Donal D C Bradley

List of Publications by Year
in descending order

605 papers	69,983 citations	828 118 h-index	759 250 g-index
609 all docs	609 docs citations	609 times ranked	31108 citing authors

#	Article	IF	Citations
1	Light-emitting diodes based on conjugated polymers. Nature, 1990, 347, 539-541.	28.3	10,985
2	Electroluminescence in conjugated polymers. Nature, 1999, 397, 121-128.	28.3	5,746
3	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene:fullerene solar cells. Nature Materials, 2006, 5, 197-203.	28.4	2,208
4	Efficient light-emitting diodes based on polymers with high electron affinities. Nature, 1993, 365, 628-630.	28.3	1,654
5	Morphology evolution via self-organization and lateral and vertical diffusion in polymer:fullerene solar cell blends. Nature Materials, 2008, 7, 158-164.	28.4	1,396
6	Strong excitonâ€“photon coupling in an organic semiconductor microcavity. Nature, 1998, 395, 53-55.	28.3	768
7	Mobility enhancement in conjugated polymer field-effect transistors through chain alignment in a liquid-crystalline phase. Applied Physics Letters, 2000, 77, 406-408.	3.4	767
8	Chemical tuning of electroluminescent copolymers to improve emission efficiencies and allow patterning. Nature, 1992, 356, 47-49.	28.3	748
9	Poly(pâ€phenylenevinylene) lightâ€emitting diodes: Enhanced electroluminescent efficiency through charge carrier confinement. Applied Physics Letters, 1992, 61, 2793-2795.	3.4	683
10	Electrochemical determination of the ionization potential and electron affinity of poly(9,9-dioctylfluorene). Applied Physics Letters, 1998, 73, 2453-2455.	3.4	666
11	Degradation of organic solar cells due to air exposure. Solar Energy Materials and Solar Cells, 2006, 90, 3520-3530.	6.2	660
12	Interplay of Physical Structure and Photophysics for a Liquid Crystalline Polyfluorene. Macromolecules, 1999, 32, 5810-5817.	5.0	627
13	High brightness and efficiency blue light-emitting polymer diodes. Applied Physics Letters, 1998, 73, 629-631.	3.4	624
14	Charge Carrier Formation in Polythiophene/Fullerene Blend Films Studied by Transient Absorption Spectroscopy. Journal of the American Chemical Society, 2008, 130, 3030-3042.	14.3	602
15	Device annealing effect in organic solar cells with blends of regioregular poly(3-hexylthiophene) and soluble fullerene. Applied Physics Letters, 2005, 86, 063502.	3.4	598
16	Angular Dependence of the Emission from a Conjugated Polymer Light-Emitting Diode: Implications for efficiency calculations. Advanced Materials, 1994, 6, 491-494.	21.7	582
17	A glass-forming conjugated main-chain liquid crystal polymer for polarized electroluminescence applications. Advanced Materials, 1997, 9, 798-802.	21.7	539
18	Measuring the Efficiency of Organic Light-Emitting Devices. Advanced Materials, 2003, 15, 1043-1048.	21.7	531

#	Article	IF	Citations
19	Hybrid Polymer/Zinc Oxide Photovoltaic Devices with Vertically Oriented ZnO Nanorods and an Amphiphilic Molecular Interface Layer. Journal of Physical Chemistry B, 2006, 110, 7635-7639.	2.7	522
20	Efficient Organic Solar Cells with Solutionâ€Processed Silver Nanowire Electrodes. Advanced Materials, 2011, 23, 4371-4375.	21.7	513
21	Space-charge limited conduction with traps in poly(phenylene vinylene) light emitting diodes. Journal of Applied Physics, 1997, 82, 6326-6342.	2.5	474
22	Experimental determination of the rate law for charge carrier decay in a polythiophene: Fullerene solar cell. Applied Physics Letters, 2008, 92, .	3.4	471
23	Investigation of the Effects of Doping and Post-Deposition Treatments on the Conductivity, Morphology, and Work Function of Poly(3,4-ethylenedioxythiophene)/Poly(styrene sulfonate) Films. Advanced Functional Materials, 2005, 15, 290-296.	15.2	469
24	Polarized Luminescence from Oriented Molecular Materials. Advanced Materials, 1999, 11, 895-905.	21.7	465
