Paul L Burn

List of Publications by Year
in descending order

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Version: 2024-02-01

432 papers	33,871 citations	10351 72 h-index	4323 173 g-index
443 all docs	443 docs citations	443 times ranked	21589 citing authors

#	Article	IF	Citations
1	Dielectric Constant Engineering of Organic Semiconductors: Effect of Planarity and Conjugation Length. Advanced Functional Materials, 2022, 32, 2104259.	7.8	10
2	Light-emitting dendrimer:exciplex host-based solution-processed white organic light-emitting diodes. Organic Electronics, 2022, 100, 106389.	1.4	8
3	Rivers of Lightâ€"Ternary Exciplex Blends for High Efficiency Solutionâ€Processed Red Phosphorescent Organic Light Emitting Diodes. Advanced Functional Materials, 2022, 32, 2108128.	7.8	3
4	Investigating the donor:acceptor ratio in thermally activated delayed fluorescence light-emitting macromolecules. Organic Electronics, 2022, 105, 106500.	1.4	6
5	Thermally activated delayed fluorescence poly(dendrimer)s â€“ detrapping excitons for reverse intersystem crossing. Journal of Materials Chemistry C, 2022, 10, 8109-8124.	2.7	1
6	Understanding the performance differences between solution and vacuum deposited OLEDs: A computational approach. Journal of Chemical Physics, 2022, 156, .	1.2	8
7	Power losses in conventional and inverted non-polymeric donor:fullerene bulk heterojunction solar cells - The role of vertical phase separation in BQR:PC71BM blends. Organic Electronics, 2022, 108, 106594.	1.4	0
8	Extremely efficient flexible organic solar cells with a graphene transparent anode: Dependence on number of layers and doping of graphene. Carbon, 2021, 171, 350-358.	5.4	33
9	Preserving the work function of Ultra-Violet-ozone treated indium tin oxide by triarylamine-based small molecule modification for solution-processed organic light-emitting diodes with increased external quantum efficiency. Thin Solid Films, 2021, 718, 138475.	0.8	6
10	Floquet spin states in OLEDs. Nature Communications, 2021, 12, 465.	5.8	13
11	Engineering fluorinated-cation containing inverted perovskite solar cells with an efficiency of >21% and improved stability towards humidity. Nature Communications, 2021, 12, 52.	5.8	94
12	Acid is a potential interferent in fluorescent sensing of chemical warfare agent vapors. Communications Chemistry, 2021, 4, .	2.0	11
13	Unraveling exciton processes in Ir(ppy)3:CBP OLED films upon photoexcitation. Journal of Chemical Physics, 2021, 154, 164101.	1.2	9
14	Diffusion in Organic Film Stacks Containing Solution-Processed Phosphorescent Poly(dendrimer) Dopants. ACS Applied Materials & Interfaces, 2021, 13, 30910-30920.	4.0	2
15	Measuring the Magnetic Field Amplitude of rf Radiation by the Quasistatic Magnetic Field Effect in Organic Light-Emitting Diodes. Physical Review Applied, 2021, 15, .	1.5	7
16	Balanced Hole and Electron Transport in Ir(ppy)₃:TCTA Blends. ACS Photonics, 2021, 8, 2425-2430.	3.2	12
17	Effect of Host Generation on the Luminescent and Charge Transporting Properties of Solution Processed OLEDs. Advanced Materials Interfaces, 2021, 8, 2100820.	1.9	6
18	Effect of dendrimer surface groups on the properties of phosphorescent emissive films. Organic Electronics, 2021, 99, 106321.	1.4	4

