

Stephen R Forrest

List of Publications by Citations

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180
papers

26,943
citations

54
h-index

164
g-index

195
ext. papers

28,924
ext. citations

10.8
avg, IF

7.5
L-index

#	Paper	IF	Citations
180	The path to ubiquitous and low-cost organic electronic appliances on plastic. <i>Nature</i> , 2004 , 428, 911-8	50.4	4347
179	Nearly 100% internal phosphorescence efficiency in an organic light-emitting device. <i>Journal of Applied Physics</i> , 2001 , 90, 5048-5051	2.5	2883
178	Highly phosphorescent bis-cyclometalated iridium complexes: synthesis, photophysical characterization, and use in organic light emitting diodes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4304-12	16.4	2408
177	Small molecular weight organic thin-film photodetectors and solar cells. <i>Journal of Applied Physics</i> , 2003 , 93, 3693-3723	2.5	2307
176	Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques. <i>Chemical Reviews</i> , 1997 , 97, 1793-1896	68.1	1666
175	Endothermic energy transfer: A mechanism for generating very efficient high-energy phosphorescent emission in organic materials. <i>Applied Physics Letters</i> , 2001 , 79, 2082-2084	3.4	953
174	Effects of film morphology and gate dielectric surface preparation on the electrical characteristics of organic-vapor-phase-deposited pentacene thin-film transistors. <i>Applied Physics Letters</i> , 2002 , 81, 268-270	3.4	602
173	Deep blue phosphorescent organic light-emitting diodes with very high brightness and efficiency. <i>Nature Materials</i> , 2016 , 15, 92-8	27	539
172	Three-Color, Tunable, Organic Light-Emitting Devices. <i>Science</i> , 1997 , 276, 2009-2011	33.3	522
171	4.2% efficient organic photovoltaic cells with low series resistances. <i>Applied Physics Letters</i> , 2004 , 84, 3013-3015	3.4	498
170	Controlled growth of a molecular bulk heterojunction photovoltaic cell. <i>Nature Materials</i> , 2004 , 4, 37-41	27	489
169	Enhanced light out-coupling of organic light-emitting devices using embedded low-index grids. <i>Nature Photonics</i> , 2008 , 2, 483-487	33.9	471
168	Ultrahigh Energy Gap Hosts in Deep Blue Organic Electrophosphorescent Devices. <i>Chemistry of Materials</i> , 2004 , 16, 4743-4747	9.6	450
167	High efficiency single dopant white electrophosphorescent light emitting diodes. <i>New Journal of Chemistry</i> , 2002 , 26, 1171-1178	3.6	450
166	Electroluminescence mechanisms in organic light emitting devices employing a europium chelate doped in a wide energy gap bipolar conducting host. <i>Journal of Applied Physics</i> , 2000 , 87, 8049-8055	2.5	372
165	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020 , 5, 35-49	62.3	369
164	Exciton diffusion lengths of organic semiconductor thin films measured by spectrally resolved photoluminescence quenching. <i>Journal of Applied Physics</i> , 2009 , 105, 053711	2.5	369