25	Nondispersive hole transport in an electroluminescent polyfluorene. Applied Physics Letters, 1998, 73, 1565-1567.	3.4	412
26	Bimolecular recombination losses in polythiophene: Fullerene solar cells. Physical Review B, 2008, 78, .	3.3	389
27	Chain geometry, solution aggregation and enhanced dichroism in the liquidcrystalline conjugated polymer poly(9,9-dioctylfluorene). Acta Polymerica, 1998, 49, 439-444.	0.9	383
28	Exciton versus band description of the absorption and luminescence spectra in poly(p-phenylenevinylene). Physical Review B, 1990, 42, 9830-9836.	3.3	364
29	Binary Organic Photovoltaic Blends: A Simple Rationale for Optimum Compositions. Advanced Materials, 2008, 20, 3510-3515.	21.7	364
30	Highâ€Performance Polymerâ€Small Molecule Blend Organic Transistors. Advanced Materials, 2009, 21, 1166-1171.	21.7	351
31	The Nature of In-Plane Skeleton Raman Modes of P3HT and Their Correlation to the Degree of Molecular Order in P3HT:PCBM Blend Thin Films. Journal of the American Chemical Society, 2011, 133, 9834-9843.	14.3	350
32	High Mobility Hole Transport Fluorene-Triarylamine Copolymers. Advanced Materials, 1999, 11, 241-246.	21.7	345
33	Precursor-route poly(p-phenylenevinylene): polymer characterisation and control of electronic properties. Journal Physics D: Applied Physics, 1987, 20, 1389-1410.	2.9	338
34	Photo-excitation in conjugated polymers. Journal Physics D: Applied Physics, 1987, 20, 1367-1384.	2.9	323
35	Room Temperature Polariton Emission from Strongly Coupled Organic Semiconductor Microcavities. Physical Review Letters, 1999, 82, 3316-3319.	7.9	311
36	Conjugated polymer electroluminescence. Synthetic Metals, 1993, 54, 401-415.	4.0	301

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37	The photovoltaic response in poly(p-phenylene vinylene) thin-film devices. Journal of Physics Condensed Matter, 1994, 6, 1379-1394.	1.8	300
38	Film morphology and photophysics of polyfluorene. Physical Review B, 2000, 62, 15604-15609.	3.3	300
39	Efficient Energy Transfer from Blue to Red in Tetraphenylporphyrin-Doped Poly(9,9-dioctylfluorene) Light-Emitting Diodes. Advanced Materials, 2000, 12, 58-62.	21.7	291
40	Synthesis and Properties of Monodisperse Oligofluorene-Functionalized Truxenes:Â Highly Fluorescent Star-Shaped Architectures. Journal of the American Chemical Society, 2004, 126, 13695-13702.	14.3	282
41	Direct Determination of the Exciton Binding Energy of Conjugated Polymers Using a Scanning Tunneling Microscope. Physical Review Letters, 1998, 81, 1082-1085.	7.9	278
42	Photoexcited states in poly(p-phenylene vinylene): Comparison withtrans,trans-distyrylbenzene, a model oligomer. Physical Review B, 1990, 42, 11670-11681.	3.3	272
43	Synthesis and Third-Order Nonlinear Optical Properties of a Conjugated Porphyrin Polymer. Angewandte Chemie International Edition in English, 1994, 33, 655-657.	4.4	264
44	Hybrid polymer/metal oxide solar cells based on ZnO columnar structures. Journal of Materials Chemistry, 2006, 16, 2088.	6.7	259
45	The Effect of Poly(3â€hexylthiophene) Molecular Weight on Charge Transport and the Performance of Polymer:Fullerene Solar Cells. Advanced Functional Materials, 2008, 18, 2373-2380.	15.2	256
46	Free Energy Control of Charge Photogeneration in Polythiophene/Fullerene Solar Cells: The Influence of Thermal Annealing on P3HT/PCBM Blends. Advanced Functional Materials, 2008, 18, 4029-4035.	15.2	256
47	Simultaneous optimization of charge-carrier mobility and optical gain in semiconducting polymer films. Nature Materials, 2008, 7, 376-380.	28.4	252
48	Mobility enhancement through homogeneous nematic alignment of a liquid-crystalline polyfluorene. Applied Physics Letters, 1999, 74, 1400-1402.	3.4	251
49	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. Advanced Functional Materials, 2007, 17, 451-457.	15.2	248
