Paul L Burn

List of Publications by Year
in descending order

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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	Light-emitting diodes based on conjugated polymers. Nature, 1990, 347, 539-541.	13.7	10,985
2	Electro-optics of perovskite solar cells. Nature Photonics, 2015, 9, 106-112.	15.6	1,485
3	Chemical tuning of electroluminescent copolymers to improve emission efficiencies and allow patterning. Nature, 1992, 356, 47-49.	13.7	748
4	Visualization and suppression of interfacial recombination for high-efficiency large-area pin perovskite solar cells. Nature Energy, 2018, 3, 847-854.	19.8	721
5	Development of Dendrimers:Â Macromolecules for Use in Organic Light-Emitting Diodes and Solar Cells. Chemical Reviews, 2007, 107, 1097-1116.	23.0	715
6	Poly(pâ€phenylenevinylene) lightâ€emitting diodes: Enhanced electroluminescent efficiency through charge carrier confinement. Applied Physics Letters, 1992, 61, 2793-2795.	1.5	683
7	Organic Photodiodes: The Future of Full Color Detection and Image Sensing. Advanced Materials, 2016, 28, 4766-4802.	11.1	599
8	The Development of Light-Emitting Dendrimers for Displays. Advanced Materials, 2007, 19, 1675-1688.	11.1	460
9	Filterless narrowband visible photodetectors. Nature Photonics, 2015, 9, 687-694.	15.6	445
10	Narrowband light detection via internal quantum efficiency manipulation of organic photodiodes. Nature Communications, 2015, 6, 6343.	5.8	406
11	Photoexcited states in poly(p-phenylene vinylene): Comparison withtrans,trans-distyrylbenzene, a model oligomer. Physical Review B, 1990, 42, 11670-11681.	1.1	272
12	Low Noise, IRâ€Blind Organohalide Perovskite Photodiodes for Visible Light Detection and Imaging. Advanced Materials, 2015, 27, 2060-2064.	11.1	271
13	Conjugated Dendrimers for Light-Emitting Diodes: Effect of Generation. Advanced Materials, 1999, 11, 371-374.	11.1	249
14	Chemical tuning of the electronic properties of poly(p-phenylenevinylene)-based copolymers. Journal of the American Chemical Society, 1993, 115, 10117-10124.	6.6	236
15	Morphology of Allâ€Solutionâ€Processed â€œBilayerâ€•Organic Solar Cells. Advanced Materials, 2011, 23, 766-770.	11.1	228
16	Optical spectroscopy of highly ordered poly(p-phenylene vinylene). Journal of Physics Condensed Matter, 1993, 5, 7155-7172.	0.7	227
17	High-efficiency green phosphorescence from spin-coated single-layer dendrimer light-emitting diodes. Applied Physics Letters, 2002, 80, 2645-2647.	1.5	227
18	Blue Phosphorescence from Iridium(III) Complexes at Room Temperature. Chemistry of Materials, 2006, 18, 5119-5129.	3.2	221

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19	Thick junction broadband organic photodiodes. Laser and Photonics Reviews, 2014, 8, 924-932.	4.4	212
20	An approach to porphyrin-based molecular wires: synthesis of a bis(porphyrin)tetraone and its conversion to a linearly conjugated tetrakisporphyrin system. Journal of the Chemical Society Chemical Communications, 1991, , 1569.	2.0	200
21	Charge Generation Pathways in Organic Solar Cells: Assessing the Contribution from the Electron Acceptor. Chemical Reviews, 2016, 116, 12920-12955.	23.0	197
22	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
23	Conformational effects in poly(p-phenylene vinylene)s revealed by low-temperature site-selective fluorescence. Journal of Physics Condensed Matter, 1993, 5, 247-260.	0.7	189
24	High-Triplet-Energy Dendrons: Enhancing the Luminescence of Deep Blue Phosphorescent Iridium(III) Complexes. Journal of the American Chemical Society, 2009, 131, 16681-16688.	6.6	188