163	Energy transfer in polymer electrophosphorescent light emitting devices with single and multiple doped luminescent layers. <i>Journal of Applied Physics</i> , 2002 , 92, 87-93	2.5	347
162	High Efficiency Near-Infrared and Semitransparent Non-Fullerene Acceptor Organic Photovoltaic Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17114-17119	16.4	312
161	Tenfold increase in the lifetime of blue phosphorescent organic light-emitting diodes. <i>Nature Communications</i> , 2014 , 5, 5008	17.4	310
160	Suppressing molecular motions for enhanced room-temperature phosphorescence of metal-free organic materials. <i>Nature Communications</i> , 2015 , 6, 8947	17.4	269
159	Solvent-Annealed Crystalline Squaraine: PC70BM (1:6) Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 184-187	21.8	242
158	Dynamic kirigami structures for integrated solar tracking. <i>Nature Communications</i> , 2015 , 6, 8092	17.4	240
157	Organic small molecule solar cells with a homogeneously mixed copper phthalocyanine: C60 active layer. <i>Applied Physics Letters</i> , 2004 , 84, 4218-4220	3.4	235
156	Hole Transporting Materials with High Glass Transition Temperatures for Use in Organic Light-Emitting Devices. <i>Advanced Materials</i> , 1998 , 10, 1108-1112	24	234
155	Micropatterning of organic electronic devices by cold-welding. <i>Science</i> , 2000 , 288, 831-3	33.3	216
154	Effects of systematic methyl substitution of metal (III) tris(n-methyl-8-quinolinolato) chelates on material properties for optimum electroluminescence device performance. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6300-7	16.4	192
153	Open circuit voltage enhancement due to reduced dark current in small molecule photovoltaic cells. <i>Applied Physics Letters</i> , 2009 , 94, 023307	3.4	186
152	High-efficiency yellow double-doped organic light-emitting devices based on phosphor-sensitized fluorescence. <i>Applied Physics Letters</i> , 2001 , 79, 1045-1047	3.4	181
151	Hot excited state management for long-lived blue phosphorescent organic light-emitting diodes. <i>Nature Communications</i> , 2017 , 8, 15566	17.4	153
150	Thermodynamic efficiency limit of excitonic solar cells. <i>Physical Review B</i> , 2011 , 83,	3.3	138
149	Organic Vapor Phase Deposition. <i>Advanced Materials</i> , 1998 , 10, 1505-1514	24	122
148	Nanolithography based on patterned metal transfer and its application to organic electronic devices. <i>Applied Physics Letters</i> , 2002 , 80, 4051-4053	3.4	105
147	Intrinsically stable organic solar cells under high-intensity illumination. <i>Nature</i> , 2019 , 573, 394-397	50.4	104
146	Material transport regimes and mechanisms for growth of molecular organic thin films using low-pressure organic vapor phase deposition. <i>Journal of Applied Physics</i> , 2001 , 89, 1470-1476	2.5	102

145	High-Efficiency, Vacuum-Deposited, Small-Molecule Organic Tandem and Triple-Junction Photovoltaic Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400568	21.8	100
144	High efficiency organic photovoltaic cells based on a vapor deposited squaraine donor. <i>Applied Physics Letters</i> , 2009 , 94, 233304	3.4	94
143	A hybrid planar-mixed tetraphenyldibenzoperiflanthene/C70 photovoltaic cell. <i>Applied Physics Letters</i> , 2013 , 102, 073302	3.4	90
142	Existence of continuous-wave threshold for organic semiconductor lasers. <i>Physical Review B</i> , 2011 , 84,	3.3	79
141	Transforming the cost of solar-to-electrical energy conversion: Integrating thin-film GaAs solar cells with non-tracking mini-concentrators. <i>Light: Science and Applications</i> , 2015 , 4, e288-e288	16.7	69
140	Micropatterning of small molecular weight organic semiconductor thin films using organic vapor phase deposition. <i>Journal of Applied Physics</i> , 2003 , 93, 4005-4016	2.5	69
139	Enhanced light extraction from organic light-emitting devices using a sub-anode grid. <i>Nature Photonics</i> , 2015 , 9, 758-763	33.9	68
138	Organic photovoltaics incorporating electron conducting exciton blocking layers. <i>Applied Physics Letters</i> , 2011 , 98, 243307	3.4	68
137	Effects of exciton and charge confinement on the performance of white organic p-i-n electrophosphorescent emissive excimer devices. <i>Journal of Applied Physics</i> , 2003 , 94, 3101-3109	2.5	68
136	Enhanced Light Utilization in Semitransparent Organic Photovoltaics Using an Optical Outcoupling Architecture. <i>Advanced Materials</i> , 2019 , 31, e1903173	24	64
135	Analysis of metal-oxide-based charge generation layers used in stacked organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2010 , 107, 014514	2.5	62
134	Nearly 100% Horizontal Dipole Orientation and Upconversion Efficiency in Blue Thermally Activated Delayed Fluorescent Emitters. <i>Advanced Optical Materials</i> , 2018 , 6, 1701340	8.1	62
133	Photochemical origins of burn-in degradation in small molecular weight organic photovoltaic cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1005-1010	35.4	59
132	A low switching voltage organic-on-inorganic heterojunction memory element utilizing a conductive polymer fuse on a doped silicon substrate. <i>Applied Physics Letters</i> , 2004 , 84, 5019-5021	3.4	59
131	Growth and characterization of small band gap (~0.6 eV) InGaAsN layers on InP. <i>Applied Physics Letters</i> , 1999 , 74, 1287-1289	3.4	57
130	Centimetre-scale electron diffusion in photoactive organic heterostructures. <i>Nature</i> , 2018 , 554, 77-80	50.4	55
129	Stacked white organic light emitting devices consisting of separate red, green, and blue elements. <i>Applied Physics Letters</i> , 2008 , 93, 193306	3.4	55
128	Efficient, Nonintrusive Outcoupling in Organic Light Emitting Devices Using Embedded Microlens Arrays. <i>ACS Photonics</i> , 2018 , 5, 2453-2458	6.3	54