50	Understanding the Origin of the 535â€‰nm Emission Band in Oxidized Poly(9,9-dioctylfluorene): The Essential Role of Inter-Chain/Inter-Segment Interactions. Advanced Functional Materials, 2004, 14, 765-781.	15.2	247
51	Competition between the Charge Transfer State and the Singlet States of Donor or Acceptor Limiting the Efficiency in Polymer:Fullerene Solar Cells. Journal of the American Chemical Society, 2012, 134, 685-692.	14.3	238
52	Chemical tuning of the electronic properties of poly(p-phenylenevinylene)-based copolymers. Journal of the American Chemical Society, 1993, 115, 10117-10124.	14.3	236
53	Exciton migration inÎ²-phase poly(9,9-dioctylfluorene). Physical Review B, 2003, 67, .	3.3	232
54	Ambipolar Charge Transport in Films of Methanofullerene and Poly(phenylenevinylene)/MethanofullereneÂBlends. Advanced Functional Materials, 2005, 15, 1171-1182.	15.2	230

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55	Optical spectroscopy of highly ordered poly(p-phenylene vinylene). Journal of Physics Condensed Matter, 1993, 5, 7155-7172.	1.8	227
56	Effect of Crystallization on the Electronic Energy Levels and Thin Film Morphology of P3HT:PCBM Blends. Macromolecules, 2011, 44, 2944-2952.	5.0	225
57	Use of poly(phenyl quinoxaline) as an electron transport material in polymer lightâ€emitting diodes. Applied Physics Letters, 1996, 69, 881-883.	3.4	220
58	Photon-Mediated Hybridization of Frenkel Excitons in Organic Semiconductor Microcavities. Science, 2000, 288, 1620-1623.	12.9	220
59	Organic Photovoltaic Devices Based on Blends of Regioregular Poly(3-hexylthiophene) and Poly(9,9-dioctylfluorene-co-benzothiadiazole). Chemistry of Materials, 2004, 16, 4812-4818.	6.9	219
60	Highâ€Mobility Lowâ€Voltage ZnO and Liâ€Doped ZnO Transistors Based on ZrO₂ Highâ€k Dielectric Grown by Spray Pyrolysis in Ambient Air. Advanced Materials, 2011, 23, 1894-1898.	21.7	217
61	Optical spectroscopy of field-induced charge in poly(3-hexyl thienylene) metal-insulator-semiconductor structures: Evidence for polarons. Physical Review Letters, 1991, 66, 2231-2234.	7.9	213
62	Highly polarized blue electroluminescence from homogeneously aligned films of poly(9,9-dioctylfluorene). Applied Physics Letters, 2000, 76, 2946-2948.	3.4	209
63	Realâ€Time Investigation of Crystallization and Phaseâ€Segregation Dynamics in P3HT:PCBM Solar Cells During Thermal Annealing. Advanced Functional Materials, 2011, 21, 1701-1708.	15.2	207
64	Dispersive electron transport in an electroluminescent polyfluorene copolymer measured by the current integration time-of-flight method. Applied Physics Letters, 2001, 79, 2133-2135.	3.4	205
65	Influence of thermal treatment on the conductivity and morphology of PEDOT/PSS films. Synthetic Metals, 2003, 139, 569-572.	4.0	205
66	Fluorene-based conjugated polymer optical gain media. Organic Electronics, 2003, 4, 165-177.	2.7	203
67	High ambipolar and balanced carrier mobility in regioregular poly(3-hexylthiophene). Applied Physics Letters, 2004, 85, 3890-3892.	3.4	202
68	Solution-processed organic transistors based on semiconducting blends. Journal of Materials Chemistry, 2010, 20, 2562.	6.7	201
69	Origin of electrophosphorescence from a doped polymer light emitting diode. Physical Review B, 2001, 63, .	3.3	199
70	Highâ€Performance Zinc Oxide Transistors and Circuits Fabricated by Spray Pyrolysis in Ambient Atmosphere. Advanced Materials, 2009, 21, 2226-2231.	21.7	197
71	Composition and annealing effects in polythiophene/fullerene solar cells. Journal of Materials Science, 2005, 40, 1371-1376.	3.7	196
72	Precursor route chemistry and electronic properties of poly(p-phenylenevinylene), poly[(2,5-dimethyl-p-phenylene)vinylene] and poly[(2,5-dimethoxy-p-phenylene)vinylene]. Journal of the Chemical Society Perkin Transactions 1, 1992, , 3225.	0.9	195

