Olle W IngÃ¤nas

List of Publications by Year
in descending order

463	45,443	1893	2509
papers	citations	102 h-index	196 g-index

468	468	468	25916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organic solar cells based on non-fullerene acceptors. Nature Materials, 2018, 17, 119-128.	27.5	2,315
2	Fullereneâ€Free Polymer Solar Cells with over 11% Efficiency and Excellent Thermal Stability. Advanced Materials, 2016, 28, 4734-4739.	21.0	1,698
3	Modeling photocurrent action spectra of photovoltaic devices based on organic thin films. Journal of Applied Physics, 1999, 86, 487-496.	2.5	1,424
4	Fast charge separation in a non-fullerene organic solar cell with a small driving force. Nature Energy, 2016, 1, .	39.5	1,167
5	On the origin of the open-circuit voltage of polymerâ€“fullerene solar cells. Nature Materials, 2009, 8, 904-909.	27.5	1,101
6	Consensus stability testing protocols for organic photovoltaic materials and devices. Solar Energy Materials and Solar Cells, 2011, 95, 1253-1267.	6.2	812
7	Relating the open-circuit voltage to interface molecular properties of donor:acceptor bulk heterojunction solar cells. Physical Review B, 2010, 81, .	3.2	750
8	Light-emitting diodes with variable colours from polymer blends. Nature, 1994, 372, 444-446.	27.8	749
9	High-Performance Polymer Solar Cells of an Alternating Polyfluorene Copolymer and a Fullerene Derivative. Advanced Materials, 2003, 15, 988-991.	21.0	712
10	Design rules for minimizing voltage losses in high-efficiency organic solar cells. Nature Materials, 2018, 17, 703-709.	27.5	701
11	Electrochromic and highly stable poly(3,4-ethylenedioxythiophene) switches between opaque blue-black and transparent sky blue. Polymer, 1994, 35, 1347-1351.	3.8	653
12	Microrobots for Micrometer-Size Objects in Aqueous Media: Potential Tools for Single-Cell Manipulation. Science, 2000, 288, 2335-2338.	12.6	547
13	Organic Photovoltaics over Three Decades. Advanced Materials, 2018, 30, e1800388.	21.0	540
14	Polymer Photovoltaic Cells with Conducting Polymer Anodes. Advanced Materials, 2002, 14, 662-665.	21.0	455
15	Renewable Cathode Materials from Biopolymer/Conjugated Polymer Interpenetrating Networks. Science, 2012, 335, 1468-1471.	12.6	446
16	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.	14.9	439
17	An Easily Synthesized Blue Polymer for Highâ€Performance Polymer Solar Cells. Advanced Materials, 2010, 22, 5240-5244.	21.0	435
18	Predicting the Openâ€Circuit Voltage of CH₃NH₃PbI₃ Perovskite Solar Cells Using Electroluminescence and Photovoltaic Quantum Efficiency Spectra: the Role of Radiative and Nonâ€Radiative Recombination. Advanced Energy Materials, 2015, 5, 1400812.	19.5	425

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19	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
20	Towards woven logic from organic electronic fibres. Nature Materials, 2007, 6, 357-362.	27.5	419
21	A Planar Copolymer for High Efficiency Polymer Solar Cells. Journal of the American Chemical Society, 2009, 131, 14612-14613.	13.7	407
22	Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. Nature Energy, 2019, 4, 768-775.	39.5	407
23	High Performance All-Polymer Solar Cells by Synergistic Effects of Fine-Tuned Crystallinity and Solvent Annealing. Journal of the American Chemical Society, 2016, 138, 10935-10944.	13.7	401
24	Fieldâ€effect mobility of poly(3â€hexylthiophene). Applied Physics Letters, 1988, 53, 195-197.	3.3	397
25	Structure of thin films of poly(3,4-ethylenedioxythiophene). Synthetic Metals, 1999, 101, 561-564.	3.9	363
