

Bernard Kippelen

List of Publications by Year in descending order

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365
papers

23,357
citations

7551

77
h-index

9311

143
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372
all docs

372
docs citations

372
times ranked

20021
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminaire for Connected Lighting System with Spectrum that Mimics Natural Light. , 2022, , .		1
2	Efficient Electrical Doping of Organic Semiconductors Via an Orthogonal Liquid-Liquid Contact. Advanced Functional Materials, 2021, 31, 2009660.	7.8	10
3	Organic photodetector with built-in amplification for the detection of visible light with low optical power. Organic Electronics, 2021, 90, 106064.	1.4	4
4	Increasing Volume in Conjugated Polymers to Facilitate Electrical Doping with Phosphomolybdic Acid. ACS Applied Materials & Interfaces, 2021, 13, 23260-23267.	4.0	5
5	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 9347-9353.	5.2	6
6	A New Assessment of the Performance of Low-noise Organic Photodetectors. , 2021, , .		0
7	Extraction of intrinsic contact resistance in organic thin-film transistors with single channel length and high capacitance density. Applied Physics Letters, 2021, 119, 263301.	1.5	1
8	Skin-like low-noise elastomeric organic photodiodes. Science Advances, 2021, 7, eabj6565.	4.7	30
9	Organic Thin-Film Transistors with a Bottom Bilayer Gate Dielectric Having a Low Operating Voltage and High Operational Stability. ACS Applied Electronic Materials, 2020, 2, 2813-2818.	2.0	15
10	Thermally Activated Delayed Fluorescence Sensitization for Highly Efficient Blue Fluorescent Emitters. Advanced Functional Materials, 2020, 30, 2005898.	7.8	25
11	Large-area low-noise flexible organic photodiodes for detecting faint visible light. Science, 2020, 370, 698-701.	6.0	235
12	Effects of particle inclusions on cracking in ultrathin barrier films. Thin Solid Films, 2020, 714, 138387.	0.8	4
13	Mutual electrical doping in polymers. Nature Materials, 2020, 19, 702-704.	13.3	5
14	Impact of interface materials on side permeation in indirect encapsulation of organic electronics. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 033203.	0.9	2
15	OptoSense. , 2020, 4, 1-27.		15
16	In-Depth Spectroscopy and New Heights for Organic Solar Cells. Joule, 2019, 3, 2294-2296.	11.7	0
17	On the Characterization and Modeling of the Current Characteristics of Organic Photodiodes. , 2019, , .		0
18	Morphology of Organic Semiconductors Electrically Doped from Solution Using Phosphomolybdic Acid. Chemistry of Materials, 2019, 31, 6677-6683.	3.2	4

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19	Optimizing Crack Onset Strain for Silicon Nitride/Fluoropolymer Nanolaminate Barrier Films. ACS Applied Nano Materials, 2019, 2, 2525-2532.	2.4	16
20	Host-Free Yellow-Green Organic Light-Emitting Diodes with External Quantum Efficiency over 20% Based on a Compound Exhibiting Thermally Activated Delayed Fluorescence. ACS Applied Materials & Interfaces, 2019, 11, 12693-12698.	4.0	24
21	Balancing aging mechanisms in organic field-effect transistors. , 2019, , .		0
22	Measurements of the field-effect electron mobility of the acceptor ITIC. Organic Electronics, 2018, 58, 290-293.	1.4	16
23	Stable organic thin-film transistors. Science Advances, 2018, 4, eaao1705.	4.7	107
24	Langmuir-Blodgett Thin Films of Diketopyrrolopyrrole-Based Amphiphiles. ACS Applied Materials & Interfaces, 2018, 10, 11995-12004.	4.0	17
25	Control of Singlet Emission Energy in a Diphenyloxadiazaole Containing Fluorophore Leading To Thermally Activated Delayed Fluorescence. ACS Omega, 2018, 3, 14918-14923.	1.6	5
26	Effect of the Number and Substitution Pattern of Carbazole Donors on the Singlet and Triplet State Energies in a Series of Carbazole-Oxadiazole Derivatives Exhibiting Thermally Activated Delayed Fluorescence. Chemistry of Materials, 2018, 30, 6389-6399.	3.2	17
27	Stable solvent for solution-based electrical doping of semiconducting polymer films and its application to organic solar cells. Energy and Environmental Science, 2018, 11, 2216-2224.	15.6	32
28	High performance blue-emitting organic light-emitting diodes from thermally activated delayed fluorescence: A guest/host ratio study. Journal of Applied Physics, 2018, 124, .	1.1	25
29	Near room-temperature direct encapsulation of organic photovoltaics by plasma-based deposition techniques. Journal Physics D: Applied Physics, 2017, 50, 024003.	1.3	12
30	Flexible large-area organic tandem solar cells with high defect tolerance and device yield. Journal of Materials Chemistry A, 2017, 5, 3186-3192.	5.2	51
31	Reduction of the Work Function of Gold by N-Heterocyclic Carbenes. Chemistry of Materials, 2017, 29, 3403-3411.	3.2	76
32	Solution-based electrical doping of semiconducting polymer films over a limited depth. Nature Materials, 2017, 16, 474-480.	13.3	121
33	Top-gate organic field-effect transistors fabricated on paper with high operational stability. Organic Electronics, 2017, 41, 340-344.	1.4	35
34	Experimental investigation of defect-assisted and intrinsic water vapor permeation through ultrabARRIER films. Review of Scientific Instruments, 2016, 87, 033902.	0.6	13
35	A Study on Reducing Contact Resistance in Solution-Processed Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2016, 8, 24744-24752.	4.0	77
36	ORGANIC PHOTOVOLTAICS: PHYSICAL CONCEPTS BEHIND DEVICE OPERATION. Materials and Energy, 2016, , 115-157.	2.5	1