25	Solution-Processable Red Phosphorescent Dendrimers for Light-Emitting Device Applications. Advanced Materials, 2004, 16, 557-560.	11.1	175
26	Singlet exciton diffusion in MEH-PPV films studied by excitonâ€“exciton annihilation. Organic Electronics, 2006, 7, 452-456.	1.4	164
27	Synthesis and Properties of Highly Efficient Electroluminescent Green Phosphorescent Iridium Cored Dendrimers. Macromolecules, 2003, 36, 9721-9730.	2.2	155
28	Encapsulated Cores: Host-Free Organic Light-Emitting Diodes Based on Solution-Processible Electrophosphorescent Dendrimers. Advanced Materials, 2005, 17, 1945-1948.	11.1	148
29	Efficient, Large Area ITOâ€andâ€PEDOTâ€free Organic Solar Cell Subâ€modules. Advanced Materials, 2012, 24, 2572-2577.	11.1	148
30	A Small Molecule Nonâ€fullerene Electron Acceptor for Organic Solar Cells. Advanced Energy Materials, 2011, 1, 73-81.	10.2	147
31	The efficiency and time-dependence of luminescence from poly (p-phenylene vinylene) and derivatives. Chemical Physics Letters, 1993, 213, 472-478.	1.2	146
32	A Light-Blue Phosphorescent Dendrimer for Efficient Solution-ProcessedÂLight-Emitting Diodes. Advanced Functional Materials, 2005, 15, 1451-1458.	7.8	146
33	Electroluminescence from multilayer conjugated polymer devices: Spatial control of exciton formation and emission. Chemical Physics Letters, 1992, 200, 46-54.	1.2	142
34	Control of Charge Transport and Intermolecular Interaction in Organic Light-Emitting Diodes by Dendrimer Generation. Advanced Materials, 2001, 13, 258-261.	11.1	140
35	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. ACS Photonics, 2014, 1, 173-181.	3.2	137
36	Organohalide Perovskites for Solar Energy Conversion. Accounts of Chemical Research, 2016, 49, 545-553.	7.6	135

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37	Explosive Sensing with Fluorescent Dendrimers: The Role of Collisional Quenching. Chemistry of Materials, 2011, 23, 789-794.	3.2	134
38	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
39	Highly efficient single-layer dendrimer light-emitting diodes with balanced charge transport. Applied Physics Letters, 2003, 82, 4824-4826.	1.5	128
40	Electroluminescence-detected magnetic-resonance study of polyparaphenylenevinylene (PPV)-based light-emitting diodes. Physical Review B, 1992, 46, 15072-15077.	1.1	123
41	Narrow band green organic photodiodes for imaging. Organic Electronics, 2014, 15, 2903-2911.	1.4	118
42	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
43	Photophysics of Fac-Tris(2-Phenylpyridine) Iridium(III) Cored Electroluminescent Dendrimers in Solution and Films. Journal of Physical Chemistry B, 2004, 108, 1570-1577.	1.2	115
44	Triplet exciton diffusion in fac-tris(2-phenylpyridine) iridium(III)-cored electroluminescent dendrimers. Applied Physics Letters, 2005, 86, 091104.	1.5	114
45	Photoluminescence and electroluminescence in conjugated polymeric systems. Synthetic Metals, 1993, 57, 4031-4040.	2.1	111
46	Investigations of excitation energy transfer and intramolecular interactions in a nitrogen corded distrylbenzene dendrimer system. Journal of Chemical Physics, 2002, 116, 8893-8903.	1.2	111
47	A Facile Iterative Procedure for the Preparation of Dendrimers Containing Luminescent Cores and Stilbene Dendrons. Macromolecules, 1999, 32, 5985-5993.	2.2	110
48	A Narrow Optical Gap Small Molecule Acceptor for Organic Solar Cells. Advanced Energy Materials, 2013, 3, 54-59.	10.2	107
49	Ultrafast depolarization of the fluorescence in a conjugated polymer. Physical Review B, 2005, 72, .	1.1	105