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19	A solution-processed bis-tridentate iridium(<scp>iii</scp>) complex-cored dendrimer for green OLEDs. Journal of Materials Chemistry C, 2021, 9, 9545-9554.	2.7	10
20	Emissive Material Optimization for Solution-Processed Exciplex OLEDs. ACS Applied Electronic Materials, 2021, 3, 4757-4767.	2.0	3
21	Effect of dendron structure on the luminescent and charge transporting properties of solution processed dendrimer-based OLEDs. Journal of Materials Chemistry C, 2021, 9, 16033-16043.	2.7	4
22	Hole-transporting materials for low donor content organic solar cells: Charge transport and device performance. Organic Electronics, 2020, 76, 105480.	1.4	6
23	Challenges in Fluorescence Detection of Chemical Warfare Agent Vapors Using Solidâ€State Films. Advanced Materials, 2020, 32, e1905785.	11.1	64
24	A red emissive poly(dendrimer) for solution processed organic light-emitting diodes. Organic Electronics, 2020, 78, 105594.	1.4	8
25	Revealing the Interplay between Charge Transport, Luminescence Efficiency, and Morphology in Organic Lightâ€Emitting Diode Blends. Advanced Functional Materials, 2020, 30, 1907942.	7.8	28
26	Precursor Route Poly(1,4-phenylenevinylene)-Based Interlayers for Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 889-899.	2.5	11
27	Defect/Interface Recombination Limited Quasi-Fermi Level Splitting and Open-Circuit Voltage in Mono- and Triple-Cation Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 37647-37656.	4.0	28
28	A three-dimensional multi-chromophore naphthalene diimide acceptor for polymer bulk heterojunction solar cells. Synthetic Metals, 2020, 268, 116505.	2.1	2
29	Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. Macromolecules, 2020, 53, 10375-10385.	2.2	25
30	Pyrrolo[3,2-b]pyrrole-1,4-dione (IsoDPP) End Capped with Napthalimide or Phthalimide: Novel Small Molecular Acceptors for Organic Solar Cells. Molecules, 2020, 25, 4700.	1.7	5
31	White Dendrimer Organic Light Emitting Diodes: Exciton Formation and Transfer. Advanced Optical Materials, 2020, 8, 2001289.	3.6	11
32	Dicyanovinyl-based fluorescent sensors for dual mechanism amine sensing. Journal of Materials Chemistry C, 2020, 8, 13723-13732.	2.7	33
33	Luminescent poly(dendrimer)s for the detection of explosives. Materials Advances, 2020, 1, 837-844.	2.6	8
34	Evolution and Morphology of Thin Films Formed by Solvent Evaporation: An Organic Semiconductor Case Study. ACS Applied Materials & Interfaces, 2020, 12, 40548-40557.	4.0	17
35	Determining the Correlation between Excited State Dynamics and Donor and Acceptor Structure in Nonfullerene Acceptors. Journal of Physical Chemistry C, 2020, 124, 17851-17863.	1.5	1
36	Annealing-enhanced birefringence and aggregation in MEH-PPV: A spectroscopic ellipsometry study. Journal of Applied Physics, 2020, 127, .	1.1	5