26	An Easily Accessible Isoindigo-Based Polymer for High-Performance Polymer Solar Cells. Journal of the American Chemical Society, 2011, 133, 14244-14247.	13.7	363
27	Mapping Polymer Donors toward Highâ€Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155.	21.0	360
28	Electroluminescence from Charge Transfer States in Polymer Solar Cells. Journal of the American Chemical Society, 2009, 131, 11819-11824.	13.7	338
29	Chip and solution detection of DNA hybridization using a luminescent zwitterionic polythiophene derivative. Nature Materials, 2003, 2, 419-424.	27.5	335
30	White light emission from a polymer blend light emitting diode. Applied Physics Letters, 1996, 68, 147-149.	3.3	327
31	Low-Bandgap Alternating Fluorene Copolymer/Methanofullerene Heterojunctions in Efficient Near-Infrared Polymer Solar Cells. Advanced Materials, 2006, 18, 2169-2173.	21.0	320
32	Optical anisotropy in thin films of poly(3,4-ethylenedioxythiophene)â€“poly(4-styrenesulfonate). Organic Electronics, 2002, 3, 143-148.	2.6	319
33	Electrochemical bandgaps of substituted polythiophenes. Journal of Materials Chemistry, 2003, 13, 1316-1323.	6.7	294
34	A New Donorâ€“Acceptorâ€“Donor Polyfluorene Copolymer with Balanced Electron and Hole Mobility. Advanced Functional Materials, 2007, 17, 3836-3842.	14.9	280
35	Electrode Grids for ITO Free Organic Photovoltaic Devices. Advanced Materials, 2007, 19, 2893-2897.	21.0	265
36	Enhancing the Photovoltage of Polymer Solar Cells by Using a Modified Cathode. Advanced Materials, 2007, 19, 1835-1838.	21.0	251

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37	Polarized electroluminescence from an oriented substituted polythiophene in a light emitting diode. Advanced Materials, 1995, 7, 43-45.	21.0	243
38	Substituted polythiophenes designed for optoelectronic devices and conductors. Journal of Materials Chemistry, 1999, 9, 1933-1940.	6.7	238
39	Alternating Polyfluorenes Collect Solar Light in Polymer Photovoltaics. Accounts of Chemical Research, 2009, 42, 1731-1739.	15.6	237
40	A unified description of non-radiative voltage losses in organic solar cells. Nature Energy, 2021, 6, 799-806.	39.5	235
41	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.	14.9	227
42	Non-fullerene acceptor with low energy loss and high external quantum efficiency: towards high performance polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 5890-5897.	10.3	219
43	Active Materials for Organic Electrochemical Transistors. Advanced Materials, 2018, 30, e1800941.	21.0	208
44	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
45	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.	6.2	205
46	High Quantum Efficiency Polythiophene. Advanced Materials, 1998, 10, 774-777.	21.0	200
47	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.	14.9	190
48	Charge generation in polymerâ€“fullerene bulk-heterojunction solar cells. Physical Chemistry Chemical Physics, 2014, 16, 20291-20304.	2.8	190
49	Surface plasmon increase absorption in polymer photovoltaic cells. Applied Physics Letters, 2007, 91, 113514.	3.3	188
50	Imaging the Phase Separation Between PEDOT and Polyelectrolytes During Processing of Highly Conductive PEDOT:PSS Films. ACS Applied Materials & Interfaces, 2015, 7, 19764-19773.	8.0	185
51	Photodiode performance and nanostructure of polythiophene/C60blends. Advanced Materials, 1997, 9, 1164-1168.	21.0	183
52	Three-Step Redox in Polythiophenes:Â Evidence from Electrochemistry at an Ultramicroelectrode. The Journal of Physical Chemistry, 1996, 100, 15202-15206.	2.9	177
