

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
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262
all docs

262
docs citations

262
times ranked

12583
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong exciton-photon coupling in an organic semiconductor microcavity. <i>Nature</i> , 1998, 395, 53-55.	13.7	768
2	Efficient planar heterojunction mixed-halide perovskite solar cells deposited via spray-deposition. <i>Energy and Environmental Science</i> , 2014, 7, 2944-2950.	15.6	657
3	Space-charge limited conduction with traps in poly(phenylene vinylene) light emitting diodes. <i>Journal of Applied Physics</i> , 1997, 82, 6326-6342.	1.1	474
4	Polariton-mediated energy transfer between organic dyes in a strongly coupled optical microcavity. <i>Nature Materials</i> , 2014, 13, 712-719.	13.3	340
5	Room Temperature Polariton Emission from Strongly Coupled Organic Semiconductor Microcavities. <i>Physical Review Letters</i> , 1999, 82, 3316-3319.	2.9	311
6	Efficient Energy Transfer from Blue to Red in Tetraphenylporphyrin-Doped Poly(9,9-dioctylfluorene) Light-Emitting Diodes. <i>Advanced Materials</i> , 2000, 12, 58-62.	11.1	291
7	Direct Determination of the Exciton Binding Energy of Conjugated Polymers Using a Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 1998, 81, 1082-1085.	2.9	278
8	Cavity polaritons in microcavities containing disordered organic semiconductors. <i>Physical Review B</i> , 2003, 67, .	1.1	276
9	Understanding the Origin of the 535-nm Emission Band in Oxidized Poly(9,9-dioctylfluorene): The Essential Role of Inter-Chain/Inter-Segment Interactions. <i>Advanced Functional Materials</i> , 2004, 14, 765-781.	7.8	247
10	Exciton migration in π^2 -phase poly(9,9-dioctylfluorene). <i>Physical Review B</i> , 2003, 67, .	1.1	232
11	Use of poly(phenyl quinoxaline) as an electron transport material in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 1996, 69, 881-883.	1.5	220
12	Photon-Mediated Hybridization of Frenkel Excitons in Organic Semiconductor Microcavities. <i>Science</i> , 2000, 288, 1620-1623.	6.0	220
13	Molecular Order Control of Non-fullerene Acceptors for High-Efficiency Polymer Solar Cells. <i>Joule</i> , 2019, 3, 819-833.	11.7	209
14	Origin of electrophosphorescence from a doped polymer light emitting diode. <i>Physical Review B</i> , 2001, 63, .	1.1	199
15	A review of non-fullerene polymer solar cells: from device physics to morphology control. <i>Reports on Progress in Physics</i> , 2019, 82, 036601.	8.1	184
16	Strong exciton-photon coupling in a low-Q all-metal mirror microcavity. <i>Applied Physics Letters</i> , 2002, 81, 3519-3521.	1.5	182
17	Correlating structure with fluorescence emission in phase-separated conjugated-polymer blends. <i>Nature Materials</i> , 2003, 2, 616-621.	13.3	178
18	High sensitivity organic inorganic hybrid X-ray detectors with direct transduction and broadband response. <i>Nature Communications</i> , 2018, 9, 2926.	5.8	166

