David G Lidzey

List of Publications by Year
in descending order

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253 papers	14,021 citations	20797 60 h-index	25770 108 g-index
262 all docs	262 docs citations	262 times ranked	12583 citing authors

#	Article	IF	Citations
1	Gasâ€Assisted Spray Coating of Perovskite Solar Cells Incorporating Sprayed Selfâ€Assembled Monolayers. Advanced Science, 2022, 9, e2104848.	5.6	29
2	Polariton condensation in a microcavity using a highly-stable molecular dye. Journal of Materials Chemistry C, 2022, 10, 4187-4195.	2.7	10
3	Metalâ€Organic Framework Nanosheets as Templates to Enhance Performance in Semiâ€Crystalline Organic Photovoltaic Cells. Advanced Science, 2022, 9, .	5.6	4
4	Controlling PbI₂ Stoichiometry during Synthesis to Improve the Performance of Perovskite Photovoltaics. Chemistry of Materials, 2021, 33, 554-566.	3.2	13
5	Observation of photon-mode decoupling in a strongly coupled multimode microcavity. Journal of Chemical Physics, 2021, 154, 124309.	1.2	11
6	Progress in Upscaling Organic Photovoltaic Devices. Advanced Energy Materials, 2021, 11, 2100342.	10.2	63
7	Polarization tuning of an H1 organicâ€“inorganic nano-cavity. Journal of Applied Physics, 2021, 129, 203103.	1.1	0
8	Ultralongâ€Range Polaritonâ€Assisted Energy Transfer in Organic Microcavities. Angewandte Chemie - International Edition, 2021, 60, 16661-16667.	7.2	37
9	Ultralongâ€Range Polaritonâ€Assisted Energy Transfer in Organic Microcavities. Angewandte Chemie, 2021, 133, 16797-16803.	1.6	8
10	Untargeted effects in organic excitonâ€“polariton transient spectroscopy: A cautionary tale. Journal of Chemical Physics, 2021, 155, 154701.	1.2	24
11	Polariton condensation in an organic microcavity utilising a hybrid metal-DBR mirror. Scientific Reports, 2021, 11, 20879.	1.6	11
12	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. Nature Communications, 2021, 12, 6519.	5.8	32
13	Opticalâ€Mode Structure of Micropillar Microcavities Containing a Fluorescent Conjugated Polymer. Advanced Quantum Technologies, 2020, 3, 1900067.	1.8	3
14	Nano-second exciton-polariton lasing in organic microcavities. Applied Physics Letters, 2020, 117, 123302.	1.5	14
15	Strong Coupling of Organic Dyes Located at the Surface of a Dielectric Slab Microcavity. Journal of Physical Chemistry Letters, 2020, 11, 9893-9900.	2.1	11
16	Potassium iodide reduces the stability of triple-cation perovskite solar cells. RSC Advances, 2020, 10, 40341-40350.	1.7	27
17	Two-Dimensional Organic-Exciton Polariton Lattice Fabricated Using Laser Patterning. ACS Photonics, 2020, 7, 2273-2281.	3.2	23
18	Development of Spray-Coated Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 48237-48245.	4.0	88

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19	Rapid Scalable Processing of Tin Oxide Transport Layers for Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 5552-5562.	2.5	52
20	Solvent vapour annealing of methylammonium lead halide perovskite: what's the catch?. Journal of Materials Chemistry A, 2020, 8, 10943-10956.	5.2	11
21	Metalâ€“organic framework nanosheets for enhanced performance of organic photovoltaic cells. Journal of Materials Chemistry A, 2020, 8, 6067-6075.	5.2	30
22	Fluorinated solid additives enable high efficiency non-fullerene organic solar cells. Journal of Materials Chemistry A, 2020, 8, 4230-4238.	5.2	47
23	Mechanisms of blueshifts in organic polariton condensates. Communications Physics, 2020, 3, .	2.0	56
24	Pyrene-benzo[1,2,5]thiadiazole based conjugated polymers for application in BHJ solar cells. Journal of Saudi Chemical Society, 2020, 24, 484-491.	2.4	5
25	Fully Spray-Coated Triple-Cation Perovskite Solar Cells. Scientific Reports, 2020, 10, 6610.	1.6	100
26	13.9% Efficiency Ternary Nonfullerene Organic Solar Cells Featuring Low-Structural Order. ACS Energy Letters, 2019, 4, 2378-2385.	8.8	51