127	Tandem organic photovoltaics using both solution and vacuum deposited small molecules. <i>Applied Physics Letters</i> , 2012 , 101, 063303	3.4	54
126	Carrier transport in multilayer organic photodetectors: II. Effects of anode preparation. <i>Journal of Applied Physics</i> , 2004 , 95, 1869-1877	2.5	54
125	Small-Molecule Planar-Mixed Heterojunction Photovoltaic Cells with Fullerene-Based Electron Filtering Buffers. <i>Advanced Energy Materials</i> , 2014 , 4, 1301557	21.8	52
124	Energy Loss in Organic Photovoltaics: Nonfullerene Versus Fullerene Acceptors. <i>Physical Review Applied</i> , 2019 , 11,	4.3	51
123	Optical nonlinearities in crystalline organic multiple quantum wells. <i>Physical Review Letters</i> , 1991 , 66, 1614-1617	7.4	50
122	Near-Infrared Ternary Tandem Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1804416	24	50
121	Organic thin-film transistors based on bis(1,2,5-thiadiazolo)-p-quinobis (1,3-dithiole). <i>Applied Physics Letters</i> , 2001 , 79, 3714-3716	3.4	49
120	Organic Photovoltaics Using Tetraphenylbenzoporphyrin Complexes as Donor Layers. <i>Advanced Materials</i> , 2009 , 21, 1517-1520	24	48
119	Reuse of GaAs substrates for epitaxial lift-off by employing protection layers. <i>Journal of Applied Physics</i> , 2012 , 111, 033527	2.5	48
118	Near-perfect photon utilization in an air-bridge thermophotovoltaic cell. <i>Nature</i> , 2020 , 586, 237-241	50.4	48
117	Room temperature Frenkel-Wannier-Mott hybridization of degenerate excitons in a strongly coupled microcavity. <i>Physical Review Letters</i> , 2014 , 112, 076401	7.4	46
116	Non-Destructive Wafer Recycling for Low-Cost Thin-Film Flexible Optoelectronics. <i>Advanced Functional Materials</i> , 2014 , 24, 4284-4291	15.6	46
115	Simultaneous heterojunction organic solar cells with broad spectral sensitivity. <i>Applied Physics Letters</i> , 2008 , 92, 053310	3.4	46
114	Color-neutral, semitransparent organic photovoltaics for power window applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21147-21154	11.5	44
113	Carrier transport in multilayer organic photodetectors: I. Effects of layer structure on dark current and photoresponse. <i>Journal of Applied Physics</i> , 2004 , 95, 1859-1868	2.5	42
112	Isomeric Effects of Solution Processed Ladder-Type Non-Fullerene Electron Acceptors. <i>Solar Rrl</i> , 2017 , 1, 1700107	7.1	41
111	Charge Transfer States in Dilute Donor-Acceptor Blend Organic Heterojunctions. <i>ACS Nano</i> , 2016 , 10, 7619-26	16.7	41
110	Charge transport and exciton dissociation in organic solar cells consisting of dipolar donors mixed with C70. <i>Physical Review B</i> , 2015 , 92,	3.3	40