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19	Depletion of PCBM at the Cathode Interface in P3HT/PCBM Thin Films as Quantified via Neutron Reflectivity Measurements. <i>Advanced Materials</i> , 2010, 22, 2444-2447.	11.1	165
20	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. <i>Energy and Environmental Science</i> , 2019, 12, 1296-1308.	15.6	146
21	The effect of morphology on the temperature-dependent photoluminescence quantum efficiency of the conjugated polymer poly(9, 9-dioctylfluorene). <i>Journal of Physics Condensed Matter</i> , 2002, 14, 9975-9986.	0.7	141
22	Nanoscale Conjugated-Polymer Light-Emitting Diodes. <i>Nano Letters</i> , 2005, 5, 67-71.	4.5	140
23	Electrophosphorescence from a doped polymer light emitting diode. <i>Synthetic Metals</i> , 2001, 116, 379-383.	2.1	136
24	Correlating Structure with Function in Thermally Annealed PCDTBT:PC ₇₀ BM Photovoltaic Blends. <i>Advanced Functional Materials</i> , 2012, 22, 1399-1408.	7.8	131
25	Spray-Cast Multilayer Organometal Perovskite Solar Cells Fabricated in Air. <i>Advanced Energy Materials</i> , 2016, 6, 1600994.	10.2	130
26	Vibrationally Assisted Polariton-Relaxation Processes in Strongly Coupled Organic Semiconductor Microcavities. <i>Advanced Functional Materials</i> , 2011, 21, 3691-3696.	7.8	126
27	The development of nanoscale morphology in polymer:fullerene photovoltaic blends during solvent casting. <i>Soft Matter</i> , 2010, 6, 4128.	1.2	121
28	Bulk limited conduction in electroluminescent polymer devices. <i>Journal of Applied Physics</i> , 1998, 84, 6737-6746.	1.1	118
29	Photoprocessed and micropatterned conjugated polymer LEDs. <i>Synthetic Metals</i> , 1996, 82, 141-148.	2.1	116
30	Ultrafast polariton relaxation dynamics in an organic semiconductor microcavity. <i>Physical Review B</i> , 2011, 83, .	1.1	116
31	A Phase Diagram of the P3HT:PCBM Organic Photovoltaic System: Implications for Device Processing and Performance. <i>Macromolecules</i> , 2011, 44, 2908-2917.	2.2	109
32	Evolution of Structure, Optoelectronic Properties, and Device Performance of Polythiophene:Fullerene Solar Cells During Thermal Annealing. <i>Advanced Functional Materials</i> , 2011, 21, 1383-1390.	7.8	109
33	Recent progress and challenges of organometal halide perovskite solar cells. <i>Reports on Progress in Physics</i> , 2016, 79, 026501.	8.1	107
34	Advances in Spray-Cast Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1977-1984.	2.1	106
35	Efficient multilayer electroluminescence devices with poly(m-phenylenevinylene-co-2,5-dioctyloxy-p-phenylenevinylene) as the emissive layer. <i>Journal of Applied Physics</i> , 1997, 82, 2662-2670.	1.1	102
36	Strong coupling between chlorosomes of photosynthetic bacteria and a confined optical cavity mode. <i>Nature Communications</i> , 2014, 5, 5561.	5.8	102

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37	Fully Spray-Coated Triple-Cation Perovskite Solar Cells. <i>Scientific Reports</i> , 2020, 10, 6610.	1.6	100
38	The Nanoscale Morphology of a PCDTBT:PCBM Photovoltaic Blend. <i>Advanced Energy Materials</i> , 2011, 1, 499-504.	10.2	99
39	Experimental study of light emission from strongly coupled organic semiconductor microcavities following nonresonant laser excitation. <i>Physical Review B</i> , 2002, 65, .	1.1	93
40	Carbazole and thienyl benzo[1,2,5]thiadiazole based polymers with improved open circuit voltages and processability for application in solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 13649.	6.7	89
41	Development of Spray-Coated Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48237-48245.	4.0	88
42	Fabricating High Performance, Donor-Acceptor Copolymer Solar Cells by Spray-Coating in Air. <i>Advanced Energy Materials</i> , 2013, 3, 505-512.	10.2	85
43	Enhanced performance of pulse driven small area polyfluorene light emitting diodes. <i>Applied Physics Letters</i> , 2001, 79, 171-173.	1.5	81
44	Electroluminescence from a conjugated polymer microcavity structure. <i>Applied Physics Letters</i> , 1995, 67, 1355-1357.	1.5	78
45	<i>In situ</i> simultaneous photovoltaic and structural evolution of perovskite solar cells during film formation. <i>Energy and Environmental Science</i> , 2018, 11, 383-393.	15.6	77
46	Control over Energy Transfer between Fluorescent BODIPY Dyes in a Strongly Coupled Microcavity. <i>ACS Photonics</i> , 2018, 5, 258-266.	3.2	77
47	A Yellow Polariton Condensate in a Dye Filled Microcavity. <i>Advanced Optical Materials</i> , 2017, 5, 1700203.	3.6	75
48	High-Efficiency Spray-Coated Perovskite Solar Cells Utilizing Vacuum-Assisted Solution Processing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39428-39434.	4.0	74
49	Selenophene vs. thiophene in benzothiadiazole-based low energy gap donor-acceptor polymers for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5165.	5.2	73
50	Current Status of Outdoor Lifetime Testing of Organic Photovoltaics. <i>Advanced Science</i> , 2018, 5, 1800434.	5.6	73
51	Spray-cast multilayer perovskite solar cells with an active-area of 1.5 cm ² . <i>Scientific Reports</i> , 2017, 7, 7962.	1.6	69
52	Mapping the Fluorescence Decay Lifetime of a Conjugated Polymer in a Phase-Separated Blend Using a Scanning Near-Field Optical Microscope. <i>Nano Letters</i> , 2005, 5, 2232-2237.	4.5	68
53	Rationalizing Phase Transitions with Thermal Annealing Temperatures for P3HT:PCBM Organic Photovoltaic Devices. <i>Macromolecules</i> , 2012, 45, 1499-1508.	2.2	68
54	Light-Soaking-Free Inverted Polymer Solar Cells with an Efficiency of 10.5% by Compositional and Surface Modifications to a Low-Temperature-Processed TiO ₂ Electron-Transport Layer. <i>Advanced Materials</i> , 2017, 29, 1604044.	11.1	68