27	A hybrid organicâ€“inorganic polariton LED. Light: Science and Applications, 2019, 8, 81.	7.7	30
28	Low-temperature, high-speed reactive deposition of metal oxides for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 2283-2290.	5.2	13
29	Tin(<scp>iv</scp>) dopant removal through anti-solvent engineering enabling tin based perovskite solar cells with high charge carrier mobilities. Journal of Materials Chemistry C, 2019, 7, 8389-8397.	2.7	34
30	Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 26194-26203.	4.0	57
31	A flexible back-contact perovskite solar micro-module. Energy and Environmental Science, 2019, 12, 1928-1937.	15.6	35
32	Correlating the electron-donating core structure with morphology and performance of carbon oxygen-bridged ladder-type non-fullerene acceptor based organic solar cells. Nano Energy, 2019, 61, 318-326.	8.2	43
33	Room Temperature Broadband Polariton Lasing from a Dyeâ€Filled Microcavity. Advanced Optical Materials, 2019, 7, 1900163.	3.6	34
34	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. Energy and Environmental Science, 2019, 12, 1296-1308.	15.6	146
35	Low-dimensional emissive states in non-stoichiometric methylammonium lead halide perovskites. Journal of Materials Chemistry A, 2019, 7, 11104-11116.	5.2	7
36	Ultrasonic spray coating as an approach for large-area polymer OLEDs: The influence of thin film processing and surface roughness on electrical performance. AIP Advances, 2019, 9, .	0.6	14

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37	A review of non-fullerene polymer solar cells: from device physics to morphology control. Reports on Progress in Physics, 2019, 82, 036601.	8.1	184
38	Mapping Polymer Molecular Order in the SEM with Secondary Electron Hyperspectral Imaging. Advanced Science, 2019, 6, 1801752.	5.6	19
39	Enhancing the efficiency of PTB7-Th:COi8DFIC-based ternary solar cells with versatile third components. Applied Physics Reviews, 2019, 6, .	5.5	20
40	Molecular Order Control of Non-fullerene Acceptors for High-Efficiency Polymer Solar Cells. Joule, 2019, 3, 819-833.	11.7	209
41	In situ simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. Energy and Environmental Science, 2018, 11, 383-393.	15.6	77
42	Advances in Spray-Cast Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 1977-1984.	2.1	106
43	â€œSecondary electron spectra of semi-crystalline polymers â€“ A novel polymer characterisation tool?â€• Journal of Electron Spectroscopy and Related Phenomena, 2018, 222, 95-105.	0.8	9
44	Contrasting Effects of Energy Transfer in Determining Efficiency Improvements in Ternary Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1704212.	7.8	53
45	Degradation of inverted architecture <scp>CH</scp>₃<scp>NH</scp>₃PbI_{3â€‹}<scp>_xC</scp>l_{1-x} perovskite solar cells due to trapped moisture. Energy Science and Engineering, 2018, 6, 35-46.	1.9	21
46	Control over Energy Transfer between Fluorescent BODIPY Dyes in a Strongly Coupled Microcavity. ACS Photonics, 2018, 5, 258-266.	3.2	77
47	Localized effect of PbI₂ excess in perovskite solarÂcells probed by high-resolution chemicalâ€“optoelectronic mapping. Journal of Materials Chemistry A, 2018, 6, 23010-23018.	5.2	47
48	High-Efficiency Spray-Coated Perovskite Solar Cells Utilizing Vacuum-Assisted Solution Processing. ACS Applied Materials & Interfaces, 2018, 10, 39428-39434.	4.0	74
49	Generation of Anti-Stokes Fluorescence in a Strongly Coupled Organic Semiconductor Microcavity. ACS Photonics, 2018, 5, 4343-4351.	3.2	21
50	Effect of fullerene acceptor on the performance of solar cells based on PffBT4T-2OD. Physical Chemistry Chemical Physics, 2018, 20, 19023-19029.	1.3	14
51	Correlating Nanoscale Morphology with Device Performance in Conventional and Inverted PffBT4T-2OD:PC₇₁BM Polymer Solar Cells. ACS Applied Energy Materials, 2018, 1, 3505-3512.	2.5	7
