-3563.	2.2	105
71	Conjugated Donor-acceptor Copolymer Semiconductors. Synthesis, Optical Properties, Electrochemistry, and Field-Effect Carrier Mobility of Pyridopyrazine-Based Copolymers. <i>Macromolecules</i> , 2008, 41, 7021-7028.	2.2	105
72	Benzobisthiazole-Thiophene Copolymer Semiconductors: Synthesis, Enhanced Stability, Field-Effect Transistors, and Efficient Solar Cells. <i>Macromolecules</i> , 2009, 42, 8615-8618.	2.2	105

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73	Spin coating of conjugated polymers for electronic and optoelectronic applications. <i>Thin Solid Films</i> , 2005, 479, 254-260.	0.8	102
74	Benzobisthiazole-Based Donor-Acceptor Copolymer Semiconductors for Photovoltaic Cells and Highly Stable Field-Effect Transistors. <i>Macromolecules</i> , 2011, 44, 7207-7219.	2.2	101
75	Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymer-Fullerene Solar Cells While Electron Transfer Remains Active. <i>Advanced Functional Materials</i> , 2013, 23, 1238-1249.	7.8	101
76	Field-Effect Mobility of Charge Carriers in Blends of Regioregular Poly(3-alkylthiophene)s. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1749-1754.	1.2	100
77	Efficient solar cells based on a new phthalimide-based donor-acceptor copolymer semiconductor: morphology, charge-transport, and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2009, 19, 5303.	6.7	100
78	Enhanced Open Circuit Voltage and Efficiency of Donor-Acceptor Copolymer Solar Cells by Using Indene-C60 Bisadduct. <i>Chemistry of Materials</i> , 2012, 24, 1995-2001.	3.2	100
79	New Solution-Processable Electron Transport Materials for Highly Efficient Blue Phosphorescent OLEDs. <i>Advanced Functional Materials</i> , 2011, 21, 3889-3899.	7.8	98
80	Enhanced Performance of Bulk Heterojunction Solar Cells Using Block Copoly(3-alkylthiophene)s. <i>Chemistry of Materials</i> , 2010, 22, 2020-2026.	3.2	97
81	Synthesis and processing of heterocyclic polymers as electronic, optoelectronic, and nonlinear optical materials. 1. New conjugated rigid-rod benzobisthiazole polymers. <i>Chemistry of Materials</i> , 1992, 4, 1282-1290.	3.2	93
82	Plastic Electrochromic Devices: Electrochemical Characterization and Device Properties of a Phenothiazine-Phenylquinoline Donor-Acceptor Polymer. <i>Chemistry of Materials</i> , 2003, 15, 1264-1272.	3.2	92
83	Solution-Processed, Alkali Metal-Salt-Doped, Electron-Transport Layers for High-Performance Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2012, 22, 5126-5136.	7.8	89
84	All-Polymer Solar Cells with 9.4% Efficiency from Naphthalene Diimide-Biselenophene Copolymer Acceptor. <i>Chemistry of Materials</i> , 2018, 30, 6540-6548.	3.2	88
85	n-Channel Field-Effect Transistors from Blends of Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6129-6132.	1.2	87
86	Electronic structure and properties of alternating donor-acceptor conjugated copolymers: 3,4-Ethylenedioxythiophene (EDOT) copolymers and model compounds. <i>Polymer</i> , 2006, 47, 699-708.	1.8	87
87	Nanophase-Separated Blends of Acceptor and Donor Conjugated Polymers. Efficient Electroluminescence from Binary Polyquinoline/Poly(2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene) and Polyquinoline/Poly(3-octylthiophene) Blends. <i>Macromolecules</i> , 2003, 36, 6577-6587.	2.2	86
88	Influence of Molecular Weight on the Organic Electrochemical Transistor Performance of Ladder-Type Conjugated Polymers. <i>Advanced Materials</i> , 2022, 34, e2106235.	11.1	86
89	Regioregular Head-to-Tail Poly(4-alkylquinoline)s: Synthesis, Characterization, Self-Organization, Photophysics, and Electroluminescence of New n-Type Conjugated Polymers. <i>Macromolecules</i> , 2003, 36, 8958-8968.	2.2	85
90	Electroluminescence of Multicomponent Conjugated Polymers. 2. Photophysics and Enhancement of Electroluminescence from Blends of Polyquinolines. <i>Macromolecules</i> , 2002, 35, 382-393.	2.2	82

