

Paul Meredith

List of Publications by Year in descending order

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264
papers

18,636
citations

20036

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15698

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274
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274
times ranked

21371
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasi-Steady-State Measurement of Exciton Diffusion Lengths in Organic Semiconductors. <i>Physical Review Applied</i> , 2022, 17, .	1.5	12
2	Probing Charge Generation Efficiency in Thin-Film Solar Cells by Integral-Mode Transient Charge Extraction. <i>ACS Photonics</i> , 2022, 9, 1188-1195.	3.2	0
3	Scaling Considerations for Organic Photovoltaics for Indoor Applications. <i>Solar Rrl</i> , 2022, 6, .	3.1	11
4	Transient analysis of photomultiplication-type organic photodiodes. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	13
5	Role of Exciton Diffusion and Lifetime in Organic Solar Cells with a Low Energy Offset. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4402-4409.	2.1	8
6	Quantifying the Excitonic Static Disorder in Organic Semiconductors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	7
7	Integrated bioelectronic proton-gated logic elements utilizing nanoscale patterned Nafion. <i>Materials Horizons</i> , 2021, 8, 224-233.	6.4	9
8	A History and Perspective of Nonâ€Fullerene Electron Acceptors for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003570.	10.2	323
9	Interfacial water morphology in hydrated melanin. <i>Soft Matter</i> , 2021, 17, 7940-7952.	1.2	6
10	Requirements for Making Thick Junctions of Organic Solar Cells based on Nonfullerene Acceptors. <i>Solar Rrl</i> , 2021, 5, 2100018.	3.1	16
11	Parameterization of Metallic Grids on Transparent Conductive Electrodes for the Scaling of Organic Solar Cells. <i>Advanced Electronic Materials</i> , 2021, 7, 2100192.	2.6	11
12	Direct Quantification of Quasi-Fermi-Level Splitting in Organic Semiconductor Devices. <i>Physical Review Applied</i> , 2021, 15, .	1.5	8
13	A universal Urbach rule for disordered organic semiconductors. <i>Nature Communications</i> , 2021, 12, 3988.	5.8	78
14	Direct observation of trap-assisted recombination in organic photovoltaic devices. <i>Nature Communications</i> , 2021, 12, 3603.	5.8	64
15	Melanin thin-films: a perspective on optical and electrical properties. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8345-8358.	2.7	21
16	Organic solar cells with near-unity charge generation yield. <i>Energy and Environmental Science</i> , 2021, 14, 6484-6493.	15.6	20
17	On the Electroâ€Optics of Carbon Stack Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900221.	3.1	10
18	Melanin Biopolymers: Tailoring Chemical Complexity for Materials Design. <i>Angewandte Chemie</i> , 2020, 132, 11292-11301.	1.6	14