52	Highâ€Performance Multilayer Encapsulation for Perovskite Photovoltaics. Advanced Energy Materials, 2018, 8, 1801234.	10.2	68
53	Strong coupling in a microcavity containing Î²-carotene. Optics Express, 2018, 26, 3320.	1.7	10
54	High sensitivity organic inorganic hybrid X-ray detectors with direct transduction and broadband response. Nature Communications, 2018, 9, 2926.	5.8	166

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55	Current Status of Outdoor Lifetime Testing of Organic Photovoltaics. Advanced Science, 2018, 5, 1800434.	5.6	73
56	Correlating Threeâ€dimensional Morphology With Function in PBDBâ€T:ITâ€M Nonâ€Fullerene Organic Solar Cells. Solar Rrl, 2018, 2, 1800114.	3.1	49
57	An X-ray scattering and electron microscopy study of methylammonium bismuth perovskites for solar cell applications. Journal of Materials Research, 2017, 32, 1888-1898.	1.2	3
58	LÃ©vy Defects in Matrix-Immobilized J Aggregates: Tracing Intra-and Intersegmental Exciton Relaxation. Journal of Physical Chemistry Letters, 2017, 8, 547-552.	2.1	10
59	Electrically tunable organicâ€“inorganic hybrid polaritons with monolayer WS2. Nature Communications, 2017, 8, 14097.	5.8	53
60	Optimized organometal halide perovskite solar cell fabrication through control of nanoparticle crystal patterning. Journal of Materials Chemistry C, 2017, 5, 2352-2359.	2.7	12
61	Comparative indoor and outdoor stability measurements of polymer based solar cells. Scientific Reports, 2017, 7, 1305.	1.6	32
62	Nanoscale Mapping of Bromide Segregation on the Cross Sections of Complex Hybrid Perovskite Photovoltaic Films Using Secondary Electron Hyperspectral Imaging in a Scanning Electron Microscope. ACS Omega, 2017, 2, 2126-2133.	1.6	16
63	Understanding and controlling morphology evolution via DIO plasticization in PffBT4T-2OD/PC71BM devices. Scientific Reports, 2017, 7, 44269.	1.6	47
64	Strong Excitonâ€“Photon Coupling in a Nanographene Filled Microcavity. Nano Letters, 2017, 17, 5521-5525.	4.5	30
65	Hybrid organic-inorganic polariton laser. Scientific Reports, 2017, 7, 11377.	1.6	38
66	Polariton Condensates: A Yellow Polariton Condensate in a Dye Filled Microcavity (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.6	2
67	Spray-cast multilayer perovskite solar cells with an active-area of 1.5â€‰cm2. Scientific Reports, 2017, 7, 7962.	1.6	69
68	A Yellow Polariton Condensate in a Dye Filled Microcavity. Advanced Optical Materials, 2017, 5, 1700203.	3.6	75
69	A Nanophotonic Structure Containing Living Photosynthetic Bacteria. Small, 2017, 13, 1701777.	5.2	46
70	Efficient perovskite photovoltaic devices using chemically doped PCDTBT as a hole-transport material. Journal of Materials Chemistry A, 2017, 5, 15714-15723.	5.2	29
71	Intermolecular states in organic dye dispersions: excimers vs. aggregates. Journal of Materials Chemistry C, 2017, 5, 8380-8389.	2.7	60
72	Novel organic photovoltaic polymer blends: A rapid, 3-dimensional morphology analysis using backscattered electron imaging in the scanning electron microscope. Solar Energy Materials and Solar Cells, 2017, 160, 182-192.	3.0	12

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73	Lightâ€Soakingâ€Free Inverted Polymer Solar Cells with an Efficiency of 10.5% by Compositional and Surface Modifications to a Lowâ€Temperatureâ€Processed TiO₂ Electronâ€Transport Layer. Advanced Materials, 2017, 29, 1604044.	11.1	68
74	Pyrene-benzothiadiazole-based copolymers for application in photovoltaic devices. Polymers for Advanced Technologies, 2017, 28, 193-200.	1.6	8
75	Fabricating high performance conventional and inverted polymer solar cells by spray coating in air. Vacuum, 2017, 139, 154-158.	1.6	13