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73	Emission Characteristics and Performance Comparison of Polyfluorene Lasers with One- and Two-Dimensional Distributed Feedback. Advanced Functional Materials, 2004, 14, 91-97.	15.2	193
74	Conformational effects in poly(p-phenylene vinylene)s revealed by low-temperature site-selective fluorescence. Journal of Physics Condensed Matter, 1993, 5, 247-260.	1.8	189
75	Spinâ€•and Sprayâ€Deposited Singleâ€Walled Carbonâ€Nanotube Electrodes for Organic Solar Cells. Advanced Functional Materials, 2010, 20, 2310-2316.	15.2	187
76	Hybrid nanocrystalline TiO2 solar cells with a fluoreneâ€“thiophene copolymer as a sensitizer and hole conductor. Journal of Applied Physics, 2004, 95, 1473-1480.	2.5	185
77	Effects of thickness and thermal annealing of the PEDOT:PSS layer on the performance of polymer solar cells. Organic Electronics, 2009, 10, 205-209.	2.7	184
78	Ultrastrongly Coupled Excitonâ€“Polaritons in Metalâ€Clad Organic Semiconductor Microcavities. Advanced Optical Materials, 2013, 1, 827-833.	7.4	180
79	Highâ€Efficiency, Solutionâ€Processed, Multilayer Phosphorescent Organic Lightâ€Emitting Diodes with a Copper Thiocyanate Holeâ€Injection/Holeâ€Transport Layer. Advanced Materials, 2015, 27, 93-100.	21.7	178
80	Inverted polymer fullerene solar cells exceeding 10% efficiency with poly(2-ethyl-2-oxazoline) nanodots on electron-collecting buffer layers. Nature Communications, 2015, 6, 8929.	13.1	174
81	The Effect of Polymer Optoelectronic Properties on the Performance of Multilayer Hybrid Polymer/TiO2 Solar Cells. Advanced Functional Materials, 2005, 15, 609-618.	15.2	166
82	A Hybrid Inorganicâ€“Organic Semiconductor Lightâ€Emitting Diode Using ZrO₂ as an Electronâ€Injection Layer. Advanced Materials, 2009, 21, 3475-3478.	21.7	162
83	Optical spectra and excitations in phenylene vinylene oligomers. Synthetic Metals, 1993, 59, 13-28.	4.0	160
84	Light amplification and gain in polyfluorene waveguides. Applied Physics Letters, 2002, 81, 415-417.	3.4	156
85	A photophysical study of PCBM thin films. Chemical Physics Letters, 2007, 445, 276-280.	2.6	156
86	Studies of Highly Regioregular Poly(3â€hexylselenophene) for Photovoltaic Applications. Advanced Materials, 2007, 19, 4544-4547.	21.7	154
87	Enhanced Solidâ€State Luminescence and Lowâ€Threshold Lasing from Starburst Macromolecular Materials. Advanced Materials, 2009, 21, 355-360.	21.7	154
88	Photoluminescence spectra of oligo-paraphenylenevinylenes: a joint theoretical and experimental characterization. Chemical Physics Letters, 1997, 278, 139-145.	2.6	153
89	Quantifying the efficiency of electrodes for positive carrier injection into poly(9,9-dioctylfluorene) and representative copolymers. Journal of Applied Physics, 2001, 89, 3343-3351.	2.5	152
90	A polymer/fullerene based photodetector with extremely low dark current for x-ray medical imaging applications. Applied Physics Letters, 2008, 93, .	3.4	152

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91	High mobility n-channel organic field-effect transistors based on soluble C60 and C70 fullerene derivatives. Synthetic Metals, 2008, 158, 468-472.	4.0	151
92	Using Self-Assembling Dipole Molecules to Improve Hole Injection in Conjugated Polymers. Advanced Functional Materials, 2004, 14, 1205-1210.	15.2	149
93	Investigation of transport properties in polymer/fullerene blends using time-of-flight photocurrent measurements. Applied Physics Letters, 2003, 83, 3812-3814.	3.4	145
94	Electroluminescence from multilayer conjugated polymer devices: Spatial control of exciton formation and emission. Chemical Physics Letters, 1992, 200, 46-54.	2.6	142
95	Temperature and field dependence of hole mobility in poly(9,9-dioctylfluorene). Physical Review B, 2006, 73, .	3.3	142