53	Imaging Distinct Conformational States of Amyloid-Î² Fibrils in Alzheimerâ€™s Disease Using Novel Luminescent Probes. ACS Chemical Biology, 2007, 2, 553-560.	3.4	177
54	Patterning of Polymer Light-Emitting Diodes with Soft Lithography. Advanced Materials, 2000, 12, 269-273.	21.0	174

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55	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
56	Electroactive polymers for neural interfaces. Polymer Chemistry, 2010, 1, 1374.	3.9	174
57	Conjugated Polyelectrolytes:Â Conformation-Sensitive Optical Probes for Detection of Amyloid Fibril Formationâ€. Biochemistry, 2005, 44, 3718-3724.	2.5	170
58	The promotion of neuronal maturation on soft substrates. Biomaterials, 2009, 30, 4567-4572.	11.4	170
59	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	30.8	170
60	Self-assembly of synthetic peptides control conformation and optical properties of a zwitterionic polythiophene derivative. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10170-10174.	7.1	167
61	Enhanced Photocurrent Spectral Response in Low-Bandgap Polyfluorene and C70-Derivative-Based Solar Cells. Advanced Functional Materials, 2005, 15, 1665-1670.	14.9	166
62	Electrochemical and optical studies of the band gaps of alternating polyfluorene copolymers. Synthetic Metals, 2006, 156, 614-623.	3.9	165
63	Trapping Light in Polymer Photodiodes with Soft Embossed Gratings. Advanced Materials, 2000, 12, 189-195.	21.0	160
64	Structural Anisotropy of Poly(alkylthiophene) Films. Macromolecules, 2000, 33, 3120-3127.	4.8	158
65	Fiberâ€Embedded Electrolyteâ€Gated Fieldâ€Effect Transistors for eâ€Textiles. Advanced Materials, 2009, 21, 573-577.	21.0	157
66	Synthesis and characterization of benzodithiopheneâ€“isoindigo polymers for solar cells. Journal of Materials Chemistry, 2012, 22, 2306-2314.	6.7	156
67	A Conjugated Polymer for Near Infrared Optoelectronic Applications. Advanced Materials, 2007, 19, 3308-3311.	21.0	154
68	Soluble Polythiophenes with Pendant Fullerene Groups as Double Cable Materials for Photodiodes. Advanced Materials, 2001, 13, 1871.	21.0	153
69	Avoiding indium. Nature Photonics, 2011, 5, 201-202.	31.4	152
70	Woven Electrochemical Transistors on Silk Fibers. Advanced Materials, 2011, 23, 898-901.	21.0	149
71	Inverted and transparent polymer solar cells prepared with vacuum-free processing. Solar Energy Materials and Solar Cells, 2009, 93, 497-500.	6.2	148
72	Geminate Charge Recombination in Alternating Polyfluorene Copolymer/Fullerene Blends. Journal of the American Chemical Society, 2007, 129, 8466-8472.	13.7	146

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73	Trapping light with micro lenses in thin film organic photovoltaic cells. Optics Express, 2008, 16, 21608.	3.4	145
74	Investigation on polymer anode design for flexible polymer solar cells. Applied Physics Letters, 2008, 92, 233308.	3.3	142
75	Spectroscopic ellipsometry studies of the optical properties of doped poly(3,4-ethylenedioxythiophene): an anisotropic metal. Thin Solid Films, 1998, 313-314, 356-361.	1.8	138
76	Synthesis of a Regioregular Zwitterionic Conjugated Oligoelectrolyte, Usable as an Optical Probe for Detection of Amyloid Fibril Formation at Acidic pH. Journal of the American Chemical Society, 2005, 127, 2317-2323.	13.7	138
77	Light trapping in thin film organic solar cells. Materials Today, 2014, 17, 389-396.	14.2	138
78	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
79	Photophysics of Substituted Polythiophenes. Journal of Physical Chemistry B, 1999, 103, 7771-7780.	2.6	134