76	Solution modification of PEDOT:PSS inks for ultrasonic spray coating. Organic Electronics, 2017, 41, 245-250.	1.4	17
77	Thermally Stable Solution Processed Vanadium Oxide as a Hole Extraction Layer in Organic Solar Cells. Materials, 2016, 9, 235.	1.3	19
78	High efficiency arrays of polymer solar cells fabricated by sprayâ€coating in air. Progress in Photovoltaics: Research and Applications, 2016, 24, 275-282.	4.4	27
79	Polymer Light Emitting Diodes Powered via Paper-Mounted Electronics. Journal of Display Technology, 2016, 12, 583-588.	1.3	9
80	Plasmonic gold nanodiscs fabricated into a photonic-crystal nanocavity. Nanotechnology, 2016, 27, 225203.	1.3	6
81	Mapping Morphological and Structural Properties of Lead Halide Perovskites by Scanning Nanofocus XRD. Advanced Functional Materials, 2016, 26, 8221-8230.	7.8	27
82	Efficient Radiative Pumping of Polaritons in a Strongly Coupled Microcavity by a Fluorescent Molecular Dye. Advanced Optical Materials, 2016, 4, 1615-1623.	3.6	61
83	Sprayâ€Cast Multilayer Organometal Perovskite Solar Cells Fabricated in Air. Advanced Energy Materials, 2016, 6, 1600994.	10.2	130
84	PCDTBT based solar cells: one year of operation under real-world conditions. Scientific Reports, 2016, 6, 21632.	1.6	52
85	Improved efficiency in organic solar cells via conjugated polyelectrolyte additive in the hole transporting layer. Journal of Materials Chemistry C, 2016, 4, 10722-10730.	2.7	8
86	Polaritons: Efficient Radiative Pumping of Polaritons in a Strongly Coupled Microcavity by a Fluorescent Molecular Dye (Advanced Optical Materials 10/2016). Advanced Optical Materials, 2016, 4, 1614-1614.	3.6	1
87	Preparation and photovoltaic properties of pyrene-thieno[3,4-c]pyrrole-4,6-dione-based donor-acceptor polymers. European Polymer Journal, 2016, 85, 225-235.	2.6	5
88	Grain rotation and lattice deformation during perovskite spray coating and annealing probed in situ by GI-WAXS. CrystEngComm, 2016, 18, 5448-5455.	1.3	29
89	Monitoring the Formation of a CH₃NH₃PbI_{3â€“}_xCl_x Perovskite during Thermal Annealing Using Xâ€Ray Scattering. Advanced Functional Materials, 2016, 26, 4934-4942.	7.8	63
90	Recent progress and challenges of organometal halide perovskite solar cells. Reports on Progress in Physics, 2016, 79, 026501.	8.1	107

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91	Indium-free multilayer semi-transparent electrodes for polymer solar cells. Solar Energy Materials and Solar Cells, 2016, 144, 600-607.	3.0	18
92	Dependence on material choice of degradation of organic solar cells following exposure to humid air. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 216-224.	2.4	27
93	Direct evidence of Rabi oscillations and antiresonance in a strongly coupled organic microcavity. Physical Review B, 2015, 91, .	1.1	8
94	Band energy control of molybdenum oxide by surface hydration. Applied Physics Letters, 2015, 107, .	1.5	26
95	Polymer-based solar cells having an active area of 1.6 cm2 fabricated via spray coating. APL Materials, 2015, 3, .	2.2	9
96	Application of low-voltage backscattered electron imaging to the mapping of organic photovoltaic blend morphologies. Journal of Physics: Conference Series, 2015, 644, 012017.	0.3	2
97	The role of the hole-extraction layer in determining the operational stability of a polycarbazole:fullerene bulk-heterojunction photovoltaic device. Applied Physics Letters, 2015, 106, .	1.5	25
98	Sub-nanometre resolution imaging of polymerâ€“fullerene photovoltaic blends using energy-filtered scanning electron microscopy. Nature Communications, 2015, 6, 6928.	5.8	56
99	Vertical stratification and its impact on device performance in a polycarbazole based copolymer solar cells. Journal of Materials Chemistry C, 2015, 3, 4007-4015.	2.7	25
100	The effect of residual palladium catalyst on the performance and stability of PCDTBT:PC70BM organic solar cells. Organic Electronics, 2015, 27, 266-273.	1.4	46