96	The effect of morphology on the temperature-dependent photoluminescence quantum efficiency of the conjugated polymer poly(9, 9-dioctylfluorene). Journal of Physics Condensed Matter, 2002, 14, 9975-9986.	1.8	141
97	Hybrid Solar Cells from a Blend of Poly(3â€hexylthiophene) and Ligandâ€Capped TiO₂ Nanorods. Advanced Functional Materials, 2008, 18, 622-633.	15.2	141
98	Influence of the hole transport layer on the performance of organic light-emitting diodes. Journal of Applied Physics, 1999, 85, 608-615.	2.5	138
99	Fabrication of Highly Conductive Poly(3,4â€ethylenedioxythiophene) Films by Vapor Phase Polymerization and Their Application in Efficient Organic Lightâ€Emitting Diodes. Advanced Materials, 2007, 19, 2379-2385.	21.7	137
100	Electrophosphoresence from a doped polymer light emitting diode. Synthetic Metals, 2001, 116, 379-383.	4.0	136
101	Energy transfer dynamics in polyfluorene-based polymer blends. Chemical Physics Letters, 2001, 339, 331-336.	2.6	135
102	Monolithically integrated dye-doped PDMS long-pass filters for disposable on-chip fluorescence detection. Lab on A Chip, 2006, 6, 981.	6.1	135
103	Highâ€Efficiency Organic Photovoltaic Cells Based on the Solutionâ€Processable Hole Transporting Interlayer Copper Thiocyanate (CuSCN) as a Replacement for PEDOT:PSS. Advanced Energy Materials, 2015, 5, 1401529.	20.0	133
104	Optical spectroscopy of triplet excitons and charged excitations in poly(p-phenylenevinylene) light-emitting diodes. Chemical Physics Letters, 1993, 210, 61-66.	2.6	130
105	Space-charge-limited charge injection from indium tin oxide into a starburst amine and its implications for organic light-emitting diodes. Applied Physics Letters, 1998, 72, 2448-2450.	3.4	130
106	Infra-red characterization of oriented poly(phenylene vinylene). Polymer, 1986, 27, 1709-1713.	3.9	129
107	On the optical anisotropy of conjugated polymer thin films. Physical Review B, 2005, 72, .	3.3	129
108	Laser action in poly (m-phenylenevinylene-co-2,5-dioctoxy-p-phenylenevinylene). Advanced Materials, 1996, 8, 974-978.	21.7	128

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109	Ellipsometric Characterization of the Optical Constants of Polyfluorene Gain Media. Advanced Functional Materials, 2005, 15, 925-933.	15.2	127
110	Thin-film organic photodiodes as integrated detectors for microscale chemiluminescence assays. Sensors and Actuators B: Chemical, 2005, 106, 878-884.	8.0	126
111	A Multilayered Polymer Light-Emitting Diode Using a Nanocrystalline Metal-Oxide Film as a Charge-Injection Electrode. Advanced Materials, 2007, 19, 683-687.	21.7	125
112	Understanding the Reduced Efficiencies of Organic Solar Cells Employing Fullerene Multiadducts as Acceptors. Advanced Energy Materials, 2013, 3, 744-752.	20.0	125
113	Fluorene-based polymer gain media for solid-state laser emission across the full visible spectrum. Applied Physics Letters, 2003, 82, 3599-3601.	3.4	124
114	Electroluminescence-detected magnetic-resonance study of polyparaphenylenevinylene (PPV)-based light-emitting diodes. Physical Review B, 1992, 46, 15072-15077.	3.3	123
115	Vibronic structure in the optical absorption spectra of phenylene vinylene oligomers: a joint experimental and theoretical study. Chemical Physics Letters, 1995, 247, 425-432.	2.6	122
116	Hybrid Inorganic/Organic Semiconductor Heterostructures with Efficient Non-Radiative Energy Transfer. Advanced Materials, 2006, 18, 334-338.	21.7	122
117	Polymer Fieldâ€Effect Transistors Fabricated by the Sequential Gravure Printing of Polythiophene, Two Insulator Layers, and a Metal Ink Gate. Advanced Functional Materials, 2010, 20, 239-246.	15.2	122
118	Low-voltage ZnO thin-film transistors based on Y2O3 and Al2O3 high-k dielectrics deposited by spray pyrolysis in air. Applied Physics Letters, 2011, 98, .	3.4	122