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19	Melanin Biopolymers: Tailoring Chemical Complexity for Materials Design. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11196-11205.	7.2	121
20	Sensitivity of Sub-Bandgap External Quantum Efficiency Measurements of Solar Cells under Electrical and Light Bias. <i>ACS Photonics</i> , 2020, 7, 256-264.	3.2	37
21	Determining Ultralow Absorption Coefficients of Organic Semiconductors from the Sub-Bandgap Photovoltaic External Quantum Efficiency. <i>Advanced Optical Materials</i> , 2020, 8, 1901542.	3.6	36
22	Intrinsic Detectivity Limits of Organic Near-Infrared Photodetectors. <i>Advanced Materials</i> , 2020, 32, e2003818.	11.1	95
23	Defect/Interface Recombination Limited Quasi-Fermi Level Splitting and Open-Circuit Voltage in Mono- and Triple-Cation Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37647-37656.	4.0	28
24	Nonfullerene Acceptors: A Renaissance in Organic Photovoltaics?. <i>Advanced Energy Materials</i> , 2020, 10, 2001788.	10.2	88
25	Engineering proton conductivity in melanin using metal doping. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8050-8060.	2.9	27
26	Limitations of Charge Transfer State Parameterization Using Photovoltaic External Quantum Efficiency. <i>Advanced Energy Materials</i> , 2020, 10, 2001828.	10.2	29
27	Experimental Evidence Relating Charge-Transfer-State Kinetics and Strongly Reduced Bimolecular Recombination in Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10519-10525.	2.1	6
28	Metal Grid Structures for Enhancing the Stability and Performance of Solution-Processed Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020, 6, 2000732.	2.6	8
29	Charge-generating mid-gap trap states define the thermodynamic limit of organic photovoltaic devices. <i>Nature Communications</i> , 2020, 11, 5567.	5.8	63
30	Shedding Light on the Free Radical Nature of Sulfonated Melanins. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10365-10373.	1.2	18
31	The Optical Constants of Solution-Processed Semiconductors—New Challenges with Perovskites and Non-Fullerene Acceptors. <i>Advanced Optical Materials</i> , 2020, 8, 2000319.	3.6	45
32	On the Question of the Need for a Built-In Potential in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000041.	1.9	79
33	Charge Carrier Transport and Generation via Trap-Mediated Optical Release in Organic Semiconductor Devices. <i>Physical Review Letters</i> , 2020, 124, 128001.	2.9	18
34	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs _{1-x} FAPb ₃ quantum dot solar cells with reduced phase segregation. <i>Nature Energy</i> , 2020, 5, 79-88.	19.8	412
35	Manipulating the Charge Transfer Absorption for Narrowband Light Detection in the Near-Infrared. <i>Chemistry of Materials</i> , 2019, 31, 9325-9330.	3.2	40
36	Measuring Energetic Disorder in Organic Semiconductors Using the Photogenerated Charge-Separation Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3863-3870.	2.1	29

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37	Theoretical Perspective on Transient Photovoltage and Charge Extraction Techniques. Journal of Physical Chemistry C, 2019, 123, 14261-14271.	1.5	49
38	The Role of Bulk and Interface Recombination in High-Efficiency Low-Dimensional Perovskite Solar Cells. Advanced Materials, 2019, 31, e1901090.	11.1	59
39	Cavity Enhanced Organic Photodiodes with Charge Collection Narrowing. Advanced Optical Materials, 2019, 7, 1801543.	3.6	38
40	Macroscale Biomolecular Electronics and Ionics. Advanced Materials, 2019, 31, e1802221.	11.1	80
41	Accurate characterization of next-generation thin-film photodetectors. Nature Photonics, 2019, 13, 1-4.	15.6	436
42	An all-solid-state biocompatible ion-to-electron transducer for bioelectronics. Materials Horizons, 2018, 5, 256-263.	6.4	81
43	The photoreactive free radical in eumelanin. Science Advances, 2018, 4, eaaq1293.	4.7	72
44	Recombination Losses Above and Below the Transport Percolation Threshold in Bulk Heterojunction Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1703339.	10.2	16
45	Scaling of next generation solution processed organic and perovskite solar cells. Nature Communications, 2018, 9, 5261.	5.8	56
46	Anomalous Exciton Quenching in Organic Semiconductors in the Low-Yield Limit. Journal of Physical Chemistry Letters, 2018, 9, 6144-6148.	2.1	6
47	Decoupling Ionic and Electronic Currents in Melanin. Advanced Functional Materials, 2018, 28, 1805514.	7.8	61
48	LED technology breaks performance barrier. Nature, 2018, 562, 197-198.	13.7	22
49	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21681-21687.	4.0	89
50	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. Nature Energy, 2018, 3, 847-854.	19.8	721
51	The Scaling Physics of Thin Film Organic Solar Cells. Materials and Energy, 2018, , 265-308.	2.5	0
52	Solution-processed semiconductors for next-generation photodetectors. Nature Reviews Materials, 2017, 2, .	23.3	992
53	A thiocarbonyl-containing small molecule for optoelectronics. RSC Advances, 2017, 7, 10316-10322.	1.7	10
54	A Triarylamine-Based Anode Modifier for Efficient Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 9096-9101.	4.0	10