50	Rigid, laterally-bridged bis-porphyrin system. Journal of the Chemical Society Chemical Communications, 1987, , 39.	2.0	104
51	Solutionâ€Processible Phosphorescent Blue Dendrimers Based on Biphenylâ€Dendrons and Facâ€tris(phenyltriazolyl)iridium(III) Cores. Advanced Functional Materials, 2008, 18, 3080-3090.	7.8	104
52	Large changes in optical response through chemical pre-ordering of poly(p-phenylenevinylene). Advanced Materials, 1993, 5, 40-43.	11.1	103
53	Conformational disorder and energy migration in MEH-PPV with partially broken conjugation. Journal of Chemical Physics, 2003, 118, 7644.	1.2	99
54	Control of mobility in molecular organic semiconductors by dendrimer generation. Physical Review B, 2001, 63, .	1.1	98

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55	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
56	Photoinduced absorption and photoluminescence in poly(2,5-dimethoxy-p-phenylene vinylene). Physical Review B, 1992, 46, 7379-7389.	1.1	90
57	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21681-21687.	4.0	89
58	Linear and nonlinear optical properties of the conjugated polymers PPV and MEH-PPV. Physical Review B, 1999, 59, 15133-15142.	1.1	85
59	Control of Electrophosphorescence in Conjugated Dendrimer Light-Emitting Diodes. Advanced Functional Materials, 2001, 11, 287-294.	7.8	85
60	Porphyrins with appended phenanthroline units: a means by which porphyrin Ï€-systems can be connected to an external redox centre. Journal of the Chemical Society Chemical Communications, 1995, , 1921-1923.	2.0	84
61	Fluorescent carbazole dendrimers for the detection of explosives. Polymer Chemistry, 2011, 2, 2360.	1.9	84
62	Room-temperature coupling between electrical current and nuclear spins in OLEDs. Science, 2014, 345, 1487-1490.	6.0	84
63	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
64	Charge injection and transport in poly(p-phenylene vinylene) light emitting diodes. Synthetic Metals, 1993, 57, 4128-4133.	2.1	82
65	Regiospecific introduction of four substituents to porphyrin systems at antipodal pyrrolenic positions. Journal of the Chemical Society Chemical Communications, 1991, , 1564.	2.0	81
66	Origin of line broadening in the electronic absorption spectra of conjugated polymers: Three-pulse-echo studies of MEH-PPV in toluene. Physical Review B, 2000, 61, 13670-13678.	1.1	81
67	Photocarrier drift distance in organic solar cells and photodetectors. Scientific Reports, 2015, 5, 9949.	1.6	81
68	Amplified spontaneous emission and lasing properties of bisfluorene-cored dendrimers. Applied Physics Letters, 2007, 91, .	1.5	80
69	Highly Branched Phosphorescent Dendrimers for Efficient Solution-Processed Organic Light-Emitting Diodes. Advanced Functional Materials, 2007, 17, 1149-1152.	7.8	80
70	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
71	Simultaneous Enhancement of Brightness, Efficiency, and Switching in RGB Organic Light Emitting Transistors. Advanced Materials, 2013, 25, 6213-6218.	11.1	77
72	All Solutionâ€Processed, Hybrid Light Emitting Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 6410-6415.	11.1	76

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73	Unambiguous detection of nitrated explosive vapours by fluorescence quenching of dendrimer films. Nature Communications, 2015, 6, 8240.	5.8	75
74	Light-Emitting Diodes Based on Conjugated Polymers: Control of Colour and Efficiency. Materials Research Society Symposia Proceedings, 1992, 247, 647.	0.1	73
75	Spinâ€“Orbit Coupling in Phosphorescent Iridium(III) Complexes. ChemPhysChem, 2011, 12, 2429-2438.	1.0	73