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37	Perdeuterated Conjugated Polymers for Ultralowâ€Frequency Magnetic Resonance of OLEDs. Angewandte Chemie - International Edition, 2020, 59, 9388-9392.	7.2	12
38	Perdeuteration of poly[2-methoxy-5-(2â€²-ethylhexyloxy)-1,4-phenylenevinylene] (d-MEH-PPV): control of microscopic charge-carrier spinâ€“spin coupling and of magnetic-field effects in optoelectronic devices. Journal of Materials Chemistry C, 2020, 8, 2764-2771.	2.7	13
39	High-Sensitivity Poly(dendrimer)-Based Sensors for the Detection of Explosives and Taggant Vapors. Macromolecules, 2020, 53, 1652-1664.	2.2	19
40	Hole-Transporting Poly(dendrimer)s as Electron Donors for Low Donor Organic Solar Cells with Efficient Charge Transport. Macromolecules, 2020, 53, 2902-2911.	2.2	5
41	Properties of PDMS-divinylbenzene based pre-concentrators for nitroaromatic vapors. Journal of Materials Chemistry C, 2020, 8, 16967-16973.	2.7	4
42	Effect of Surface Roughness on Light-Absorber Orientation in an Organic Photovoltaic Film. Chemistry of Materials, 2019, 31, 6918-6924.	3.2	3
43	Charge transport in an organic light emitting diode material measured using metal-insulator-semiconductor charge extraction by linearly increasing voltage with parameter variation. Journal of Applied Physics, 2019, 126, .	1.1	16
44	Flexible ITOâ€Free Organic Photovoltaics on Ultraâ€Thin Flexible Glass Substrates with High Efficiency and Improved Stability. Solar Rrl, 2019, 3, 1800286.	3.1	5
45	The Role of Bulk and Interface Recombination in Highâ€Efficiency Lowâ€Dimensional Perovskite Solar Cells. Advanced Materials, 2019, 31, e1901090.	11.1	59
46	A Double Support Layer for Facile Clean Transfer of Two-Dimensional Materials for High-Performance Electronic and Optoelectronic Devices. ACS Nano, 2019, 13, 5513-5522.	7.3	29
47	Calculating transition dipole moments of phosphorescent emitters for efficient organic light-emitting diodes. Physical Chemistry Chemical Physics, 2019, 21, 9740-9746.	1.3	7
48	Grapheneâ€Based Transparent Conducting Electrodes for High Efficiency Flexible Organic Photovoltaics: Elucidating the Source of the Power Losses. Solar Rrl, 2019, 3, 1900042.	3.1	13
49	Understanding charge transport in Ir(ppy)3:CBP OLED films. Journal of Chemical Physics, 2019, 150, 094110.	1.2	25
50	Sensitive and fast fluorescence-based indirect sensing of TATP. RSC Advances, 2019, 9, 7032-7042.	1.7	7
51	Organic light-emitting diodes comprising highly luminescent red-emitting dendrimers with carbazole-based dendrons. Journal of Materials Chemistry C, 2019, 7, 4681-4691.	2.7	14
52	9,9â€²-Bifluorenylidene-diketopyrrolopyrrole donors for non-polymeric solution processed solar cells. Synthetic Metals, 2019, 250, 79-87.	2.1	0
53	Elucidating the effects of guest-host energy level alignment on charge transport in phosphorescent OLEDs. Applied Physics Letters, 2019, 115, 263301.	1.5	11
54	Solid-State Fluorescence-based Sensing of TATP via Hydrogen Peroxide Detection. ACS Sensors, 2019, 4, 134-142.	4.0	33

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55	Mixed Domains Enhance Charge Generation and Extraction in Bulkâ€Heterojunction Solar Cells with Smallâ€Molecule Donors. Advanced Energy Materials, 2018, 8, 1702941.	10.2	43
56	Investigating charge generation in polymer:non-fullerene acceptor bulk heterojunction films. Organic Electronics, 2018, 55, 177-186.	1.4	2
57	Morphology of OLED Film Stacks Containing Solution-Processed Phosphorescent Dendrimers. ACS Applied Materials & Interfaces, 2018, 10, 3848-3855.	4.0	7
58	Recombination Losses Above and Below the Transport Percolation Threshold in Bulk Heterojunction Organic Solar Cells. Advanced Energy Materials, 2018, 8, 1703339.	10.2	16
59	Influence of Dopant Concentration and Steric Bulk on Interlayer Diffusion in OLEDs. Advanced Materials Interfaces, 2018, 5, 1700872.	1.9	7
60	An external quantum efficiency of >20% from solution-processed poly(dendrimer) organic light-emitting diodes. Npj Flexible Electronics, 2018, 2, .	5.1	29
61	Twisted dendrons for highly luminescent green emissive phosphorescent dendrimers. Journal of Materials Chemistry C, 2018, 6, 10315-10326.	2.7	13
62	Loss Mechanisms in Fullerene-Based Low-Donor Content Organic Solar Cells. Journal of Physical Chemistry C, 2018, 122, 20611-20618.	1.5	9
63	Effect of precursor macromonomer molecular weight on poly(dimethylsiloxane) film morphology and nitroaromatic vapor sorption. Sensors and Actuators B: Chemical, 2018, 270, 283-290.	4.0	2
64	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21681-21687.	4.0	89
65	Application of an Aâ€“Aâ€²â€“A-Containing Acceptor Polymer in Sequentially Deposited All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 24046-24054.	4.0	16
66	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. Nature Energy, 2018, 3, 847-854.	19.8	721
67	Morphology of a Bulk Heterojunction Photovoltaic Cell with Low Donor Concentration. ACS Applied Materials & Interfaces, 2018, 10, 32413-32419.	4.0	24
68	A thiocarbonyl-containing small molecule for optoelectronics. RSC Advances, 2017, 7, 10316-10322.	1.7	10
69	Synthesis of grafted poly(p- phenyleneethynylene) via ARGET ATRP: Towards nonaggregating and photoluminescence materials. European Polymer Journal, 2017, 89, 263-271.	2.6	11
70	Elucidating the Spatial Arrangement of Emitter Molecules in Organic Lightâ€Emitting Diode Films. Angewandte Chemie - International Edition, 2017, 56, 8402-8406.	7.2	40
71	A Triarylamine-Based Anode Modifier for Efficient Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 9096-9101.	4.0	10
72	Elucidating the Spatial Arrangement of Emitter Molecules in Organic Lightâ€Emitting Diode Films. Angewandte Chemie, 2017, 129, 8522-8526.	1.6	1