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55	Considerations for Upscaling of Organohalide Perovskite Solar Cells. <i>Advanced Optical Materials</i> , 2017, 5, 1600819.	3.6	18
56	The structural impact of water sorption on device-quality melanin thin films. <i>Soft Matter</i> , 2017, 13, 3954-3965.	1.2	21
57	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , 2017, 29, 1700810.	11.1	26
58	Engineering dielectric constants in organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3736-3747.	2.7	50
59	Host-Free Blue Phosphorescent Dendrimer Organic Light-Emitting Field-Effect Transistors and Equivalent Light-Emitting Diodes: A Comparative Study. <i>ACS Photonics</i> , 2017, 4, 754-760.	3.2	27
60	Hybrid Nanowire Ion-to-Electron Transducers for Integrated Bioelectronic Circuitry. <i>Nano Letters</i> , 2017, 17, 827-833.	4.5	26
61	Effect of capping group on the properties of non-polymeric diketopyrrolopyrroles for solution-processed bulk heterojunction solar cells. <i>Organic Electronics</i> , 2017, 50, 339-346.	1.4	3
62	Electric Field and Mobility Dependent First-Order Recombination Losses in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601379.	10.2	31
63	Assessing the sensing limits of fluorescent dendrimer thin films for the detection of explosive vapors. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 727-733.	4.0	14
64	On the unipolarity of charge transport in methanofullerene diodes. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	17
65	An Hydrophilic Anode Interlayer for Solution Processed Organohalide Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500420.	1.9	20
66	Acceptor and Excitation Density Dependence of the Ultrafast Polaron Absorption Signal in Donor-Acceptor Organic Solar Cell Blends. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2640-2646.	2.1	14
67	Thiophene dendrimer-based low donor content solar cells. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	14
68	AZO/Ag/AZO anode for resonant cavity red, blue, and yellow organic light emitting diodes. <i>Journal of Applied Physics</i> , 2016, 119, 245501.	1.1	5
69	Long-Range Proton Conduction across Free-Standing Serum Albumin Mats. <i>Advanced Materials</i> , 2016, 28, 2692-2698.	11.1	65
70	Detection of Explosive Vapors: The Roles of Exciton and Molecular Diffusion in Real-Time Sensing. <i>ChemPhysChem</i> , 2016, 17, 3350-3353.	1.0	16
71	Reduced Recombination in High Efficiency Molecular Nematic Liquid Crystalline: Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600939.	10.2	68
72	Efficient, monolithic large area organohalide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13830-13836.	5.2	47

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73	Near infrared photodetectors based on sub-bandgap absorption in organohalide perovskite single crystals. <i>Laser and Photonics Reviews</i> , 2016, 10, 1047-1053.	4.4	64
74	Detection of Explosive Vapors: The Roles of Exciton and Molecular Diffusion in Real-Time Sensing. <i>ChemPhysChem</i> , 2016, 17, 3345-3345.	1.0	0
75	Megawatt-scale solar variability study: an experience from a 1.2MWp photovoltaic system in Australia over three years. <i>IET Renewable Power Generation</i> , 2016, 10, 1229-1236.	1.7	27
76	Slower carriers limit charge generation in organic semiconductor light-harvesting systems. <i>Nature Communications</i> , 2016, 7, 11944.	5.8	65
77	Charge Generation Pathways in Organic Solar Cells: Assessing the Contribution from the Electron Acceptor. <i>Chemical Reviews</i> , 2016, 116, 12920-12955.	23.0	197
78	Organic Photodiodes: The Future of Full Color Detection and Image Sensing. <i>Advanced Materials</i> , 2016, 28, 4766-4802.	11.1	599
79	Organohalide Perovskites for Solar Energy Conversion. <i>Accounts of Chemical Research</i> , 2016, 49, 545-553.	7.6	135
80	An overview of the Australian Centre for Advanced Photovoltaics and the Australia-US Institute for Advanced Photovoltaics. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1771, 33-44.	0.1	1
81	Melanins and melanogenesis: from pigment cells to human health and technological applications. <i>Pigment Cell and Melanoma Research</i> , 2015, 28, 520-544.	1.5	347
82	Bulk heterojunction thickness uniformity – a limiting factor in large area organic solar cells?. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2246-2254.	0.8	17
83	Pathway to high throughput, low cost indium-free transparent electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13892-13899.	5.2	15
84	Heavy Water as a Probe of the Free Radical Nature and Electrical Conductivity of Melanin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14994-15000.	1.2	52
85	Diffusion of nitroaromatic vapours into fluorescent dendrimer films for explosives detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 550-557.	4.0	24
86	Efficient and bright polymer light emitting field effect transistors. <i>Organic Electronics</i> , 2015, 17, 371-376.	1.4	25
87	Low Noise, IR-Blind Organohalide Perovskite Photodiodes for Visible Light Detection and Imaging. <i>Advanced Materials</i> , 2015, 27, 2060-2064.	11.1	271
88	Photodiodes: High-Performance, Solution-Processed Non-polymeric Organic Photodiodes (Advanced) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	3.6	1
89	Narrowband light detection via internal quantum efficiency manipulation of organic photodiodes. <i>Nature Communications</i> , 2015, 6, 6343.	5.8	406
90	Charge transport and recombination in heterostructure organic light emitting transistors. <i>Organic Electronics</i> , 2015, 25, 37-43.	1.4	8