76	A new method for the synthesis of porphyrin-Î±-diones that is applicable to the synthesis of trans-annular extended porphyrin systems. Journal of the Chemical Society Chemical Communications, 1991, , 1567-1568.	2.0	71
77	Time-resolved luminescence measurements in poly(p-phenylenevinylene). Synthetic Metals, 1993, 54, 281-288.	2.1	71
78	Effect of Dimensionality in Dendrimeric and Polymeric Fluorescent Materials for Detecting Explosives. Macromolecules, 2010, 43, 10253-10261.	2.2	70
79	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
80	Electroluminescence from a new distyrylbenzene based triazine dendrimer. Journal of Materials Chemistry, 2000, 10, 867-871.	6.7	69
81	Calculation of solid state molecular ionisation energies and electron affinities for organic semiconductors. Organic Electronics, 2011, 12, 394-403.	1.4	69
82	Colour selective organic photodetectors utilizing ketocyanine-cored dendrimers. Journal of Materials Chemistry C, 2013, 1, 3532.	2.7	69
83	Charge transport in highly efficient iridium cored electrophosphorescent dendrimers. Journal of Applied Physics, 2004, 95, 438-445.	1.1	68
84	Solid-State Dendrimer Sensors: Probing the Diffusion of an Explosive Analogue Using Neutron Reflectometry. Langmuir, 2009, 25, 12800-12805.	1.6	68
85	Experimental and Theoretical Studies of the Electronic Structure of Poly(p-phenylenevinylene) and Some Ring-Substituted Derivatives. Macromolecules, 1995, 28, 1959-1965.	2.2	65
86	Triplet Exciton Diffusion and Phosphorescence Quenching in Iridium(III)-Centered Dendrimers. Physical Review Letters, 2008, 100, 017402.	2.9	65
87	Slower carriers limit charge generation in organic semiconductor light-harvesting systems. Nature Communications, 2016, 7, 11944.	5.8	65
88	Near infrared photodetectors based on subâ€gap absorption in organohalide perovskite single crystals. Laser and Photonics Reviews, 2016, 10, 1047-1053.	4.4	64
89	Challenges in Fluorescence Detection of Chemical Warfare Agent Vapors Using Solidâ€State Films. Advanced Materials, 2020, 32, e1905785.	11.1	64
90	Solid-state-concentration effects on the optical absorption and emission of poly(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	1.1	63

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91	The synthesis and properties of solution processable red-emitting phosphorescent dendrimers. Journal of Materials Chemistry, 2004, 14, 2881.	6.7	63
92	Control of Charge Transport in Iridium(III) Complexâ€Cored Carbazole Dendrimers by Generation and Structural Modification. Advanced Functional Materials, 2009, 19, 317-323.	7.8	63
93	Control of Intrachromophore Excitonic Coherence in Electroluminescent Conjugated Dendrimers. Journal of Physical Chemistry B, 2002, 106, 7647-7653.	1.2	62
94	Surface plasmon-polariton mediated emission from phosphorescent dendrimer light-emitting diodes. Applied Physics Letters, 2006, 88, 161105.	1.5	62
95	A blue-emitting triazole-based conjugated polymer. Advanced Materials, 1997, 9, 1174-1178.	11.1	61
96	A Phosphorescent Poly(dendrimer) Containing Iridium(III) Complexes: Synthesis and Light-Emitting Properties. Macromolecules, 2010, 43, 6986-6994.	2.2	59
97	The Role of Bulk and Interface Recombination in Highâ€Efficiency Lowâ€Dimensional Perovskite Solar Cells. Advanced Materials, 2019, 31, e1901090.	11.1	59
98	Novel Heterolayer Organic Light-Emitting Diodes Based on a Conjugated Dendrimer. Advanced Functional Materials, 2002, 12, 507.	7.8	58
99	A rapid route to carbazole containing dendrons and phosphorescent dendrimers. Journal of Materials Chemistry, 2008, 18, 2121.	6.7	58