101	Strong Coupling in Organic and Hybrid-Semiconductor Microcavity Structures. , 2015, , 243-273.		9
102	Impact of fluorine substitution upon the photovoltaic properties of benzothiadiazole-fluorene alternate copolymers. RSC Advances, 2015, 5, 46386-46394.	1.7	27
103	Triisopropylsilylacetylene-functionalised anthracene-alt-benzothiadiazole copolymers for application in bulk heterojunction solar cells. RSC Advances, 2015, 5, 101607-101615.	1.7	4
104	Morphology Development in Amorphous Polymer:Fullerene Photovoltaic Blend Films During Solution Casting. Advanced Functional Materials, 2014, 24, 659-667.	7.8	55
105	Solution processed nickel oxide anodes for organic photovoltaic devices. Applied Physics Letters, 2014, 104, .	1.5	39
106	Silicon photonic crystals: light emission, modulation and detection. , 2014, , .		0
107	The fabrication of polyfluorene and polycarbazole-based photovoltaic devices using an air-stable process route. Applied Physics Letters, 2014, 105, 223302.	1.5	12
108	Strong coupling between chlorosomes of photosynthetic bacteria and a confined optical cavity mode. Nature Communications, 2014, 5, 5561.	5.8	102

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109	A ladder of polariton branches formed by coupling an organic semiconductor exciton to a series of closely spaced cavity-photon modes. Applied Physics Letters, 2014, 104, 191108.	1.5	18
110	Development of Community Led Renewable Energy Projects. Materials Research Society Symposia Proceedings, 2014, 1657, 17.	0.1	0
111	Polariton-mediated energy transfer between organic dyes in a strongly coupled optical microcavity. Nature Materials, 2014, 13, 712-719.	13.3	340
112	Organic photovoltaic devices incorporating a molybdenum oxide hole-extraction layer deposited by spray-coating from an ammonium molybdate tetrahydrate precursor. Organic Electronics, 2014, 15, 692-700.	1.4	26
113	Impact of dithienyl or thienothiophene units on the optoelectronic and photovoltaic properties of benzo[1,2,5]thiadiazole based donorâ€“acceptor copolymers for organic solar cell devices. RSC Advances, 2014, 4, 43142-43149.	1.7	13
114	A chemical sensor based on a photonic-crystal L3 nanocavity defined in a silicon-nitride membrane. Journal of Materials Chemistry C, 2014, 2, 8700-8706.	2.7	8
115	Efficient planar heterojunction mixed-halide perovskite solar cells deposited via spray-deposition. Energy and Environmental Science, 2014, 7, 2944-2950.	15.6	657
116	Molecular weight dependent vertical composition profiles of PCDTBT:PC71BM blends for organic photovoltaics. Scientific Reports, 2014, 4, 5286.	1.6	61
117	Bulk Heterojunction Morphology Control and Characterization. , 2014, , 317-366.		2
118	Fluoreneâ€Based Coâ€polymer with High Hole Mobility and Device Performance in Bulk Heterojunction Organic Solar Cells. Macromolecular Rapid Communications, 2013, 34, 1157-1162.	2.0	24
119	Photonic Crystal Nanocavities Containing Plasmonic Nanoparticles Assembled Using a Laserâ€Printing Technique. Advanced Optical Materials, 2013, 1, 946-951.	3.6	16
120	Anthracene-based donorâ€“acceptor low band gap polymers for application in solar cells. Chemical Communications, 2013, 49, 2252.	2.2	41
121	Correlating molecular morphology with optoelectronic function in solar cells based on low band-gap copolymer:fullerene blends. Journal of Materials Chemistry C, 2013, 1, 7266.	2.7	67
122	Selenophene vs. thiophene in benzothiadiazole-based low energy gap donorâ€“acceptor polymers for photovoltaic applications. Journal of Materials Chemistry A, 2013, 1, 5165.	5.2	73
123	Fabricating High Performance, Donorâ€“Acceptor Copolymer Solar Cells by Sprayâ€Coating in Air. Advanced Energy Materials, 2013, 3, 505-512.	10.2	85