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91	Dielectric constant enhancement of non-fullerene acceptors via side-chain modification. <i>Chemical Communications</i> , 2015, 51, 14115-14118.	2.2	49
92	Defining the light emitting area for displays in the unipolar regime of highly efficient light emitting transistors. <i>Scientific Reports</i> , 2015, 5, 8818.	1.6	35
93	Photocurrent drift distance in organic solar cells and photodetectors. <i>Scientific Reports</i> , 2015, 5, 9949.	1.6	81
94	Planar silver nanowire, carbon nanotube and PEDOT:PSS nanocomposite transparent electrodes. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 025002.	2.8	24
95	Room-temperature tilted-target sputtering deposition of highly transparent and low sheet resistance Al doped ZnO electrodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5322-5331.	2.7	15
96	Simultaneous enhancement of charge generation quantum yield and carrier transport in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10799-10812.	2.7	25
97	Unambiguous detection of nitrated explosive vapours by fluorescence quenching of dendrimer films. <i>Nature Communications</i> , 2015, 6, 8240.	5.8	75
98	Solution-processed non-polymeric organic photodiodes. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
99	Molecular versus exciton diffusion in fluorescence-based explosive vapour sensors. <i>Chemical Communications</i> , 2015, 51, 17406-17409.	2.2	15
100	Quantitative real time sensing reveals enhanced sensitivity of polar dendrimer thin films for plastic explosive taggants. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9412-9424.	2.7	2
101	Filterless narrowband visible photodetectors. <i>Nature Photonics</i> , 2015, 9, 687-694.	15.6	445
102	Electro-Optics of Conventional and Inverted Thick Junction Organic Solar Cells. <i>ACS Photonics</i> , 2015, 2, 1745-1754.	3.2	40
103	Charge Transport without Recombination in Organic Solar Cells and Photodiodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26866-26874.	1.5	28
104	Tuning the Optoelectronic Properties of Nonfullerene Electron Acceptors. <i>ChemPhysChem</i> , 2015, 16, 1295-1304.	1.0	12
105	Electro-optics of perovskite solar cells. <i>Nature Photonics</i> , 2015, 9, 106-112.	15.6	1,485
106	Optimized multilayer indium-free electrodes for organic photovoltaics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 348-355.	0.8	8
107	Time-independent charge carrier mobility in a model polymer:fullerene organic solar cell. <i>Organic Electronics</i> , 2015, 16, 205-211.	1.4	11
108	Efficient, Large Area, and Thick Junction Polymer Solar Cells with Balanced Mobilities and Low Defect Densities. <i>Advanced Energy Materials</i> , 2015, 5, 1401221.	10.2	80