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73	Dependence of Organic Interlayer Diffusion on Glass-Transition Temperature in OLEDs. ACS Applied Materials & Interfaces, 2017, 9, 14153-14161.	4.0	38
74	Effect of n-propyl substituents on the emission properties of blue phosphorescent iridium(iii) complexes. Journal of Chemical Physics, 2017, 146, 174305.	1.2	5
75	Considerations for Upscaling of Organohalide Perovskite Solar Cells. Advanced Optical Materials, 2017, 5, 1600819.	3.6	18
76	The structural impact of water sorption on device-quality melanin thin films. Soft Matter, 2017, 13, 3954-3965.	1.2	21
77	Engineering dielectric constants in organic semiconductors. Journal of Materials Chemistry C, 2017, 5, 3736-3747.	2.7	50
78	Host-Free Blue Phosphorescent Dendrimer Organic Light-Emitting Field-Effect Transistors and Equivalent Light-Emitting Diodes: A Comparative Study. ACS Photonics, 2017, 4, 754-760.	3.2	27
79	Relating Structure to Efficiency in Surfactant-Free Polymer/Fullerene Nanoparticle-Based Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 42986-42995.	4.0	21
80	How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. Journal of Materials Chemistry A, 2017, 5, 22542-22558.	5.2	70
81	Charge Generation in Non-Fullerene Donorâ€“Acceptor Blends for Organic Solar Cells. Journal of Physical Chemistry C, 2017, 121, 18412-18422.	1.5	7
82	Real-time fluorescence quenching-based detection of nitro-containing explosive vapours: what are the key processes?. Physical Chemistry Chemical Physics, 2017, 19, 29714-29730.	1.3	49
83	The Molecular Origin of Anisotropic Emission in an Organic Light-Emitting Diode. Nano Letters, 2017, 17, 6464-6468.	4.5	33
84	Effect of capping group on the properties of non-polymeric diketopyrrolopyrroles for solution-processed bulk heterojunction solar cells. Organic Electronics, 2017, 50, 339-346.	1.4	3
85	Electric Field and Mobility Dependent Firstâ€Order Recombination Losses in Organic Solar Cells. Advanced Energy Materials, 2017, 7, 1601379.	10.2	31
86	Assessing the sensing limits of fluorescent dendrimer thin films for the detection of explosive vapors. Sensors and Actuators B: Chemical, 2017, 239, 727-733.	4.0	14
87	Efficient organic photovoltaic cells on a single layer graphene transparent conductive electrode using MoO_xas an interfacial layer. Nanoscale, 2017, 9, 251-257.	2.8	26
88	On the unipolarity of charge transport in methanofullerene diodes. Npj Flexible Electronics, 2017, 1, .	5.1	17
89	An Hydrophilic Anode Interlayer for Solution Processed Organohalide Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1500420.	1.9	20
90	Diffusion at Interfaces in OLEDs Containing a Doped Phosphorescent Emissive Layer. Advanced Materials Interfaces, 2016, 3, 1600184.	1.9	17