80	An isoindigo-based low band gap polymer for efficient polymer solar cells with high photo-voltage. Chemical Communications, 2011, 47, 4908.	4.1	134
81	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.	13.7	130
82	White light from an electroluminescent diode made from poly[3(4â€²octylphenyl)â€²2,2â€™â€²bithiophene] and an oxadiazole derivative. Journal of Applied Physics, 1994, 76, 7530-7534.	2.5	129
83	An alternating low band-gap polyfluorene for optoelectronic devices. Polymer, 2006, 47, 4261-4268.	3.8	128
84	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.	3.1	126
85	Conducting Polymer Nanowires and Nanodots Made with Soft Lithography. Nano Letters, 2002, 2, 1373-1377.	9.1	124
86	Folded reflective tandem polymer solar cell doubles efficiency. Applied Physics Letters, 2007, 91, .	3.3	124
87	Influence of Molecular Weight on the Performance of Organic Solar Cells Based on a Fluorene Derivative. Advanced Functional Materials, 2010, 20, 2124-2131.	14.9	124
88	Conjugated Polyelectrolytesâ€”Conformationâ€sensitive Optical Probes for Staining and Characterization of Amyloid Deposits. ChemBioChem, 2006, 7, 1096-1104.	2.6	123
89	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.	3.1	122
90	Electrochemical muscles: Micromachining fingers and corkscrews. Advanced Materials, 1993, 5, 630-632.	21.0	120

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91	Side-Chain Architectures of 2,7-Carbazole and Quinoxaline-Based Polymers for Efficient Polymer Solar Cells. Macromolecules, 2011, 44, 2067-2073.	4.8	119
92	Synthesis, Characterization, and Devices of a Series of Alternating Copolymers for Solar Cells. Chemistry of Materials, 2009, 21, 3491-3502.	6.7	118
93	Interference phenomenon determines the color in an organic light emitting diode. Journal of Applied Physics, 1997, 81, 8097-8104.	2.5	117
94	Electrochemical Devices Made from Conducting Nanowire Networks Self-Assembled from Amyloid Fibrils and Alkoxysulfonate PEDOT. Nano Letters, 2008, 8, 1736-1740.	9.1	115
95	Supramolecular Self-Assembly for Enhanced Conductivity in Conjugated Polymer Blends: Ionic Crosslinking in Blends of Poly(3,4-ethylenedioxythiophene)-Poly(styrenesulfonate) and Poly(vinylpyrrolidone). Advanced Materials, 1998, 10, 1097-1099.	21.0	114
96	Influence of buffer layers on the performance of polymer solar cells. Applied Physics Letters, 2004, 84, 3906-3908.	3.3	113
97	Semiâ€Transparent Tandem Organic Solar Cells with 90% Internal Quantum Efficiency. Advanced Energy Materials, 2012, 2, 1467-1476.	19.5	109
98	A new route to polythiophene and copolymers of thiophene and pyrrole. Synthetic Metals, 1985, 11, 239-249.	3.9	108
99	Structureâ€“property relationships of oligothiopheneâ€“isoindigo polymers for efficient bulk-heterojunction solar cells. Energy and Environmental Science, 2014, 7, 361-369.	30.8	108
100	Optical optimization of polyfluorene-fullerene blend photodiodes. Journal of Applied Physics, 2005, 97, 034503.	2.5	107
101	A polythiophene microcavity laser. Chemical Physics Letters, 1998, 288, 879-884.	2.6	105
102	Conjugated Polymers as Optical Probes for Protein Interactions and Protein Conformations. Macromolecular Rapid Communications, 2007, 28, 1703-1713.	3.9	105
103	Structural aspects of electrochemical doping and dedoping of poly(3,4-ethylenedioxythiophene). Synthetic Metals, 2000, 113, 93-97.	3.9	102
104	A Photoelectrochromic Memory and Display Device Based on Conducting Polymers. Journal of the Electrochemical Society, 1984, 131, 1129-1132.	2.9	101