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109	High-Performance, Solution-Processed Non-polymeric Organic Photodiodes. <i>Advanced Optical Materials</i> , 2015, 3, 50-56.	3.6	43
110	Balanced Carrier Mobilities: Not a Necessary Condition for High-Efficiency Thin Organic Solar Cells as Determined by MIS-CELIV. <i>Advanced Energy Materials</i> , 2014, 4, 1300954.	10.2	129
111	Molecular weight dependent bimolecular recombination in organic solar cells. <i>Journal of Chemical Physics</i> , 2014, 141, 054903.	1.2	21
112	Pentacene/K12 solar cells formed by organic vapor phase deposition. <i>Journal of Photonics for Energy</i> , 2014, 4, 043092.	0.8	0
113	Determination of Fullerene Scattering Length Density: A Critical Parameter for Understanding the Fullerene Distribution in Bulk Heterojunction Organic Photovoltaic Devices. <i>Langmuir</i> , 2014, 30, 1410-1415.	1.6	19
114	Solution structure: defining polymer film morphology and optoelectronic device performance. <i>Journal of Materials Chemistry C</i> , 2014, 2, 71-77.	2.7	21
115	Dynamics of Charge Generation and Transport in Polymer-Fullerene Blends Elucidated Using a PhotoFET Architecture. <i>ACS Photonics</i> , 2014, 1, 114-120.	3.2	16
116	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	36
117	Spectral Dependence of the Internal Quantum Efficiency of Organic Solar Cells: Effect of Charge Generation Pathways. <i>Journal of the American Chemical Society</i> , 2014, 136, 11465-11472.	6.6	83
118	Time-Resolved Neutron Reflectometry and Photovoltaic Device Studies on Sequentially Deposited PCDTBT-Fullerene Layers. <i>Langmuir</i> , 2014, 30, 11474-11484.	1.6	35
119	Improved stability of non-ITO stacked electrodes for large area flexible organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 182-190.	3.0	20
120	Thick junction broadband organic photodiodes. <i>Laser and Photonics Reviews</i> , 2014, 8, 924-932.	4.4	212
121	Worldwide outdoor round robin study of organic photovoltaic devices and modules. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 281-290.	3.0	23
122	High-Mobility, Heterostructure Light-Emitting Transistors and Complementary Inverters. <i>ACS Photonics</i> , 2014, 1, 954-959.	3.2	22
123	Narrow band green organic photodiodes for imaging. <i>Organic Electronics</i> , 2014, 15, 2903-2911.	1.4	118
124	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. <i>ACS Photonics</i> , 2014, 1, 173-181.	3.2	137
125	Free Carrier Generation in Organic Photovoltaic Bulk Heterojunctions of Conjugated Polymers with Molecular Acceptors: Planar versus Spherical Acceptors. <i>ChemPhysChem</i> , 2014, 15, 1539-1549.	1.0	27
126	Impact of Acceptor Crystallinity on the Photophysics of Nonfullerene Blends for Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13460-13466.	1.5	11

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127	The impact of hot charge carrier mobility on photocurrent losses in polymer-based solar cells. <i>Scientific Reports</i> , 2014, 4, 5695.	1.6	58
128	Measuring internal quantum efficiency to demonstrate hot exciton dissociation. <i>Nature Materials</i> , 2013, 12, 593-593.	13.3	37
129	Three-dimensional carbazole-based dendrimers: model structures for studying charge transport in organic semiconductor films. <i>Polymer Chemistry</i> , 2013, 4, 916-925.	1.9	22
130	Detection of explosive analytes using a dendrimer-based field-effect transistor. <i>Organic Electronics</i> , 2013, 14, 1255-1261.	1.4	5
131	Melanins and melanogenesis: methods, standards, protocols. <i>Pigment Cell and Melanoma Research</i> , 2013, 26, 616-633.	1.5	365
132	Analysis of yearlong performance of differently tilted photovoltaic systems in Brisbane, Australia. <i>Energy Conversion and Management</i> , 2013, 74, 102-108.	4.4	47
133	Correlation of diffusion and performance in sequentially processed P3HT/PCBM heterojunction films by time-resolved neutron reflectometry. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2593.	2.7	33
134	High-Generation Dendrimers with Excimer-like Photoluminescence for the Detection of Explosives. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5328-5337.	1.5	38
135	Unlocking the full potential of light emitting field-effect transistors by engineering charge injection layers. <i>Organic Electronics</i> , 2013, 14, 2953-2961.	1.4	25
136	Doping-Induced Screening of the Built-in Field in Organic Solar Cells: Effect on Charge Transport and Recombination. <i>Advanced Energy Materials</i> , 2013, 3, 321-327.	10.2	54
137	Electronic and optoelectronic materials and devices inspired by nature. <i>Reports on Progress in Physics</i> , 2013, 76, 034501.	8.1	174
138	Identifying the optimum composition in organic solar cells comprising non-fullerene electron acceptors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5989.	5.2	24
139	Hydration-Controlled X-Band EPR Spectroscopy: A Tool for Unravelling the Complexities of the Solid-State Free Radical in Eumelanin. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4965-4972.	1.2	84
140	A Narrow Optical Gap Small Molecule Acceptor for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 54-59.	10.2	107
141	Controlling Hierarchy in Solution-processed Polymer Solar Cells Based on Crosslinked P3HT. <i>Advanced Energy Materials</i> , 2013, 3, 105-112.	10.2	58
142	Spectral response tuning using an optical spacer in broad-band organic solar cells. <i>Applied Physics Letters</i> , 2013, 102, 013302.	1.5	8
143	The nature and role of trap states in a dendrimer-based organic field-effect transistor explosive sensor. <i>Applied Physics Letters</i> , 2013, 102, 243301.	1.5	3
144	Channel II photocurrent quantification in narrow optical gap polymer-fullerene solar cells with complimentary acceptor absorption. <i>Applied Physics Letters</i> , 2013, 102, 223302.	1.5	15