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55	High-Performance Multilayer Encapsulation for Perovskite Photovoltaics. <i>Advanced Energy Materials</i> , 2018, 8, 1801234.	10.2	68
56	Correlating molecular morphology with optoelectronic function in solar cells based on low band-gap copolymer:fullerene blends. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7266.	2.7	67
57	Ultrafast Förster transfer dynamics in tetraphenylporphyrin doped poly(9,9-dioctylfluorene). <i>Chemical Physics Letters</i> , 2001, 335, 27-33.	1.2	66
58	Improving efficiency by balancing carrier transport in poly(9,9-dioctylfluorene) light-emitting diodes using tetraphenylporphyrin as a hole-trapping, emissive dopant. <i>Applied Physics Letters</i> , 2001, 79, 3872-3874.	1.5	64
59	Hybrid organic-inorganic exciton-polaritons in a strongly coupled microcavity. <i>Physical Review B</i> , 2006, 74, .	1.1	64
60	Monitoring the Formation of a $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite during Thermal Annealing Using X-Ray Scattering. <i>Advanced Functional Materials</i> , 2016, 26, 4934-4942.	7.8	63
61	Progress in Upscaling Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2021, 11, 2100342.	10.2	63
62	Molecular weight dependent vertical composition profiles of PCDTBT:PC71BM blends for organic photovoltaics. <i>Scientific Reports</i> , 2014, 4, 5286.	1.6	61
63	Efficient Radiative Pumping of Polaritons in a Strongly Coupled Microcavity by a Fluorescent Molecular Dye. <i>Advanced Optical Materials</i> , 2016, 4, 1615-1623.	3.6	61
64	Intermolecular states in organic dye dispersions: excimers vs. aggregates. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8380-8389.	2.7	60
65	Electroluminescence in polymer films. <i>Nature</i> , 1997, 386, 135-135.	13.7	58
66	Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26194-26203.	4.0	57
67	A study of the different structural phases of the polymer poly(9,9-dioctyl fluorene) using Raman spectroscopy. <i>Synthetic Metals</i> , 2001, 116, 217-221.	2.1	56
68	Sub-nanometre resolution imaging of polymer-fullerene photovoltaic blends using energy-filtered scanning electron microscopy. <i>Nature Communications</i> , 2015, 6, 6928.	5.8	56
69	Mechanisms of blueshifts in organic polariton condensates. <i>Communications Physics</i> , 2020, 3, .	2.0	56
70	Spectral properties of resonant-cavity, polyfluorene light-emitting diodes. <i>Applied Physics Letters</i> , 2000, 77, 1262-1264.	1.5	55
71	Morphology Development in Amorphous Polymer:Fullerene Photovoltaic Blend Films During Solution Casting. <i>Advanced Functional Materials</i> , 2014, 24, 659-667.	7.8	55
72	The interplay between the optical and electronic properties of light-emitting-diode applicable conjugated polymer blends and their phase-separated morphology. <i>Organic Electronics</i> , 2005, 6, 35-45.	1.4	53