119	Red, Green, and Blue Lightâ€Emitting Polyfluorenes Containing a Dibenzothiopheneâ€S,Sâ€Dioxide Unit and Efficient Highâ€Colorâ€Renderingâ€Index Whiteâ€Lightâ€Emitting Diodes Made Therefrom. Advanced Functional Materials, 2013, 23, 4366-4376.	15.2	121
120	The Influence of Film Morphology in Highâ€Mobility Smallâ€Molecule:Polymer Blend Organic Transistors. Advanced Functional Materials, 2010, 20, 2330-2337.	15.2	120
121	Fullerene/Cobalt Porphyrin Hybrid Nanosheets with Ambipolar Charge Transporting Characteristics. Journal of the American Chemical Society, 2012, 134, 7204-7206.	14.3	119
122	Bulk limited conduction in electroluminescent polymer devices. Journal of Applied Physics, 1998, 84, 6737-6746.	2.5	118
123	Lowâ€Threshold Distributedâ€Feedback Lasers Based on Pyreneâ€Cored Starburst Molecules with 1,3,6,8â€Attached Oligo(9,9â€Dialkylfluorene) Arms. Advanced Functional Materials, 2009, 19, 2844-2850.	15.2	118
124	Thin-Film Morphology of Inkjet-Printed Single-Droplet Organic Transistors Using Polarized Raman Spectroscopy: Effect of Blending TIPS-Pentacene with Insulating Polymer. ACS Nano, 2011, 5, 9824-9835.	15.0	118
125	Electroluminescence in poly(3-alkylthienylene)s. Synthetic Metals, 1993, 57, 4134-4138.	4.0	117
126	Synthesis of a segmented conjugated polymer chain giving a blue-shifted electroluminescence and improved efficiency. Journal of the Chemical Society Chemical Communications, 1992, , 32.	2.0	116

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127	Photoprocessed and micropatterned conjugated polymer LEDs. Synthetic Metals, 1996, 82, 141-148.	4.0	116
128	Gravure printing for three subsequent solar cell layers of inverted structures on flexible substrates. Solar Energy Materials and Solar Cells, 2011, 95, 731-734.	6.2	115
129	X-ray diffraction study of the structure of thin polyfluorene films. Polymer, 2002, 43, 1907-1913.	3.9	114
130	Characterisation of poly (phenylenevinylene) by infrared and optical absorption. Synthetic Metals, 1987, 17, 651-656.	4.0	113
131	Elctroluminescence: A bright future for conjugated polymers?. Advanced Materials, 1992, 4, 756-758.	21.7	112
132	Ohmic hole injection in poly(9,9-dioctylfluorene) polymer light-emitting diodes. Applied Physics Letters, 2003, 83, 707-709.	3.4	112
133	Photoluminescence and electroluminescence in conjugated polymeric systems. Synthetic Metals, 1993, 57, 4031-4040.	4.0	111
134	Synthesis and third order nonlinear optics of a new soluble conjugated porphyrin polymer. Journal of Materials Chemistry, 2001, 11, 312-320.	6.7	111
135	Blue, surface-emitting, distributed feedback polyfluorene lasers. Applied Physics Letters, 2003, 83, 2118-2120.	3.4	111
136	Low-voltage organic transistors based on solution processed semiconductors and self-assembled monolayer gate dielectrics. Applied Physics Letters, 2008, 93, .	3.4	111
137	Effects of Photo-oxidation on the Performance of Poly[2-methoxy-5-(3â€²,7â€²-dimethyloctyloxy)-1,4-phenylene vinylene]:[6,6]-Phenyl C61-Butyric Acid Methyl Ester Solar Cells. Advanced Functional Materials, 2006, 16, 2117-2126.	15.2	108
138	Improved organic semiconductor lasers based on a mixed-order distributed feedback resonator design. Applied Physics Letters, 2007, 90, 131104.	3.4	106
139	SprayâEDeposited LiâEDoped ZnO Transistors with Electron Mobility Exceeding 50 cm²/Vs. Advanced Materials, 2010, 22, 4764-4769.	21.7	105
140	Large changes in optical response through chemical pre-ordering of poly(p-phenylenevinylene). Advanced Materials, 1993, 5, 40-43.	21.7	103
141	Efficient multilayer electroluminescence devices with poly(m-phenylenevinylene-co-2,5-dioctyloxy-p-phenylenevinylene) as the emissive layer. Journal of Applied Physics, 1997, 82, 2662-2670.	2.5	102
142	Dependence of Charge Separation Efficiency on Film Microstructure in Poly(3-hexylthiophene-2,5-diyl):[6,6]-Phenyl-C₆₁ Butyric Acid Methyl Ester Blend Films. Journal of Physical Chemistry Letters, 2010, 1, 734-738.	4.8	102