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91	Acceptor and Excitation Density Dependence of the Ultrafast Polaron Absorption Signal in Donorâ€“Acceptor Organic Solar Cell Blends. Journal of Physical Chemistry Letters, 2016, 7, 2640-2646.	2.1	14
92	Thiophene dendrimer-based low donor content solar cells. Applied Physics Letters, 2016, 109, .	1.5	14
93	AZO/Ag/AZO anode for resonant cavity red, blue, and yellow organic light emitting diodes. Journal of Applied Physics, 2016, 119, 245501.	1.1	5
94	Bond Fission and Non-Radiative Decay in Iridium(III) Complexes. Inorganic Chemistry, 2016, 55, 5266-5273.	1.9	49
95	Detection of Explosive Vapors: The Roles of Exciton and Molecular Diffusion in Realâ€Time Sensing. ChemPhysChem, 2016, 17, 3350-3353.	1.0	16
96	Photophysics of detection of explosive vapours via luminescence quenching of thin films: impact of inter-molecular interactions. Physical Chemistry Chemical Physics, 2016, 18, 25861-25868.	1.3	7
97	Highly processable, rubbery poly(n-butyl acrylate) grafted poly(phenylene vinylene)s. European Polymer Journal, 2016, 84, 355-365.	2.6	14
98	Efficient, monolithic large area organohalide perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 13830-13836.	5.2	47
99	Orangeâ€Redâ€Lightâ€Emitting Fieldâ€Effect Transistors Based on Phosphorescent Pt(II) Complexes with Area Emission. Advanced Optical Materials, 2016, 4, 1867-1874.	3.6	15
100	Near infrared photodetectors based on subâ€gap absorption in organohalide perovskite single crystals. Laser and Photonics Reviews, 2016, 10, 1047-1053.	4.4	64
101	Electrochemically tuneable multi-colour electrochemiluminescence using a single emitter. Chemical Science, 2016, 7, 6974-6980.	3.7	29
102	Detection of Explosive Vapors: The Roles of Exciton and Molecular Diffusion in Real-Time Sensing. ChemPhysChem, 2016, 17, 3345-3345.	1.0	0
103	Slower carriers limit charge generation in organic semiconductor light-harvesting systems. Nature Communications, 2016, 7, 11944.	5.8	65
104	Impact of Dimerization on Phase Separation and Crystallinity in Bulk Heterojunction Films Containing Non-Fullerene Acceptors. Macromolecules, 2016, 49, 4404-4415.	2.2	23
105	Charge Generation Pathways in Organic Solar Cells: Assessing the Contribution from the Electron Acceptor. Chemical Reviews, 2016, 116, 12920-12955.	23.0	197
106	Organic Photodiodes: The Future of Full Color Detection and Image Sensing. Advanced Materials, 2016, 28, 4766-4802.	11.1	599
107	Exact exchange and the density functional theory of metal-to-ligand charge-transfer in fac-Ir(ppy)3. Organic Electronics, 2016, 33, 110-115.	1.4	11
108	The synthesis and ring-opening metathesis polymerization of glycomonomers. RSC Advances, 2016, 6, 31256-31264.	1.7	6

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109	Organohalide Perovskites for Solar Energy Conversion. Accounts of Chemical Research, 2016, 49, 545-553.	7.6	135
110	Phosphorescence quenching of fac-tris(2-phenylpyridyl)iridium(<scp>iii</scp>) complexes in thin films on dielectric surfaces. Physical Chemistry Chemical Physics, 2016, 18, 3575-3580.	1.3	6
111	An overview of the Australian Centre for Advanced Photovoltaics and the Australia-US Institute for Advanced Photovoltaics. Materials Research Society Symposia Proceedings, 2015, 1771, 33-44.	0.1	1
112	Hybrid Areaâ€Emitting Transistors: Solution Processable and with High Aperture Ratios. Advanced Materials, 2015, 27, 6677-6682.	11.1	42
113	Bulk heterojunction thickness uniformity â€“ a limiting factor in large area organic solar cells?. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2246-2254.	0.8	17
114	Pathway to high throughput, low cost indium-free transparent electrodes. Journal of Materials Chemistry A, 2015, 3, 13892-13899.	5.2	15
115	Diffusion of nitroaromatic vapours into fluorescent dendrimer films for explosives detection. Sensors and Actuators B: Chemical, 2015, 210, 550-557.	4.0	24
116	Efficient and bright polymer light emitting field effect transistors. Organic Electronics, 2015, 17, 371-376.	1.4	25
117	Low Noise, IRâ€Blind Organohalide Perovskite Photodiodes for Visible Light Detection and Imaging. Advanced Materials, 2015, 27, 2060-2064.	11.1	271
118	Narrowband light detection via internal quantum efficiency manipulation of organic photodiodes. Nature Communications, 2015, 6, 6343.	5.8	406
119	Charge transport and recombination in heterostructure organic light emitting transistors. Organic Electronics, 2015, 25, 37-43.	1.4	8
120	Dielectric constant enhancement of non-fullerene acceptors via side-chain modification. Chemical Communications, 2015, 51, 14115-14118.	2.2	49
121	Defining the light emitting area for displays in the unipolar regime of highly efficient light emitting transistors. Scientific Reports, 2015, 5, 8818.	1.6	35
122	Photocarrier drift distance in organic solar cells and photodetectors. Scientific Reports, 2015, 5, 9949.	1.6	81
123	Planar silver nanowire, carbon nanotube and PEDOT:PSS nanocomposite transparent electrodes. Science and Technology of Advanced Materials, 2015, 16, 025002.	2.8	24
124	Room-temperature tilted-target sputtering deposition of highly transparent and low sheet resistance Al doped ZnO electrodes. Journal of Materials Chemistry C, 2015, 3, 5322-5331.	2.7	15
125	Simultaneous enhancement of charge generation quantum yield and carrier transport in organic solar cells. Journal of Materials Chemistry C, 2015, 3, 10799-10812.	2.7	25
126	Unambiguous detection of nitrated explosive vapours by fluorescence quenching of dendrimer films. Nature Communications, 2015, 6, 8240.	5.8	75