100	Controlling Hierarchy in Solutionâ€processed Polymer Solar Cells Based on Crosslinked P3HT. Advanced Energy Materials, 2013, 3, 105-112.	10.2	58
101	The impact of hot charge carrier mobility on photocurrent losses in polymer-based solar cells. Scientific Reports, 2014, 4, 5695.	1.6	58
102	Conjugated dendrimers for LEDs: Control of colour. Synthetic Metals, 1999, 102, 1113-1114.	2.1	57
103	Tuning of emission color for blue dendrimer blend light-emitting diodes. Applied Physics Letters, 2004, 85, 1463-1465.	1.5	57
104	Dopingâ€Induced Screening of the Builtâ€inâ€Field in Organic Solar Cells: Effect on Charge Transport and Recombination. Advanced Energy Materials, 2013, 3, 321-327.	10.2	54
105	Studies on the efficient synthesis of poly(phenylenevinylene) (PPV) and poly (dimethoxy) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.1	52
106	Extended Ï€-conjugation in poly(p-phenylenevinylene) from a chemically modified precursor polymer. Synthetic Metals, 1993, 55, 954-959.	2.1	51
107	Engineering dielectric constants in organic semiconductors. Journal of Materials Chemistry C, 2017, 5, 3736-3747.	2.7	50
108	Insoluble Poly [2-(2?-ethylhexyloxy)-5-methoxy-1,4-phenylenevinylene] for Use in Multilayer Light-Emitting Diodes. Advanced Materials, 1997, 9, 1171-1174.	11.1	49

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109	Tuning Hyperfine Fields in Conjugated Polymers for Coherent Organic Spintronics. Journal of the American Chemical Society, 2011, 133, 2019-2021.	6.6	49
110	Dielectric constant enhancement of non-fullerene acceptors via side-chain modification. Chemical Communications, 2015, 51, 14115-14118.	2.2	49
111	Bond Fission and Non-Radiative Decay in Iridium(III) Complexes. Inorganic Chemistry, 2016, 55, 5266-5273.	1.9	49
112	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
113	A New Electron-withdrawing Group Containing Poly(1,4-phenylenevinylene). Macromolecules, 1999, 32, 111-117.	2.2	48
114	Influence of molecular structure on the properties of dendrimer light-emitting diodes. Organic Electronics, 2003, 4, 71-76.	1.4	48
115	Effects of Fluorination on Iridium(III) Complex Phosphorescence: Magnetic Circular Dichroism and Relativistic Time-Dependent Density Functional Theory. Inorganic Chemistry, 2012, 51, 2821-2831.	1.9	48
116	Efficient, monolithic large area organohalide perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 13830-13836.	5.2	47
117	The synthesis and properties of iridium cored dendrimers with carbazole dendrons. Organic Electronics, 2006, 7, 85-98.	1.4	46
118	The Effect of Core Delocalization on Intermolecular Interactions in Conjugated Dendrimers. Advanced Functional Materials, 2003, 13, 211-218.	7.8	45
119	Investigating the Effect of Steric Crowding in Phosphorescent Dendrimers. Macromolecules, 2005, 38, 9564-9570.	2.2	45
120	Bright electroluminescence from a conjugated dendrimer. Applied Physics Letters, 2002, 81, 2285-2287.	1.5	44
121	Phosphorescent Lightâ€Emitting Transistors: Harvesting Triplet Excitons. Advanced Materials, 2009, 21, 4957-4961.	11.1	44
122	Investigating Morphology and Stability of Facâ€tris (2â€phenylpyridyl)iridium(III) Films for OLEDs. Advanced Functional Materials, 2011, 21, 2225-2231.	7.8	44
123	Highâ€Performance, Solutionâ€Processed Nonâ€polymeric Organic Photodiodes. Advanced Optical Materials, 2015, 3, 50-56.	3.6	43
124	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
125	Light emission from poly(p-phenylene vinylene): A comparison between photo- and electro-luminescence. Synthetic Metals, 1991, 43, 3135-3141.	2.1	42