105	Interlayer for Modified Cathode in Highly Efficient Inverted ITOâ€Free Organic Solar Cells. Advanced Materials, 2012, 24, 554-558.	21.0	101
106	Bioinspired Redoxâ€Active Catecholâ€Bearing Polymers as Ultrarobust Organic Cathodes for Lithium Storage. Advanced Materials, 2017, 29, 1703373.	21.0	101
107	Composite biomolecule/PEDOT materials for neural electrodes. Biointerphases, 2008, 3, 83-93.	1.6	100
108	Imaging of the 3D Nanostructure of a Polymer Solar Cell by Electron Tomography. Nano Letters, 2009, 9, 853-855.	9.1	100

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109	Polymer Photovoltaics with Alternating Copolymer/Fullerene Blends and Novel Device Architectures. Advanced Materials, 2010, 22, E100-16.	21.0	100
110	Photo-generated carriers lose energy during extraction from polymer-fullerene solar cells. Nature Communications, 2015, 6, 8778.	12.8	100
111	Twisting macromolecular chains: Self-assembly of a chiral supermolecule from nonchiral polythiophene polyanions and random-coil synthetic peptides. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11197-11202.	7.1	99
112	Polymer Photovoltaic Devices from Stratified Multilayers of Donor-Acceptor Blends. Advanced Materials, 2000, 12, 1367-1370.	21.0	98
113	Solution-Processable Organic Molecule with Triphenylamine Core and Two Benzothiadiazole-Thiophene Arms for Photovoltaic Application. Journal of Physical Chemistry C, 2010, 114, 3701-3706.	3.1	97
114	Iron-Catalyzed Polymerization of Alkoxysulfonate-Functionalized 3,4-Ethylenedioxythiophene Gives Water-Soluble Poly(3,4-ethylenedioxythiophene) of High Conductivity. Chemistry of Materials, 2009, 21, 1815-1821.	6.7	96
115	Temperature Dependence of Charge Carrier Generation in Organic Photovoltaics. Physical Review Letters, 2015, 114, 128701.	7.8	96
116	Electrochemical muscles: Bending strips built from conjugated polymers. Synthetic Metals, 1993, 57, 3718-3723.	3.9	93
117	Design, Synthesis and Properties of Low Band Gap Polyfluorenes for Photovoltaic Devices. Synthetic Metals, 2005, 154, 53-56.	3.9	90
118	Bending bilayer strips built from polyaniline for artificial electrochemical muscles. Smart Materials and Structures, 1993, 2, 1-6.	3.5	89
119	Multicolor oligothiophene-based light-emitting diodes. Applied Physics Letters, 2001, 78, 1493-1495.	3.3	88
120	Charge carrier extraction by linearly increasing voltage: Analytic framework and ambipolar transients. Journal of Applied Physics, 2010, 108, .	2.5	88
121	Polypyrrole micro actuators. Synthetic Metals, 1999, 102, 1309-1310.	3.9	87
122	New low band gap alternating polyfluorene copolymer-based photovoltaic cells. Solar Energy Materials and Solar Cells, 2007, 91, 1010-1018.	6.2	86
123	Conformational Disorder Enhances Solubility and Photovoltaic Performance of a Thiopheneâ€“Quinoxaline Copolymer. Advanced Energy Materials, 2013, 3, 806-814.	19.5	86
124	Controlling colour by voltage in polymer light emitting diodes. Synthetic Metals, 1995, 71, 2185-2186.	3.9	85
125	Modeling electrical transport in blend heterojunction organic solar cells. Journal of Applied Physics, 2005, 97, 124901.	2.5	85
126	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.	21.0	84

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127	Low Band Gap Polymer Solar Cells With Minimal Voltage Losses. Advanced Energy Materials, 2016, 6, 1600148.	19.5	84
128	Conjugated Polyelectrolyte Blends for Electrochromic and Electrochemical Transistor Devices. Chemistry of Materials, 2015, 27, 6385-6393.	6.7	83