109	Evolution of quasi-epitaxial growth of a crystalline organic semiconductor on graphite. <i>Applied Physics Letters</i> , 1992 , 60, 3223-3225	3.4	38
108	Excited state and charge dynamics of hybrid organic/inorganic heterojunctions. I. Theory. <i>Physical Review B</i> , 2014 , 90,	3.3	37
107	Multiple growths of epitaxial lift-off solar cells from a single InP substrate. <i>Applied Physics Letters</i> , 2010 , 97, 101107	3.4	37
106	Organic optical bistable switch. <i>Applied Physics Letters</i> , 2003 , 82, 136-138	3.4	34
105	Thin-Film Architectures with High Spectral Selectivity for Thermophotovoltaic Cells. <i>ACS Photonics</i> , 2018 , 5, 2748-2754	6.3	33
104	Direct mask-free patterning of molecular organic semiconductors using organic vapor jet printing. <i>Journal of Applied Physics</i> , 2004 , 96, 4500-4507	2.5	32
103	Excitons and the lifetime of organic semiconductor devices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	31
102	Twist-angle dependence of moiré excitons in WS ₂ /MoSe ₂ heterobilayers. <i>Nature Communications</i> , 2020 , 11, 5888	17.4	31
101	Elimination of Plasmon Losses and Enhanced Light Extraction of Top-Emitting Organic Light-Emitting Devices Using a Reflective Subelectrode Grid. <i>ACS Photonics</i> , 2017 , 4, 363-368	6.3	30
100	Ultrathin film, high specific power InP solar cells on flexible plastic substrates. <i>Applied Physics Letters</i> , 2009 , 95, 223503	3.4	30
99	Organic photodetector arrays with indium tin oxide electrodes patterned using directly transferred metal masks. <i>Applied Physics Letters</i> , 2009 , 94, 043313	3.4	30
98	Enhanced efficiency in high-brightness fluorescent organic light emitting diodes through triplet management. <i>Applied Physics Letters</i> , 2011 , 99, 223303	3.4	29
97	Measurement of exciton diffusion lengths in optically thin organic films. <i>Applied Physics Letters</i> , 2011 , 99, 243303	3.4	28
96	Snow cleaning of substrates increases yield of large-area organic photovoltaics. <i>Applied Physics Letters</i> , 2012 , 101, 133901	3.4	28
95	Direct vapor jet printing of three color segment organic light emitting devices for white light illumination. <i>Applied Physics Letters</i> , 2008 , 92, 053301	3.4	28
94	Van der Waals heterostructure polaritons with moiré-induced nonlinearity. <i>Nature</i> , 2021 , 591, 61-65	50.4	28
93	Flexible Thin-Film InGaAs Photodiode Focal Plane Array. <i>ACS Photonics</i> , 2016 , 3, 670-676	6.3	28
92	Donor-Acceptor-Acceptor's Molecules for Vacuum-Deposited Organic Photovoltaics with Efficiency Exceeding 9%. <i>Advanced Energy Materials</i> , 2018 , 8, 1703603	21.8	27

91	Excited state and charge dynamics of hybrid organic/inorganic heterojunctions. II. Experiment. <i>Physical Review B</i> , 2014 , 90,	3.3	26
90	Ordered organic-organic multilayer growth. <i>Physical Review B</i> , 2011 , 83,	3.3	26
89	Full-wave simulation of enhanced outcoupling of organic light-emitting devices with an embedded low-index grid. <i>Applied Physics Letters</i> , 2009 , 94, 163302	3.4	26
88	Vertical orientation of copper phthalocyanine in organic solar cells using a small molecular weight organic templating layer. <i>Applied Physics Letters</i> , 2011 , 99, 043308	3.4	25
87	Non-fullerene acceptor organic photovoltaics with intrinsic operational lifetimes over 30 years. <i>Nature Communications</i> , 2021 , 12, 5419	17.4	25
86	Phenanthro[9,10-d]triazole and imidazole derivatives: high triplet energy host materials for blue phosphorescent organic light emitting devices. <i>Materials Horizons</i> , 2019 , 6, 1179-1186	14.4	24
85	Organic vapor phase deposition for the growth of large area organic electronic devices. <i>Applied Physics Letters</i> , 2009 , 95, 233305	3.4	23
84	Stable and efficient electrophosphorescent organic light-emitting devices grown by organic vapor phase deposition. <i>Applied Physics Letters</i> , 2005 , 86, 021107	3.4	23
83	Systematic Control of the Orientation of Organic Phosphorescent Pt Complexes in Thin Films for Increased Optical Outcoupling. <i>Advanced Materials</i> , 2019 , 31, e1900921	24	22
82	An electrophosphorescent organic light emitting concentrator. <i>Light: Science and Applications</i> , 2014 , 3, e181-e181	16.7	22
81	Temperature dependence of polariton lasing in a crystalline anthracene microcavity. <i>Physical Review B</i> , 2012 , 86,	3.3	21
80	Thermal analysis of high intensity organic light-emitting diodes based on a transmission matrix approach. <i>Journal of Applied Physics</i> , 2011 , 110, 124516	2.5	21
79	Optical detectors: Three contenders: Depending on the application, the photoconductor, p-i-n diode, or avalanche photodiode may prove the best choice. <i>IEEE Spectrum</i> , 1986 , 23, 76-85	1.7	21
78	Charge Transfer and Collection in Dilute Organic Donor-Acceptor Heterojunction Blends. <i>Nano Letters</i> , 2018 , 18, 3180-3184	11.5	20
77	Cost estimates of production scale semitransparent organic photovoltaic modules for building integrated photovoltaics. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5765-5772	5.8	20
76	Novel organic-on-InP field-effect transistor. <i>Applied Physics Letters</i> , 1985 , 47, 1217-1219	3.4	19
75	Reliability of Small Molecule Organic Photovoltaics with Electron-Filtering Compound Buffer Layers. <i>Advanced Energy Materials</i> , 2016 , 6, 1601094	21.8	19
74	Charge Balance and Exciton Confinement in Phosphorescent Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2016 , 4, 889-895	8.1	18