126	Injected charge extraction by linearly increasing voltage for bimolecular recombination studies in organic solar cells. Applied Physics Letters, 2012, 101, 083306.	1.5	42

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127	Hybrid Areaâ€Emitting Transistors: Solution Processable and with High Aperture Ratios. Advanced Materials, 2015, 27, 6677-6682.	11.1	42
128	Chemosensing of 1,4-dinitrobenzene using bisfluorene dendrimer distributed feedback lasers. Applied Physics Letters, 2009, 95, .	1.5	41
129	The synthesis and characterisation of some poly(2,5-dialkoxy-1,4-phenylene vinylene)s. Synthetic Metals, 1993, 55, 914-917.	2.1	40
130	A new synthetic approach to porphyrin-Î±-diones and a -2,3,12,13-tetraone: building blocks for laterally conjugated porphyrin arrays. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 14-20.	1.3	40
131	Twoâ€Photon Absorption and Lasing in Firstâ€Generation Bisfluorene Dendrimers. Advanced Materials, 2008, 20, 1940-1944.	11.1	40
132	Electro-Optics of Conventional and Inverted Thick Junction Organic Solar Cells. ACS Photonics, 2015, 2, 1745-1754.	3.2	40
133	Elucidating the Spatial Arrangement of Emitter Molecules in Organic Lightâ€Emitting Diode Films. Angewandte Chemie - International Edition, 2017, 56, 8402-8406.	7.2	40
134	Relativistic effects in a phosphorescent Ir(III) complex. Physical Review B, 2011, 83, .	1.1	39
135	The spin-Dicke effect in OLED magnetoresistance. Nature Physics, 2015, 11, 910-914.	6.5	39
136	Solution processable phosphorescent rhenium(i) dendrimers. Journal of Materials Chemistry, 2007, 17, 4255.	6.7	38
137	The development of phenylethylene dendrons for blue phosphorescent emitters. Journal of Materials Chemistry, 2009, 19, 3213.	6.7	38
138	Mechanisms of Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. Critical Reviews in Solid State and Materials Sciences, 2011, 36, 16-45.	6.8	38
139	High-Generation Dendrimers with Excimer-like Photoluminescence for the Detection of Explosives. Journal of Physical Chemistry C, 2013, 117, 5328-5337.	1.5	38
140	Dependence of Organic Interlayer Diffusion on Glass-Transition Temperature in OLEDs. ACS Applied Materials & Interfaces, 2017, 9, 14153-14161.	4.0	38
141	Non-radiative decay mechanisms in blue phosphorescent iridium(III) complexes. Organic Electronics, 2008, 9, 377-384.	1.4	37
142	Nanostructured, Active Organicâ€“Metal Junctions for Highly Efficient Charge Generation and Extraction in Polymerâ€Fullerene Solar Cells. Advanced Materials, 2012, 24, 1055-1061.	11.1	37
143	Measuring internal quantum efficiency to demonstrate hot exciton dissociation. Nature Materials, 2013, 12, 593-593.	13.3	37
144	Hole-transporting compounds for multi-layer polymer light-emitting diodes. Synthetic Metals, 1993, 57, 4163-4167.	2.1	36

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145	Electroabsorption studies of PPV and MEH-PPV. Optical Materials, 1998, 9, 88-93.	1.7	36
146	Structureâ€“property relationships in conjugated molecules. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 85, 190-194.	1.7	36
147	The binding and fluorescence quenching efficiency of nitroaromatic (explosive) vapors in fluorescent carbazole dendrimer thin films. Physical Chemistry Chemical Physics, 2013, 15, 9845.	1.3	36
148	ITO-free top emitting organic light emitting diodes with enhanced light out-coupling. Laser and Photonics Reviews, 2014, 8, 165-171.	4.4	36
149	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. Applied Physics Letters, 2014, 105, .	1.5	36
150	Determination of the average molecular weigth of poly(P-phenylenevinylene). Synthetic Metals, 1993, 55, 902-907.	2.1	35