129	Comparing the device physics, dynamics and morphology of polymer solar cells employing conventional PCBM and non-fullerene polymer acceptor N2200. Nano Energy, 2017, 35, 251-262.	16.0	83
130	Ultrafast photogeneration of inter-chain charge pairs in polythiophene films. Chemical Physics Letters, 2000, 322, 136-142.	2.6	82
131	Nano-structured conducting polymer network based on PEDOT-PSS. Synthetic Metals, 2001, 121, 1321-1322.	3.9	82
132	Dâ€“A₁â€“Dâ€“A₂ Copolymers with Extended Donor Segments for Efficient Polymer Solar Cells. Macromolecules, 2015, 48, 1009-1016.	4.8	82
133	Photovoltaic cells with a conjugated polyelectrolyte. Synthetic Metals, 2000, 110, 133-140.	3.9	81
134	Hydrogels of a conducting conjugated polymer as 3-D enzyme electrode. Biosensors and Bioelectronics, 2003, 19, 199-207.	10.1	81
135	Optical properties of low band gap alternating copolyfluorenes for photovoltaic devices. Journal of Chemical Physics, 2005, 123, 204718.	3.0	80
136	Phase behaviour of liquid-crystalline polymer/fullerene organic photovoltaic blends: thermal stability and miscibility. Journal of Materials Chemistry, 2011, 21, 10676.	6.7	80
137	Photoluminescence quenching in a polymer thinâ€film fieldâ€effect luministor. Journal of Applied Physics, 1992, 71, 2816-2820.	2.5	79
138	Synthesis and Properties of a Soluble Conjugated Poly(azomethine) with High Molecular Weight. Macromolecules, 1998, 31, 2676-2678.	4.8	79
139	Small Band Gap Polymers Synthesized via a Modified Nitration of 4,7-Dibromo-2,1,3-benzothiadiazole. Organic Letters, 2010, 12, 4470-4473.	4.6	79
140	Synthesis and Characterization of Highly Soluble Phenyl-Substituted Poly(p-phenylenevinylenes). Macromolecules, 2000, 33, 2525-2529.	4.8	78
141	Electroactive Luminescent Self-Assembled Bio-organic Nanowires: Integration of Semiconducting Oligoelectrolytes within Amyloidogenic Proteins. Advanced Materials, 2005, 17, 1466-1471.	21.0	78
142	Organic tandem solar cellsâ€”modelling and predictions. Solar Energy Materials and Solar Cells, 2006, 90, 3491-3507.	6.2	78
143	Development of polymerâ€“fullerene solar cells. National Science Review, 2016, 3, 222-239.	9.5	78
144	Electrochemically Induced Volume Changes in Poly(3,4-ethylenedioxythiophene). Chemistry of Materials, 1996, 8, 2439-2443.	6.7	77

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145	Simple experimental test to distinguish extraction and injection barriers at the electrodes of (organic) solar cells with S-shaped currentâ€“voltage characteristics. Solar Energy Materials and Solar Cells, 2013, 117, 599-603.	6.2	77
146	Ultraviolet electroluminescence from an organic light emitting diode. Advanced Materials, 1995, 7, 900-903.	21.0	76
147	Transparent polymer cathode for organic photovoltaic devices. Synthetic Metals, 2006, 156, 1102-1107.	3.9	76
148	A polymer photodiode using vapour-phase polymerized PEDOT as an anode. Solar Energy Materials and Solar Cells, 2006, 90, 133-141.	6.2	76
149	Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. Advanced Functional Materials, 2013, 23, 4262-4268.	14.9	76
150	Green Electroluminescence in Poly-(3-cyclohexylthiophene) light-emitting diodes. Advanced Materials, 1994, 6, 488-490.	21.0	75
151	Studies of Luminescent Conjugated Polythiophene Derivatives: Enhanced Spectral Discrimination of Protein Conformational States. Bioconjugate Chemistry, 2007, 18, 1860-1868.	3.6	75
152	Conducting polymers as artificial muscles: challenges and possibilities. Journal of Micromechanics and Microengineering, 1993, 3, 203-205.	2.6	74