73	Understanding tandem organic photovoltaic cell performance. <i>Journal of Applied Physics</i> , 2013 , 113, 214505	2.5	18
72	Bilayer Interdiffused Heterojunction Organic Photodiodes Fabricated by Double Transfer Stamping. <i>Advanced Optical Materials</i> , 2017 , 5, 1600784	8.1	16
71	Origami Solar-Tracking Concentrator Array for Planar Photovoltaics. <i>ACS Photonics</i> , 2016 , 3, 2134-2140	6.3	16
70	Optically powered arrays for optoelectronic interconnection networks. <i>Applied Optics</i> , 1991 , 30, 1335-46	1.7	16
69	From 2D to 3D: Strain- and elongation-free topological transformations of optoelectronic circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3968-3973	11.5	15
68	Efficient Charge Generation via Hole Transfer in Dilute Organic Donor-Fullerene Blends. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2203-2210	6.4	15
67	Engineering Temperature-Dependent Carrier Concentration in Bulk Composite Materials via Temperature-Dependent Fermi Level Offset. <i>Advanced Energy Materials</i> , 2018 , 8, 1701623	21.8	15
66	Free and trapped hybrid charge transfer excitons at a ZnO/small-molecule heterojunction. <i>Physical Review B</i> , 2016 , 94,	3.3	15
65	Inverted small molecule organic photovoltaic cells on reflective substrates. <i>Applied Physics Letters</i> , 2008 , 93, 173304	3.4	15
64	Blue Emissive fac/mer-Iridium (III) NHC Carbene Complexes and their Application in OLEDs. <i>Advanced Optical Materials</i> , 2021 , 9, 2001994	8.1	15
63	Near-field thermophotovoltaics for efficient heat to electricity conversion at high power density. <i>Nature Communications</i> , 2021 , 12, 4364	17.4	15
62	Ultralong-Range Energy Transport in a Disordered Organic Semiconductor at Room Temperature Via Coherent Exciton-Polariton Propagation. <i>Advanced Materials</i> , 2020 , 32, e2002127	24	14
61	Continuous roll-to-roll fabrication of organic photovoltaic cells via interconnected high-vacuum and low-pressure organic vapor phase deposition systems. <i>Applied Physics Letters</i> , 2018 , 113, 053302	3.4	14
60	Effects of Charge Balance and Exciton Confinement on the Operational Lifetime of Blue Phosphorescent Organic Light-Emitting Diodes. <i>Physical Review Applied</i> , 2017 , 7,	4.3	14
59	Growth of abrupt InGaAs(P)/In(GaAs)P heterointerfaces by gas source molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1995 , 77, 201-209	2.5	12
58	Efficient Outcoupling of Organic Light-Emitting Devices Using a Light-Scattering Dielectric Layer. <i>ACS Photonics</i> , 2018 , 5, 3315-3321	6.3	12
57	Nonideal Diode Behavior and Bandgap Renormalization in Carbon Nanotube p-n Junctions. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 41-45	2.6	9
56	Epitaxial lift-off of GaAs thin-film solar cells followed by substrate reuse 2012 ,		9