124	Air processed organic photovoltaic devices incorporating a MoOx anode buffer layer. Applied Physics Letters, 2013, 102, 183303.	1.5	25
125	Characterizing the Electroluminescence Emission from a Strongly Coupled Organic Semiconductor Microcavity LED. Advanced Optical Materials, 2013, 1, 503-509.	3.6	42
126	The role of dynamic measurements in correlating structure with optoelectronic properties in polymerâ€‰:â€‰fullerene bulk-heterojunction solar cells. Reports on Progress in Physics, 2013, 76, 022501.	8.1	41

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127	The Influence of MoO_x Anode Stoicheometry on the Performance of Bulk Heterojunction Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 903-908.	10.2	20
128	Highly efficient optical filter based on vertically coupled photonic crystal cavity and bus waveguide. Optics Letters, 2013, 38, 154.	1.7	48
129	Strongly Coupled Hybrid Frenkel/Wannier-Mott Exciton Polaritons in a High Q Microcavity. , 2013, , .		0
130	Imaging the polariton relaxation bottleneck in strongly coupled organic semiconductor microcavities. Physical Review B, 2013, 88, .	1.1	38
131	Highly efficient coupling between a monolithically integrated photonic crystal cavity and a bus waveguide. , 2012, , .		0
132	Highly efficient coupling between a nanocavity and monolithic bus waveguide. , 2012, , .		0
133	Ultrafast dynamics of cavity polaritons in an organic semicondutor microcavity. , 2012, , .		1
134	Phonon-driven resonantly enhanced polariton luminescence in organic microcavities. , 2012, , .		1
135	Micrometer and Nanometer Scale Photopatterning of Proteins on Glass Surfaces by Photo-degradation of Films Formed from Oligo(Ethylene Glycol) Terminated Silanes. Biointerphases, 2012, 7, 54.	0.6	12
136	Rationalizing Phase Transitions with Thermal Annealing Temperatures for P3HT:PCBM Organic Photovoltaic Devices. Macromolecules, 2012, 45, 1499-1508.	2.2	68
137	Competition between substrate-mediated Ï€-Ï€ stacking and surface-mediated Tg depression in ultrathin conjugated polymer films. European Physical Journal E, 2012, 35, 9807.	0.7	34
138	Correlating Structure with Function in Thermally Annealed PCDTBT:PC₇₀BM Photovoltaic Blends. Advanced Functional Materials, 2012, 22, 1399-1408.	7.8	131
139	Optimising the efficiency of carbazole co-polymer solar-cells by control over the metal cathode electrode. Organic Electronics, 2012, 13, 1401-1408.	1.4	26
140	Large area nanopatterning of alkylphosphonate self-assembled monolayers on titanium oxide surfaces by interferometric lithography. Nanoscale, 2011, 3, 2511.	2.8	18
141	Structure of films of poly(3,4-ethylene dioxythiophene)-poly(styrene sulfonate) crosslinked with glycerol. Journal of Materials Chemistry, 2011, 21, 19324.	6.7	12
142	A Phase Diagram of the P3HT:PCBM Organic Photovoltaic System: Implications for Device Processing and Performance. Macromolecules, 2011, 44, 2908-2917.	2.2	109
143	Spectroscopy and Single-Molecule Emission of a Fluorene-Terthiophene Oligomer. Journal of Physical Chemistry B, 2011, 115, 12028-12035.	1.2	6
144	Imaging the Bulk Nanoscale Morphology of Organic Solar Cell Blends Using Helium Ion Microscopy. Nano Letters, 2011, 11, 4275-4281.	4.5	28

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145	Temperature dependence of the upper-branch polariton population in an organic semiconductor microcavity. Physical Review B, 2011, 84, .	1.1	36
146	Ultrafast polariton relaxation dynamics in an organic semiconductor microcavity. Physical Review B, 2011, 83, .	1.1	116
147	A novel 2,7-linked carbazole based â€œdouble cableâ€•polymer with pendant perylene diimide functional groups: preparation, spectroscopy and photovoltaic properties. Journal of Materials Chemistry, 2011, 21, 851-862.	6.7	21
148	Carbazole and thienyl benzo[1,2,5]thiadiazole based polymers with improved open circuit voltages and processability for application in solar cells. Journal of Materials Chemistry, 2011, 21, 13649.	6.7	89