153	Photogenerated Carrier Mobility Significantly Exceeds Injected Carrier Mobility in Organic Solar Cells. Advanced Energy Materials, 2017, 7, 1602143.	19.5	74
154	Boosting the capacity of all-organic paper supercapacitors using wood derivatives. Journal of Materials Chemistry A, 2018, 6, 145-152.	10.3	74
155	An optical spacer is no panacea for light collection in organic solar cells. Applied Physics Letters, 2009, 94, .	3.3	73
156	A New Tetracyclic Lactam Building Block for Thick, Broad-Bandgap Photovoltaics. Journal of the American Chemical Society, 2014, 136, 11578-11581.	13.7	73
157	Stability of poly(3,4â€ethylene dioxythiophene) materials intended for implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 407-415.	3.4	72
158	Polymeric light-emitting diodes of submicron size â€” structures and developments. Synthetic Metals, 1996, 76, 141-143.	3.9	71
159	Self-assembly of a conducting polymer nanostructure by physical crosslinking: applications to conducting blends and modified electrodes. Synthetic Metals, 1999, 101, 413-416.	3.9	71
160	Conductivity of de-doped poly(3,4-ethylenedioxythiophene). Synthetic Metals, 2002, 129, 269-274.	3.9	71
161	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.	14.9	71
162	Structure-property relationships of small bandgap conjugated polymers for solar cells. Dalton Transactions, 2009, , 10032.	3.3	71

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163	Charge-Transfer States and Upper Limit of the Open-Circuit Voltage in Polymer:Fullerene Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1676-1684.	2.9	71
164	Polypyrroleâ€semiconductor Schottky barriers. Journal of Applied Physics, 1983, 54, 3636-3639.	2.5	70
165	Thermal control of nearâ€infrared and visible electroluminescence in alkylâ€phenyl substituted polythiophenes. Applied Physics Letters, 1994, 65, 1489-1491.	3.3	70
166	Flexible arrays of submicrometer-sized polymeric light emitting diodes. Advanced Materials, 1995, 7, 1012-1015.	21.0	70
167	Anisotropic optical properties of doped poly(3,4-ethylenedioxythiophene). Synthetic Metals, 1999, 101, 198-199.	3.9	70
168	In Situ Wilhelmy Balance Surface Energy Determination of Poly(3-hexylthiophene) and Poly(3,4-ethylenedioxythiophene) during Electrochemical Dopingâ^'Dedoping. Langmuir, 2006, 22, 9287-9294.	3.5	70
169	Quantum efficiency of exciton-to-charge generation in organic photovoltaic devices. Journal of Applied Physics, 2001, 89, 5564-5569.	2.5	69
170	White Light with Phosphorescent Protein Fibrils in OLEDs. Nano Letters, 2010, 10, 2225-2230.	9.1	69
171	Largeâ€Area, Semitransparent, and Flexible Allâ€Polymer Photodetectors. Advanced Functional Materials, 2018, 28, 1805570.	14.9	68
172	Multifolded polymer solar cells on flexible substrates. Applied Physics Letters, 2008, 93, .	3.3	67
173	Charge Storage Capacity of Renewable Biopolymer/Conjugated Polymer Interpenetrating Networks Enhanced by Electroactive Dopants. Advanced Energy Materials, 2014, 4, 1300443.	19.5	67
174	A Facile Method to Enhance Photovoltaic Performance of Benzodithiopheneâ€isoindigo Polymers by Inserting Bithiophene Spacer. Advanced Energy Materials, 2014, 4, 1301455.	19.5	66
175	Determination of the emission zone in a single-layer polymer light-emitting diode through optical measurements. Journal of Applied Physics, 2001, 89, 5897-5902.	2.5	65
176	The Cell Clinic: Closable Microvials for Single Cell Studies. Biomedical Microdevices, 2002, 4, 177-187.	2.8	65
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