55	Surprisingly High Conductivity and Efficient Exciton Blocking in Fullerene/Wide-Energy-Gap Small Molecule Mixtures. <i>Nano Letters</i> , 2015 , 15, 3994-9	11.5	8
54	Theory of the perfect lens. <i>Physical Review B</i> , 2011 , 84,	3.3	8
53	Reciprocal carrier collection in organic photovoltaics. <i>Physical Review B</i> , 2011 , 84,	3.3	8
52	Low-threshold 1.3- μm wavelength, InGaAsP strained-layer multiple quantum well lasers grown by gas source molecular beam epitaxy. <i>Applied Physics Letters</i> , 1994 , 65, 892-894	3.4	8
51	Reliability of Mixed-Heterojunction Organic Photovoltaics Grown via Organic Vapor Phase Deposition. <i>Advanced Energy Materials</i> , 2015 , 5, 1401952	21.8	7
50	Quantum Confinement of Hybrid Charge Transfer Excitons in GaN/InGaN/Organic Semiconductor Quantum Wells. <i>Nano Letters</i> , 2017 , 17, 7853-7858	11.5	7
49	Using Fourier-Plane Imaging Microscopy for Determining Transition-Dipole-Moment Orientations in Organic Light-Emitting Devices. <i>Physical Review Applied</i> , 2020 , 14,	4.3	7
48	Ultrastrong coupling of vibrationally dressed organic Frenkel excitons with Bloch surface waves in a one-sided all-dielectric structure. <i>Physical Review B</i> , 2019 , 100,	3.3	6
47	Temperature dependence of the exciton dynamics in DCM2:Alq3. <i>Physical Review B</i> , 2014 , 90,	3.3	6
46	Mass Transport through the Carrier Gas Boundary Layer in Organic Vapor Phase Deposition. <i>Physical Review Applied</i> , 2014 , 1,	4.3	6
45	Singlets lead to photogeneration in C60-based organic heterojunctions. <i>Physical Review B</i> , 2015 , 92,	3.3	6
44	Response to [Comment on "Thermodynamic limits of quantum photovoltaic cell efficiency" [Appl. Phys. Lett. 92, 066101 (2008)]]. <i>Applied Physics Letters</i> , 2008 , 92, 066102	3.4	6
43	Surface passivation of InP/In _{0.53} Ga _{0.47} As heterojunction bipolar transistors for opto-electronic integration. <i>Journal of Electronic Materials</i> , 1996 , 25, 537-540	1.9	6
42	Mechanistic Study of Charge Separation in a Nonfullerene Organic Donor-Acceptor Blend Using Multispectral Multidimensional Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3410-3416	6.4	6
41	Tuning the Photophysical and Electrochemical Properties of Aza-Boron-Dipyridylmethenes for Fluorescent Blue OLEDs. <i>Advanced Functional Materials</i> , 2021 , 31, 2101175	15.6	6
40	Kirigami-Based Compliant Mechanism for Multiaxis Optical Tracking and Energy-Harvesting Applications. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001079	3.5	6
39	Temperature-Dependence of an Amorphous Organic Thin Film Polariton Laser. <i>ACS Photonics</i> , 2020 , 7, 867-872	6.3	5
38	Novel methods to analyze and fabricate electrically small antennas 2011 ,		5