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145	Simultaneous Enhancement of Brightness, Efficiency, and Switching in RGB Organic Light Emitting Transistors. <i>Advanced Materials</i> , 2013, 25, 6213-6218.	11.1	77
146	Structured-gate organic field-effect transistors. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 225105.	1.3	8
147	Role of semiconductivity and ion transport in the electrical conduction of melanin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8943-8947.	3.3	305
148	On the origin of electrical conductivity in the bio-electronic material melanin. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	76
149	A new diketopyrrolopyrrole-based co-polymer for ambipolar field-effect transistors and solar cells. <i>Organic Electronics</i> , 2012, 13, 1981-1988.	1.4	21
150	Injected charge extraction by linearly increasing voltage for bimolecular recombination studies in organic solar cells. <i>Applied Physics Letters</i> , 2012, 101, 083306.	1.5	42
151	Large area monolithic organic solar cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
152	Kinetics of charge transfer processes in organic solar cells: Implications for the design of acceptor molecules. <i>Organic Electronics</i> , 2012, 13, 2538-2545.	1.4	11
153	A flexible n-type organic semiconductor for optoelectronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 1800-1806.	6.7	28
154	Fluorescent carbazole dendrimers for the detection of nitroaliphatic taggants and accelerants. <i>Journal of Materials Chemistry</i> , 2012, 22, 12507.	6.7	34
155	Efficient, Large Area ITO–PEDOT&free Organic Solar Cell Sub&modules. <i>Advanced Materials</i> , 2012, 24, 2572-2577.	11.1	148
156	Factors Influencing the Efficiency of Current Collection in Large Area, Monolithic Organic Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1338-1342.	10.2	27
157	Nanostructured, Active Organic&Metal Junctions for Highly Efficient Charge Generation and Extraction in Polymer&Fullerene Solar Cells. <i>Advanced Materials</i> , 2012, 24, 1055-1061.	11.1	37
158	Solid State Dendrimer Sensors: Effect of Dendrimer Dimensionality on Detection and Sequestration of 2,4-Dinitrotoluene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18366-18371.	1.5	28
159	Synthesis and Self-Assembly of Donor&Acceptor&Donor Based Oligothiophenes and Their Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14369-14376.	1.5	31
160	Explosive Sensing with Fluorescent Dendrimers: The Role of Collisional Quenching. <i>Chemistry of Materials</i> , 2011, 23, 789-794.	3.2	134
161	A dendronised polymer for bulk heterojunction solar cells. <i>Polymer Chemistry</i> , 2011, 2, 2668.	1.9	17
162	Fluorescent carbazole dendrimers for the detection of explosives. <i>Polymer Chemistry</i> , 2011, 2, 2360.	1.9	84

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163	A solution processable fluorene-benzothiadiazole small molecule for n-type organic field-effect transistors. Applied Physics Letters, 2011, 98, 153301.	1.5	19
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