143	Light-induced luminescence quenching in precursor-route poly(p-phenylene vinylene). Journal of Physics Condensed Matter, 1989, 1, 3671-3678.	1.8	101
144	High efficiency flexible ITO-free polymer/fullerene photodiodes. Physical Chemistry Chemical Physics, 2006, 8, 3904.	2.9	101

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145	Structural and Electrical Characterization of ZnO Films Grown by Spray Pyrolysis and Their Application in Thinâ€Film Transistors. Advanced Functional Materials, 2011, 21, 525-531.	15.2	100
146	Influence of film morphology on the vibrational spectra of dioctyl substituted polyfluorene (PFO). Synthetic Metals, 2000, 111-112, 607-610.	4.0	99
147	A solid state solar cell using solâ€“gel processed material and a polymer. Chemical Physics Letters, 2001, 347, 325-330.	2.6	98
148	Low-voltage ambipolar phototransistors based on a pentacene/PC61BM heterostructure and a self-assembled nano-dielectric. Organic Electronics, 2010, 11, 1250-1254.	2.7	98
149	Two-dimensional distributed feedback lasers using a broadband, red polyfluorene gain medium. Journal of Applied Physics, 2004, 96, 6959-6965.	2.5	97
150	Effect of the End Group of Regioregular Poly(3-hexylthiophene) Polymers on the Performance of Polymer/Fullerene Solar Cells. Journal of Physical Chemistry C, 2007, 111, 8137-8141.	3.2	96
151	Integrated thin-film polymer/fullerene photodetectors for on-chip microfluidic chemiluminescence detection. Lab on A Chip, 2007, 7, 58-63.	6.1	95
152	Transient and steady-state space-charge-limited currents in polyfluorene copolymer diode structures with ohmic hole injecting contacts. Applied Physics Letters, 2000, 76, 1734-1736.	3.4	94
153	Electroluminescent polymers: materials, physics and device engineering. Current Opinion in Solid State and Materials Science, 1996, 1, 789-797.	11.6	93
154	Understanding the Influence of Morphology on Poly(3-hexylselenothiophene):PCBM Solar Cells. Macromolecules, 2010, 43, 1169-1174.	5.0	92
155	Reduced Graphene Oxide Electrodes for Large Area Organic Electronics. Advanced Materials, 2011, 23, 1558-1562.	21.7	92
156	Investigation of a Conjugated Polyelectrolyte Interlayer for Inverted Polymer:Fullerene Solar Cells. Advanced Energy Materials, 2013, 3, 718-723.	20.0	92
157	Gravure printing inverted organic solar cells: The influence of ink properties on film quality and device performance. Solar Energy Materials and Solar Cells, 2012, 105, 77-85.	6.2	91
158	Photoinduced absorption and photoluminescence in poly(2,5-dimethoxy-p-phenylene vinylene). Physical Review B, 1992, 46, 7379-7389.	3.3	90
159	Polymer Transfer Printing: Application to Layer Coating, Pattern Definition, and Diode Dark Current Blocking. Advanced Materials, 2008, 20, 1679-1683.	21.7	90
160	Natures of optical absorption transitions and excitation energy dependent photostability of diketopyrrolopyrrole (DPP)-based photovoltaic copolymers. Energy and Environmental Science, 2015, 8, 3222-3232.	31.4	90
161	Low threshold blue conjugated polymer lasers with first- and second-order distributed feedback. Applied Physics Letters, 2006, 89, 201108.	3.4	89
162	Organic phototransistors with nanoscale phase-separated polymer/polymer bulk heterojunction layers. Nanoscale, 2011, 3, 2275.	5.7	88

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163	Monodomain alignment of thermotropic fluorene copolymers. Liquid Crystals, 1999, 26, 1403-1407.	2.2	87
164	Fluorescence spectroscopic behaviour of neat and blended conjugated polymer thin films. Chemical Physics, 1999, 246, 445-462.	2.0	87
165	Optical limiting properties of a zinc porphyrin polymer and its dimer and monomer model compounds. Chemical Physics, 1998, 231, 87-94.	2.0	85
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