37	22.1: Invited Paper: Color Tuning Dopants for Electrophosphorescent Devices: Toward Efficient Blue Phosphorescence from Metal Complexes. <i>Digest of Technical Papers SID International Symposium</i> , 2005 , 36, 1058	0.5	5
36	Transient capacitance analysis of III-V semiconductors with organic-on-inorganic semiconductor contact barrier diodes. <i>Applied Physics Letters</i> , 1985 , 46, 506-508	3-4	5
35	Modifying the Spectral Weights of Vibronic Transitions via Strong Coupling to Surface Plasmons. <i>ACS Photonics</i> , 2020 , 7, 43-48	6.3	5
34	Molecular Alignment of Homoleptic Iridium Phosphors in Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2021 , 33, e2102882	24	5
33	Preserving voltage and long wavelength photoresponse in GaSb/GaAs quantum dot solar cells 2013		4
32	Polymer photovoltaic cells with a graded active region achieved using double stamp transfer printing. <i>Applied Physics Letters</i> , 2013 , 103, 193301	3-4	4
31	A subwavelength near-infrared negative index material. <i>Applied Physics Letters</i> , 2009 , 94, 131107	3-4	4
30	47.4: Blue Phosphorescent Organic Light Emitting Device Stability Analysis. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 712	0.5	4
29	Integratable High Linearity Compact Waveguide Coupled Tapered InGaAsP Photodetectors. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 597-606	2	4
28	27.4: Modeling and Fabrication of Organic Vapor Phase Deposition (OVPD) Equipment for OLED Display Manufacturing. <i>Digest of Technical Papers SID International Symposium</i> , 2002 , 33, 894	0.5	4
27	Waiting for Act 2: what lies beyond organic light-emitting diode (OLED) displays for organic electronics?. <i>Nanophotonics</i> , 2020 , 10, 31-40	6.3	4
26	Reducing Energy Losses at the Organic-Buffer Interface of Organic Photovoltaics. <i>Physical Review Applied</i> , 2020 , 13,	4-3	3
25	New D-A-A'-Configured Small Molecule Donors Employing Conjugation to Red-shift the Absorption for Photovoltaics. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2520-2531	4-5	3
24	A high throughput, linear molecular beam epitaxy system for reduced cost manufacturing of GaAs photovoltaic cells: will GaAs ever be inexpensive enough?. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2035-2042	5.8	3
23	Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films 2010 , 94-98		3
22	Theory of Stark shifts in quantum wells consisting of highly anisotropic molecular-crystalline layers. <i>Physical Review B</i> , 1993 , 48, 17584-17587	3-3	3
21	Formation and tuning of moiré excitons in large-twist angle WS ₂ /MoSe ₂ heterobilayers		3
20	Photogeneration and the bulk quantum efficiency of organic photovoltaics. <i>Energy and Environmental Science</i> , 2021 , 14, 1584-1593	35.4	3

19	Nanoscale Mapping of Morphology of Organic Thin Films. <i>Nano Letters</i> , 2020 , 20, 8290-8297	11.5	2
18	Organic Charge-Coupled Device. <i>ACS Photonics</i> , 2019 , 6, 2090-2095	6.3	2
17	Organic Photodetector Focal Plane Arrays Fabricated on Hemispherical Substrates by Three-Dimensional Stamping 2007 ,		2
16	25.1: Invited Paper: Achieving Efficient Solid State Lighting Using Organic Light Emitting Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 1109-1109	0.5	2
15	27.2: Single Dopant p-i-n White Organic Light Emitting Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2003 , 34, 967	0.5	2
14	Nanoscale Control of Morphology in Fullerene-Based Electron-Conducting Buffers via Organic Vapor Phase Deposition. <i>Nano Letters</i> , 2016 , 16, 3905-10	11.5	2
13	Neutralizing Defect States in MoS Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44686-44692	4.9	2
12	Highly efficient (11.1%) small molecule multi-junction organic photovoltaic cells 2014 ,		1
11	Conformal, structurally integrated antenna with a thin-film solar cell array for flapping-wing robots 2013 ,		1
10	A 10 \times 10 all-organic passive pixel sensor array 2010 ,		1
9	Helium ion-implanted InGaAsP tunnel junction current blocking layers. <i>Applied Physics Letters</i> , 2002 , 81, 984-986	3.4	1
8	Symmetric Double Spiro Wide Energy Gap Hosts for Blue Phosphorescent OLED Devices. <i>Advanced Optical Materials</i> , 2022 , 10, 2101530	8.1	1
7			
6	Fast Organic Vapor Phase Deposition of Thin Films in Light-Emitting Diodes. <i>ACS Nano</i> , 2020 , 14, 14157-14163	16.7	1
5	Printable Organic Electronic Materials for Precisely Positioned Cell Attachment. <i>Langmuir</i> , 2021 , 37, 1874-1881	4.1	1
4	Hole Transporting Materials with High Glass Transition Temperatures for Use in Organic Light-Emitting Devices 1998 , 10, 1108		1
3	Organic Vapor Phase Deposition 1998 , 10, 1505		1
2	Patterning: Direct Transfer Patterning of Electrically Small Antennas onto Three-Dimensionally Contoured Substrates (Adv. Mater. 9/2012). <i>Advanced Materials</i> , 2012 , 24, 1138-1138	24	

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