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91	Sequential Processing for Organic Photovoltaics: Design Rules for Morphology Control by Tailored Semi-Orthogonal Solvent Blends. <i>Advanced Energy Materials</i> , 2015, 5, 1402020.	10.2	82
92	Crystalline Random Conjugated Copolymers with Multiple Side Chains: Tunable Intermolecular Interactions and Enhanced Charge Transport and Photovoltaic Properties. <i>Macromolecules</i> , 2010, 43, 3306-3313.	2.2	81
93	Mesoscale Morphology and Charge Transport in Colloidal Networks of Poly(3-hexylthiophene). <i>Macromolecules</i> , 2011, 44, 3801-3809.	2.2	81
94	Effects of Molecular Structure on the Electroactive and Optical Properties of Conjugated Rigid-Rod Poly(benzobisazoles). <i>Chemistry of Materials</i> , 1995, 7, 672-682.	3.2	79
95	High-performance multilayered phosphorescent OLEDs by solution-processed commercial electron-transport materials. <i>Journal of Materials Chemistry</i> , 2012, 22, 4660.	6.7	79
96	Synthesis and processing of heterocyclic polymers as electronic, optoelectronic, and nonlinear optical materials. 3. New conjugated polyquinolines with electron-donor or -acceptor side groups. <i>Chemistry of Materials</i> , 1993, 5, 633-640.	3.2	78
97	Block Conjugated Copolymers: Toward Quantum-Well Nanostructures for Exploring Spatial Confinement Effects on Electronic, Optoelectronic, and Optical Phenomena. <i>Macromolecules</i> , 1996, 29, 6189-6192.	2.2	75
98	Self-Assembly of Polypeptide-Conjugated Polymer/Polypeptide Triblock Copolymers in Rod-Rod and Coil-Coil Conformations. <i>Macromolecules</i> , 2008, 41, 1846-1852.	2.2	74
99	Photoinduced Charge Transfer and Polaron Dynamics in Polymer and Hybrid Photovoltaic Thin Films: Organic vs Inorganic Acceptors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24403-24410.	1.5	74
100	Polyfluorenes Containing Dibenzo[a,c]phenazine Segments: Synthesis and Efficient Blue Electroluminescence from Intramolecular Charge Transfer States. <i>Macromolecules</i> , 2007, 40, 804-813.	2.2	73
101	New n-type polymer semiconductors based on naphthalene diimide and selenophene derivatives for organic field-effect transistors. <i>Polymer Chemistry</i> , 2013, 4, 3187.	1.9	73
102	New Thiazolothiazole Copolymer Semiconductors for Highly Efficient Solar Cells. <i>Macromolecules</i> , 2011, 44, 6245-6248.	2.2	72
103	Electronic Properties and Field-Effect Transistors of Thiophene-Based Donor-Acceptor Conjugated Copolymers. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1835-1840.	2.0	71
104	Thin-film processing and optical properties of conjugated rigid-rod polyquinolines for nonlinear optical applications. <i>Chemistry of Materials</i> , 1992, 4, 95-104.	3.2	70
105	Efficient blue organic light-emitting diodes based on an oligoquinoline. <i>Applied Physics Letters</i> , 2005, 86, 061106.	1.5	70
106	New Poly(arylene vinylene)s Based on Diketopyrrolopyrrole for Ambipolar Transistors. <i>Chemistry of Materials</i> , 2011, 23, 4618-4624.	3.2	70
107	High Mobility Thiazole-Diketopyrrolopyrrole Copolymer Semiconductors for High Performance Field-Effect Transistors and Photovoltaic Devices. <i>Macromolecules</i> , 2012, 45, 9029-9037.	2.2	70
108	Polyethylenimine Interfacial Layers in Inverted Organic Photovoltaic Devices: Effects of Ethoxylation and Molecular Weight on Efficiency and Temporal Stability. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26167-26175.	4.0	70

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109	Nanolayered Heterojunctions of Donor and Acceptor Conjugated Polymers of Interest in Light Emitting and Photovoltaic Devices: A Photoinduced Electron Transfer at Polythiophene/Polyquinoline Interfaces. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2479-2482.	1.2	69
110	New Didecyloxyphenylene-acceptor Alternating Conjugated Copolymers: Synthesis, Properties, and Optoelectronic Device Applications. <i>Macromolecules</i> , 2008, 41, 6952-6959.	2.2	69