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73	Electrically tunable organic-inorganic hybrid polaritons with monolayer WS ₂ . Nature Communications, 2017, 8, 14097.	5.8	53
74	Contrasting Effects of Energy Transfer in Determining Efficiency Improvements in Ternary Polymer Solar Cells. Advanced Functional Materials, 2018, 28, 1704212.	7.8	53
75	Narrow Energy Gap Polymers with Absorptions up to 1000 nm and their Photovoltaic Properties. Macromolecular Rapid Communications, 2008, 29, 1804-1809.	2.0	52
76	PCDTBT based solar cells: one year of operation under real-world conditions. Scientific Reports, 2016, 6, 21632.	1.6	52
77	Rapid Scalable Processing of Tin Oxide Transport Layers for Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 5552-5562.	2.5	52
78	Surface segregation and self-stratification in blends of spin-cast polyfluorene derivatives. Journal of Physics Condensed Matter, 2005, 17, 1319-1328.	0.7	51
79	13.9% Efficiency Ternary Nonfullerene Organic Solar Cells Featuring Low-Structural Order. ACS Energy Letters, 2019, 4, 2378-2385.	8.8	51
80	Raman scattering in strongly coupled organic semiconductor microcavities. Physical Review B, 2001, 63, .	1.1	50
81	Imaging the Fluorescence Decay Lifetime of a Conjugated-Polymer Blend By Using a Scanning Near-Field Optical Microscope. Advanced Materials, 2007, 19, 107-111.	11.1	49
82	Correlating Three-dimensional Morphology With Function in PBDBT:ITM Non-Fullerene Organic Solar Cells. Solar Rrl, 2018, 2, 1800114.	3.1	49
83	Highly efficient optical filter based on vertically coupled photonic crystal cavity and bus waveguide. Optics Letters, 2013, 38, 154.	1.7	48
84	Understanding and controlling morphology evolution via DIO plasticization in PffBT4T-2OD/PC71BM devices. Scientific Reports, 2017, 7, 44269.	1.6	47
85	Localized effect of PbI ₂ excess in perovskite solar cells probed by high-resolution chemical-optoelectronic mapping. Journal of Materials Chemistry A, 2018, 6, 23010-23018.	5.2	47
86	Fluorinated solid additives enable high efficiency non-fullerene organic solar cells. Journal of Materials Chemistry A, 2020, 8, 4230-4238.	5.2	47
87	Exciton localization in disordered poly(3-hexylthiophene). Journal of Chemical Physics, 2010, 133, 044504.	1.2	46
88	Ultrafast polariton population build-up mediated by molecular phonons in organic microcavities. Applied Physics Letters, 2011, 99, 143303.	1.5	46
89	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
90	A Nanophotonic Structure Containing Living Photosynthetic Bacteria. Small, 2017, 13, 1701777.	5.2	46

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91	Improving the light extraction efficiency of polymeric light emitting diodes using two-dimensional photonic crystals. <i>Organic Electronics</i> , 2006, 7, 222-228.	1.4	45
92	Observation of the π^2 -Phase in Two Short-Chain Oligofluorenes. <i>Advanced Functional Materials</i> , 2008, 18, 600-606.	7.8	44
93	Nonradiative exciton energy transfer in hybrid organic-inorganic heterostructures. <i>Physical Review B</i> , 2008, 77, .	1.1	44
94	Preparation and Properties of 4-Dialkylamino-phenyl-N-Functionalized 2,7-Linked Carbazole Polymers. <i>Chemistry of Materials</i> , 2006, 18, 5789-5797.	3.2	43
95	Correlating the electron-donating core structure with morphology and performance of carbon oxygen-bridged ladder-type non-fullerene acceptor based organic solar cells. <i>Nano Energy</i> , 2019, 61, 318-326.	8.2	43
96	Characterizing the Electroluminescence Emission from a Strongly Coupled Organic Semiconductor Microcavity LED. <i>Advanced Optical Materials</i> , 2013, 1, 503-509.	3.6	42
97	Photopatterning, Etching, and Derivatization of Self-Assembled Monolayers of Phosphonic Acids on the Native Oxide of Titanium. <i>Langmuir</i> , 2009, 25, 10746-10753.	1.6	41
98	Anthracene-based donor-acceptor low band gap polymers for application in solar cells. <i>Chemical Communications</i> , 2013, 49, 2252.	2.2	41
99	The role of dynamic measurements in correlating structure with optoelectronic properties in polymer-fullerene bulk-heterojunction solar cells. <i>Reports on Progress in Physics</i> , 2013, 76, 022501.	8.1	41
100	An ultrafast spectroscopy study of stimulated emission in poly(9,9-dioctylfluorene) films and microcavities. <i>Applied Physics Letters</i> , 1999, 74, 2767-2769.	1.5	40
101	Laser-assisted patterning of conjugated polymer light emitting diodes. <i>Organic Electronics</i> , 2005, 6, 221-228.	1.4	39
102	Solution processed nickel oxide anodes for organic photovoltaic devices. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	39
103	Influence of the orientation of liquid crystalline poly(9,9-dioctylfluorene) on its lasing properties in a planar microcavity. <i>Applied Physics Letters</i> , 2002, 80, 4088-4090.	1.5	38
104	Imaging the polariton relaxation bottleneck in strongly coupled organic semiconductor microcavities. <i>Physical Review B</i> , 2013, 88, .	1.1	38
105	Hybrid organic-inorganic polariton laser. <i>Scientific Reports</i> , 2017, 7, 11377.	1.6	38
106	Completely polarized photoluminescence emission from a microcavity containing an aligned conjugated polymer. <i>Chemical Physics Letters</i> , 2001, 341, 219-224.	1.2	37
107	Ultralong-Range Polariton-Assisted Energy Transfer in Organic Microcavities. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16661-16667.	7.2	37
108	Strong coupling in high-finesse organic semiconductor microcavities. <i>Applied Physics Letters</i> , 2003, 83, 5377-5379.	1.5	36