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127	Hybrid light emitting transistors (Presentation Recording). , 2015, , .		0
128	Analysis of the emitting states of an Ir(III) complex with strong blue emission. Chemical Physics Letters, 2015, 641, 62-67.	1.2	6
129	Interplay of Zero-Field Splitting and Excited State Geometry Relaxation in fac-Ir(ppy)₃. Inorganic Chemistry, 2015, 54, 10457-10461.	1.9	16
130	Solution-processed non-polymeric organic photodiodes. Proceedings of SPIE, 2015, , .	0.8	0
131	Molecular versus exciton diffusion in fluorescence-based explosive vapour sensors. Chemical Communications, 2015, 51, 17406-17409.	2.2	15
132	Conditions for charge transport without recombination in low mobility organic solar cells and photodiodes (Presentation Recording). , 2015, , .		0
133	Quantitative real time sensing reveals enhanced sensitivity of polar dendrimer thin films for plastic explosive taggants. Journal of Materials Chemistry C, 2015, 3, 9412-9424.	2.7	2
134	Filterless narrowband visible photodetectors. Nature Photonics, 2015, 9, 687-694.	15.6	445
135	The spin-Dicke effect in OLED magnetoresistance. Nature Physics, 2015, 11, 910-914.	6.5	39
136	Clustering of High Molecular Weight PCDTBT in Bulk-Heterojunction Casting Solutions. Macromolecules, 2015, 48, 8331-8336.	2.2	15
137	Electro-Optics of Conventional and Inverted Thick Junction Organic Solar Cells. ACS Photonics, 2015, 2, 1745-1754.	3.2	40
138	Charge Transport without Recombination in Organic Solar Cells and Photodiodes. Journal of Physical Chemistry C, 2015, 119, 26866-26874.	1.5	28
139	Tuning the Optoelectronic Properties of Nonfullerene Electron Acceptors. ChemPhysChem, 2015, 16, 1295-1304.	1.0	12
140	Electro-optics of perovskite solar cells. Nature Photonics, 2015, 9, 106-112.	15.6	1,485
141	Optimized multilayer indium-free electrodes for organic photovoltaics. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 348-355.	0.8	8
142	Time-independent charge carrier mobility in a model polymer:fullerene organic solar cell. Organic Electronics, 2015, 16, 205-211.	1.4	11
143	Efficient, Large Area, and Thick Junction Polymer Solar Cells with Balanced Mobilities and Low Defect Densities. Advanced Energy Materials, 2015, 5, 1401221.	10.2	80
144	Highâ€Performance, Solutionâ€Processed Nonâ€polymeric Organic Photodiodes. Advanced Optical Materials, 2015, 3, 50-56.	3.6	43