111	Modification of PCBM Crystallization via Incorporation of C ₆₀ in Polymer/Fullerene Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 514-522.	7.8	68
112	New Ambipolar Organic Semiconductors. 1. Synthesis, Single-Crystal Structures, Redox Properties, and Photophysics of Phenoxazine-Based Donor-acceptor Molecules. <i>Chemistry of Materials</i> , 2008, 20, 4200-4211.	3.2	67
113	Waveguiding in substrate supported and freestanding films of insoluble conjugated polymers. <i>Applied Physics Letters</i> , 1993, 62, 115-117.	1.5	65
114	Phenoxazine-Based Conjugated Polymers: A New Class of Organic Semiconductors for Field-Effect Transistors. <i>Macromolecules</i> , 2005, 38, 7983-7991.	2.2	65
115	Supramolecular Photophysics of Self-Assembled Block Copolymers Containing Luminescent Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6332-6335.	1.2	63
116	Side chain engineering of n-type conjugated polymer enhances photocurrent and efficiency of all-polymer solar cells. <i>Chemical Communications</i> , 2014, 50, 10801.	2.2	62
117	Small-Bandgap Conducting Polymers Based on Conjugated Poly(heteroarylene methines). 1. Precursor Poly(heteroarylene methylenes). <i>Macromolecules</i> , 1995, 28, 454-464.	2.2	60
118	Poly(3-hexylthiophene)-poly(3-cyclohexylthiophene): Synthesis, microphase separation, thin film transistors, and photovoltaic applications. <i>Journal of Polymer Science Part A</i> , 2010, 48, 614-626.	2.5	60
119	Efficient Phthalimide Copolymer-Based Bulk Heterojunction Solar Cells: How the Processing Additive Influences Nanoscale Morphology and Photovoltaic Properties. <i>Advanced Energy Materials</i> , 2012, 2, 575-582.	10.2	60
120	n-Channel polymer thin film transistors with long-term air-stability and durability and their use in complementary inverters. <i>Journal of Materials Chemistry</i> , 2011, 21, 16461.	6.7	59
121	A New Synthetic Route to Soluble Polyquinolines with Tunable Photophysical, Redox, and Electroluminescent Properties. <i>Macromolecules</i> , 2005, 38, 9539-9547.	2.2	58
122	Dithienopyrrole-quinoxaline/pyridopyrazine donor-acceptor polymers: synthesis and electrochemical, optical, charge-transport, and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 4971.	6.7	54
123	Charge generation and energy transfer in hybrid polymer/infrared quantum dot solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 769.	15.6	51
124	Third-Order Nonlinear Optical Properties of a Series of Systematically Designed Conjugated Rigid-Rod Polyquinolines. <i>Materials Research Society Symposia Proceedings</i> , 1992, 247, 253.	0.1	49
125	Poly(naphthalene diimide-bithiophene) Prepared by Direct (Hetero)arylation Polymerization for Efficient All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 5353-5361.	3.2	49
126	Conducting Ladder Polymers: An Insulator-to-Metal Transition and Evolution of Electronic Structure upon Protonation by Poly(styrenesulfonic Acid). <i>Journal of Physical Chemistry B</i> , 2002, 106, 11172-11177.	1.2	48

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127	Bis(Naphthalene Imide)diphenylanthrazolines: A New Class of Electron Acceptors for Efficient Nonfullerene Organic Solar Cells and Applicable to Multiple Donor Polymers. <i>Advanced Energy Materials</i> , 2015, 5, 1402041.	10.2	48
128	Nanowires of oligothiophene-functionalized naphthalene diimides: self assembly, morphology, and all-nanowire bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 24373.	6.7	47
129	Air-Stable Ambipolar Field-Effect Transistors and Complementary Logic Circuits from Solution-Processed n/p Polymer Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2974-2977.	4.0	46
130	Charge Transport in Poly(3-butylthiophene) Nanowires and Their Nanocomposites with an Insulating Polymer. <i>Macromolecules</i> , 2012, 45, 7514-7519.	2.2	44
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