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109	A New Class of Blue-Emitting Materials for LED Applications: TriarylamineN-Functionalised 2,7-Linked Carbazole Polymers. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1155-1160.	2.0	36
110	Phenylenevinylene Block Copolymers via Ring-Opening Metathesis Polymerization. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1889-1892.	2.0	36
111	Temperature dependence of the upper-branch polariton population in an organic semiconductor microcavity. <i>Physical Review B</i> , 2011, 84, .	1.1	36
112	A flexible back-contact perovskite solar micro-module. <i>Energy and Environmental Science</i> , 2019, 12, 1928-1937.	15.6	35
113	Competition between substrate-mediated π - π stacking and surface-mediated Tg depression in ultrathin conjugated polymer films. <i>European Physical Journal E</i> , 2012, 35, 9807.	0.7	34
114	Tin dopant removal through anti-solvent engineering enabling tin based perovskite solar cells with high charge carrier mobilities. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8389-8397.	2.7	34
115	Room Temperature Broadband Polariton Lasing from a Dye-Filled Microcavity. <i>Advanced Optical Materials</i> , 2019, 7, 1900163.	3.6	34
116	Phase separation in polyfluorene-polymethylmethacrylate blends studied using UV near-field microscopy. <i>Journal of Microscopy</i> , 2003, 209, 188-193.	0.8	33
117	High-speed electroluminescence modulation of a conjugated-polymer light emitting diode. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	33
118	Device degradation of polymer light emitting diodes studied by electroabsorption measurements. <i>Applied Physics Letters</i> , 1999, 75, 2144-2146.	1.5	32
119	Controlling the interactions between polaritons and molecular vibrations in strongly coupled organic semiconductor microcavities. <i>Physical Review B</i> , 2008, 78, .	1.1	32
120	Comparative indoor and outdoor stability measurements of polymer based solar cells. <i>Scientific Reports</i> , 2017, 7, 1305.	1.6	32
121	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. <i>Nature Communications</i> , 2021, 12, 6519.	5.8	32
122	A Characterization of the Raman Modes in a J-Aggregate-Forming Dye: A Comparison between Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11920-11927.	1.1	30
123	Strong Exciton-Photon Coupling in a Nanographene Filled Microcavity. <i>Nano Letters</i> , 2017, 17, 5521-5525.	4.5	30
124	A hybrid organic-inorganic polariton LED. <i>Light: Science and Applications</i> , 2019, 8, 81.	7.7	30
125	Metal-organic framework nanosheets for enhanced performance of organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6067-6075.	5.2	30
126	Optical strong coupling in microcavities containing J-aggregates absorbing in near-infrared spectral range. <i>Organic Electronics</i> , 2007, 8, 120-126.	1.4	29