151	Optical studies of electric fields in poly(2-methoxy-5-ethyl (2â€²-hexyloxy) para-phenylene vinylene) light-emitting diodes. Applied Physics Letters, 1999, 74, 3714-3716.	1.5	35
152	Nondispersive hole transport in a spin-coated dendrimer film measured by the charge-generation-layer time-of-flight method. Applied Physics Letters, 2002, 81, 3266-3268.	1.5	35
153	Synthesis and Excited State Spectroscopy of Tris(distyrylbenzenyl)amine-cored Electroluminescent Dendrimers. Macromolecules, 2002, 35, 7891-7901.	2.2	35
154	Diffusion â€“ the Hidden Menace in Organic Optoelectronic Devices. Advanced Materials, 2012, 24, 822-826.	11.1	35
155	Time-Resolved Neutron Reflectometry and Photovoltaic Device Studies on Sequentially Deposited PCDTBT-Fullerene Layers. Langmuir, 2014, 30, 11474-11484.	1.6	35
156	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
157	Femtosecond transient absorption measurements in poly(arylenevinylene)s. Synthetic Metals, 1993, 55, 15-21.	2.1	34
158	Ruthenium complex-cored dendrimers: Shedding light on efficiency trade-offs in dye-sensitised solar cells. Organic Electronics, 2009, 10, 1356-1363.	1.4	34
159	Poly(dendrimers) with Phosphorescent Iridium(III) Complex-Based Side Chains Prepared via Ring-Opening Metathesis Polymerization. Macromolecules, 2012, 45, 2963-2971.	2.2	34
160	Fluorescent carbazole dendrimers for the detection of nitroaliphatic taggants and accelerants. Journal of Materials Chemistry, 2012, 22, 12507.	6.7	34
161	Determining the absorption tolerance of single chromophore photodiodes for machine vision. Applied Physics Letters, 2010, 96, 253303.	1.5	33
162	Correlation of diffusion and performance in sequentially processed P3HT/PCBM heterojunction films by time-resolved neutron reflectometry. Journal of Materials Chemistry C, 2013, 1, 2593.	2.7	33

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163	The Molecular Origin of Anisotropic Emission in an Organic Light-Emitting Diode. Nano Letters, 2017, 17, 6464-6468.	4.5	33
164	Solid-State Fluorescence-based Sensing of TATP via Hydrogen Peroxide Detection. ACS Sensors, 2019, 4, 134-142.	4.0	33
165	Dicyanovinyl-based fluorescent sensors for dual mechanism amine sensing. Journal of Materials Chemistry C, 2020, 8, 13723-13732.	2.7	33
166	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
167	Optical spectroscopy of field-induced charge in poly(2.5-dimethoxy-p-phenylene vinylene) metal-insulator-semiconductor structures. Synthetic Metals, 1993, 55, 218-223.	2.1	31
168	Synthesis and Self-Assembly of Donorâ€“Acceptorâ€“Donor Based Oligothiophenes and Their Optoelectronic Properties. Journal of Physical Chemistry C, 2011, 115, 14369-14376.	1.5	31
169	Electric Field and Mobility Dependent Firstâ€Order Recombination Losses in Organic Solar Cells. Advanced Energy Materials, 2017, 7, 1601379.	10.2	31
170	Chelation of diamine ligands to zinc porphyrin monolayers amide-linked to glass. Journal of the Chemical Society Perkin Transactions 1, 1997, , 2581-2586.	0.9	30
171	Exciton confinement in organic dendrimer quantum wells for opto-electronic applications. Journal of Chemical Physics, 2002, 116, 455-459.	1.2	30
172	Influence of the dendron chemical structure on the photophysical properties of bisfluorene-cored dendrimers. Journal of Chemical Physics, 2008, 128, 204703.	1.2	30
173	Control of colour and charge injection in conjugated dendrimer/polypyridine bilayer leds. Synthetic Metals, 1999, 102, 1571-1574.	2.1	29
174	Ultrafast polarized fluorescence dynamics in an organic dendrimer. Applied Physics Letters, 2000, 77, 1120-1122.	1.5	29
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