149	A regioregular head to tail thiophene based â€œdouble-cableâ€•polymer with pendant anthraquinone functional groups: Preparation, spectroscopy and photovoltaic properties. Solar Energy Materials and Solar Cells, 2011, 95, 1723-1730.	3.0	9
150	Evolution of Structure, Optoelectronic Properties, and Device Performance of Polythiophene:Fullerene Solar Cells During Thermal Annealing. Advanced Functional Materials, 2011, 21, 1383-1390.	7.8	109
151	Vibrationally Assisted Polaritonâ€Relaxation Processes in Strongly Coupled Organicâ€Semiconductor Microcavities. Advanced Functional Materials, 2011, 21, 3691-3696.	7.8	126
152	The Nanoscale Morphology of a PCDTBT:PCBM Photovoltaic Blend. Advanced Energy Materials, 2011, 1, 499-504.	10.2	99
153	Ultrafast polariton population build-up mediated by molecular phonons in organic microcavities. Applied Physics Letters, 2011, 99, 143303.	1.5	46
154	Hole injection in tri-arylamine containing polyfluorene co-polymer devices with molybdenum oxide contacts. Journal of Applied Physics, 2011, 109, 084509.	1.1	19
155	Stability of X-Ray Detectors Based on Organic Photovoltaic Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1770-1775.	1.9	22
156	Depletion of PCBM at the Cathode Interface in P3HT/PCBM Thin Films as Quantified via Neutron Reflectivity Measurements. Advanced Materials, 2010, 22, 2444-2447.	11.1	165
157	A one-dimensional photonic-crystal nanocavity incorporating a fluorescent molecular dye. Applied Physics Letters, 2010, 97, .	1.5	12
158	Role of intramolecular dynamics on intermolecular coupling in cyanine dye. Physical Review B, 2010, 81, .	1.1	11
159	Exciton localization in disordered poly(3-hexylthiophene). Journal of Chemical Physics, 2010, 133, 044504.	1.2	46
160	The development of nanoscale morphology in polymer:fullerene photovoltaic blends during solvent casting. Soft Matter, 2010, 6, 4128.	1.2	121
161	An Optical Nanocavity Incorporating a Fluorescent Organic Dye Having a High Quality Factor. ACS Nano, 2010, 4, 3039-3044.	7.3	16
162	The optical properties of hybrid organic-inorganic L3 nanocavities. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 215.	0.9	13

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163	A Characterization of the Raman Modes in a J-Aggregate-Forming Dye: A Comparison between Theory and Experiment. Journal of Physical Chemistry A, 2010, 114, 11920-11927.	1.1	30
164	Aryl amine substituted low energy gap carbazole polymers: preparation and photovoltaic properties. Journal of Materials Chemistry, 2010, 20, 6990.	6.7	11
165	High-speed electroluminescence modulation of a conjugated-polymer light emitting diode. Applied Physics Letters, 2009, 94, .	1.5	33
166	Single molecule spectroscopy of red- and green-emitting fluorene-based copolymers. Journal of Chemical Physics, 2009, 130, 044903.	1.2	23
167	Fabrication and optimization of P3HT:PCBM organic photovoltaic devices. Proceedings of SPIE, 2009, , .	0.8	5
168	The Impact of Interfacial Mixing on FÃ¶rster Transfer at Conjugated Polymer Heterojunctions. Advanced Functional Materials, 2009, 19, 157-163.	7.8	22
169	Phenylenevinylene Block Copolymers via Ringâ€Opening Metathesis Polymerization. Macromolecular Rapid Communications, 2009, 30, 1889-1892.	2.0	36
170	Alternating 2,7- and 3,6-linked carbazole copolymers as wide band gap energy transfer donors. Thin Solid Films, 2009, 517, 2840-2844.	0.8	16
171	Detecting 6MV X-rays using an organic photovoltaic device. Organic Electronics, 2009, 10, 1170-1173.	1.4	29
172	Photopatterning, Etching, and Derivatization of Self-Assembled Monolayers of Phosphonic Acids on the Native Oxide of Titanium. Langmuir, 2009, 25, 10746-10753.	1.6	41
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