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127	Optical nanolithography using a scanning near-field probe with an integrated light source. Applied Physics Letters, 2008, 93, 213103.	1.5	29
128	Detecting 6MV X-rays using an organic photovoltaic device. Organic Electronics, 2009, 10, 1170-1173.	1.4	29
129	Grain rotation and lattice deformation during perovskite spray coating and annealing probed <i>in situ</i> by GI-WAXS. CrystEngComm, 2016, 18, 5448-5455.	1.3	29
130	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
131	Gas-Assisted Spray Coating of Perovskite Solar Cells Incorporating Sprayed Self-Assembled Monolayers. Advanced Science, 2022, 9, e2104848.	5.6	29
132	Imaging the Bulk Nanoscale Morphology of Organic Solar Cell Blends Using Helium Ion Microscopy. Nano Letters, 2011, 11, 4275-4281.	4.5	28
133	Electroluminescence from a soluble poly(p-phenylenevinylene) derivative generated using a scanning tunneling microscope. Applied Physics Letters, 1997, 71, 2008-2010.	1.5	27
134	Impact of fluorine substitution upon the photovoltaic properties of benzothiadiazole-fluorene alternate copolymers. RSC Advances, 2015, 5, 46386-46394.	1.7	27
135	High efficiency arrays of polymer solar cells fabricated by spray-coating in air. Progress in Photovoltaics: Research and Applications, 2016, 24, 275-282.	4.4	27
136	Mapping Morphological and Structural Properties of Lead Halide Perovskites by Scanning Nanofocus XRD. Advanced Functional Materials, 2016, 26, 8221-8230.	7.8	27
137	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
138	Potassium iodide reduces the stability of triple-cation perovskite solar cells. RSC Advances, 2020, 10, 40341-40350.	1.7	27
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	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
141	Band energy control of molybdenum oxide by surface hydration. Applied Physics Letters, 2015, 107, .	1.5	26
142	Air processed organic photovoltaic devices incorporating a MoOx anode buffer layer. Applied Physics Letters, 2013, 102, 183303.	1.5	25
143	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
144	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

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145	Experimental Evidence for Exciton Scaling Effects in Self-Assembled Molecular Wires. <i>Physical Review Letters</i> , 2004, 93, 257401.	2.9	24
146	Fluorene-Based Copolymer with High Hole Mobility and Device Performance in Bulk Heterojunction Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1157-1162.	2.0	24
147	Untargeted effects in organic exciton-polariton transient spectroscopy: A cautionary tale. <i>Journal of Chemical Physics</i> , 2021, 155, 154701.	1.2	24
148	Ultrafast polariton dynamics in strongly coupled zinc porphyrin microcavities at room temperature. <i>Physical Review B</i> , 2006, 74, .	1.1	23
149	Raman spectroscopy of fluorene oligomers in the $\hat{1}^{\pm}$, $\hat{1}^2$ - and $\hat{1}^3$ -phases. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 125213.	0.7	23
150	Single molecule spectroscopy of red- and green-emitting fluorene-based copolymers. <i>Journal of Chemical Physics</i> , 2009, 130, 044903.	1.2	23
151	Two-Dimensional Organic-Exciton Polariton Lattice Fabricated Using Laser Patterning. <i>ACS Photonics</i> , 2020, 7, 2273-2281.	3.2	23
152	Imaging Joule heating in a conjugated-polymer light-emitting diode using a scanning thermal microscope. <i>Applied Physics Letters</i> , 2004, 84, 4890-4892.	1.5	22
153	The Impact of Interfacial Mixing on Förster Transfer at Conjugated Polymer Heterojunctions. <i>Advanced Functional Materials</i> , 2009, 19, 157-163.	7.8	22
154	Stability of X-Ray Detectors Based on Organic Photovoltaic Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1770-1775.	1.9	22
155	A novel 2,7-linked carbazole based "double cable" polymer with pendant perylene diimide functional groups: preparation, spectroscopy and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 851-862.	6.7	21
156	Degradation of inverted architecture $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells due to trapped moisture. <i>Energy Science and Engineering</i> , 2018, 6, 35-46.	2.0	21
157	Generation of Anti-Stokes Fluorescence in a Strongly Coupled Organic Semiconductor Microcavity. <i>ACS Photonics</i> , 2018, 5, 4343-4351.	3.2	21
158	The Influence of MoO_3 Anode Stoichiometry on the Performance of Bulk Heterojunction Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 903-908.	10.2	20
159	Enhancing the efficiency of PTB7-Th:CO ₈ DFIC-based ternary solar cells with versatile third components. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	20
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