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145	Energetic requirements of iridium(<scp>iii</scp>) complex based photosensitisers in photocatalytic hydrogen generation. Physical Chemistry Chemical Physics, 2014, 16, 21577-21585.	1.3	17
146	The development of dendronized polymers containing phosphorescent iridium(III) complexes for solution-processable OLED Devices. , 2014, , .		0
147	High mobility solution-processed hybrid light emitting transistors. Applied Physics Letters, 2014, 105, 183302.	1.5	29
148	Balanced Carrier Mobilities: Not a Necessary Condition for Highâ€Efficiency Thin Organic Solar Cells as Determined by MISâ€CELIV. Advanced Energy Materials, 2014, 4, 1300954.	10.2	129
149	ITO-free top emitting organic light emitting diodes with enhanced light out-coupling. Laser and Photonics Reviews, 2014, 8, 165-171.	4.4	36
150	Molecular weight dependent bimolecular recombination in organic solar cells. Journal of Chemical Physics, 2014, 141, 054903.	1.2	21
151	Pentacene/K12 solar cells formed by organic vapor phase deposition. Journal of Photonics for Energy, 2014, 4, 043092.	0.8	0
152	Tuning the optoelectronic properties of cyanine and ketocyanine dyes by incorporation of 9,9-di-n-propylfluorenylindolenine. Dyes and Pigments, 2014, 101, 1-8.	2.0	13
153	Determination of Fullerene Scattering Length Density: A Critical Parameter for Understanding the Fullerene Distribution in Bulk Heterojunction Organic Photovoltaic Devices. Langmuir, 2014, 30, 1410-1415.	1.6	19
154	Solution-processed pentathiophene dendrimer based photodetectors for digital cameras. Sensors and Actuators B: Chemical, 2014, 196, 245-251.	4.0	16
155	Solution structure: defining polymer film morphology and optoelectronic device performance. Journal of Materials Chemistry C, 2014, 2, 71-77.	2.7	21
156	Dynamics of Charge Generation and Transport in Polymer-Fullerene Blends Elucidated Using a PhotoFET Architecture. ACS Photonics, 2014, 1, 114-120.	3.2	16
157	Carbohydrate globules: molecular asterisk-cored dendrimers for carbohydrate presentation. Polymer Chemistry, 2014, 5, 1173-1179.	1.9	8
158	Synthesis and properties of pyrrolo[3,2-b]pyrrole-1,4-diones (isoDPP) derivatives. Journal of Materials Chemistry C, 2014, 2, 4276.	2.7	13
159	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. Applied Physics Letters, 2014, 105, .	1.5	36
160	Spectral Dependence of the Internal Quantum Efficiency of Organic Solar Cells: Effect of Charge Generation Pathways. Journal of the American Chemical Society, 2014, 136, 11465-11472.	6.6	83
161	Time-Resolved Neutron Reflectometry and Photovoltaic Device Studies on Sequentially Deposited PCDTBT-Fullerene Layers. Langmuir, 2014, 30, 11474-11484.	1.6	35
162	Improved stability of non-ITO stacked electrodes for large area flexible organic solar cells. Solar Energy Materials and Solar Cells, 2014, 130, 182-190.	3.0	20

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163	Thick junction broadband organic photodiodes. Laser and Photonics Reviews, 2014, 8, 924-932.	4.4	212
164	Worldwide outdoor round robin study of organic photovoltaic devices and modules. Solar Energy Materials and Solar Cells, 2014, 130, 281-290.	3.0	23
165	Room-temperature coupling between electrical current and nuclear spins in OLEDs. Science, 2014, 345, 1487-1490.	6.0	84
166	High-Mobility, Heterostructure Light-Emitting Transistors and Complementary Inverters. ACS Photonics, 2014, 1, 954-959.	3.2	22
167	Narrow band green organic photodiodes for imaging. Organic Electronics, 2014, 15, 2903-2911.	1.4	118
168	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. ACS Photonics, 2014, 1, 173-181.	3.2	137
169	Free Carrier Generation in Organic Photovoltaic Bulk Heterojunctions of Conjugated Polymers with Molecular Acceptors: Planar versus Spherical Acceptors. ChemPhysChem, 2014, 15, 1539-1549.	1.0	27
170	All Solutionâ€Processed, Hybrid Light Emitting Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 6410-6415.	11.1	76
171	Impact of Acceptor Crystallinity on the Photophysics of Nonfullerene Blends for Organic Solar Cells. Journal of Physical Chemistry C, 2014, 118, 13460-13466.	1.5	11
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