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37	Self-forming electrode modification in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8297-8303.	2.7	14
38	Efficient Colorful Perovskite Solar Cells Using a Top Polymer Electrode Simultaneously as Spectrally Selective Antireflection Coating. <i>Nano Letters</i> , 2016, 16, 7829-7835.	4.5	123
39	Recent advances in the science and engineering of organic light-emitting diodes (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
40	Organic Field-Effect Transistors with a Bilayer Gate Dielectric Comprising an Oxide Nanolaminate Grown by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29872-29876.	4.0	23
41	Flexible all-solution-processed all-plastic multijunction solar cells for powering electronic devices. <i>Materials Horizons</i> , 2016, 3, 452-459.	6.4	73
42	Simultaneous cross-linking and p-doping of a polymeric semiconductor film by immersion into a phosphomolybdic acid solution for use in organic solar cells. <i>Chemical Communications</i> , 2016, 52, 3825-3827.	2.2	17
43	Engineering the mechanical properties of ultrabARRIER films grown by atomic layer deposition for the encapsulation of printed electronics. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	42
44	Self-(Un)rolling Biopolymer Microstructures: Rings, Tubules, and Helical Tubules from the Same Material. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8490-8493.	7.2	24
45	Bilayer Structure with Ultrahigh Energy/Power Density Using Hybrid Sol-Gel Dielectric and Charge-Blocking Monolayer. <i>Advanced Energy Materials</i> , 2015, 5, 1500767.	10.2	33
46	ITO-free large-area flexible organic solar cells with an embedded metal grid. <i>Organic Electronics</i> , 2015, 17, 349-354.	1.4	52
47	Stable Low-Voltage Operation Top-Gate Organic Field-Effect Transistors on Cellulose Nanocrystal Substrates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4804-4808.	4.0	55
48	Organometallic Dimers: Application to Work-Function Reduction of Conducting Oxides. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4320-4326.	4.0	25
49	Organic light-emitting diodes on shape memory polymer substrates for wearable electronics. <i>Organic Electronics</i> , 2015, 25, 151-155.	1.4	38
50	Molecular Engineering of Nonhalogenated Solution-Processable Bithiazole-Based Electron-Transport Polymeric Semiconductors. <i>Chemistry of Materials</i> , 2015, 27, 2928-2937.	3.2	79
51	Next generation organic light-emitting materials and devices (Presentation Recording). , 2015, , .		0
52	Top-gate organic field-effect transistors fabricated on shape-memory polymer substrates. , 2015, , .		2
53	Highly efficient Organic Light-Emitting Diodes from thermally activated delayed fluorescence using a sulfone-carbazole host material. <i>Organic Electronics</i> , 2015, 16, 109-112.	1.4	58
54	Efficient organic light-emitting diodes fabricated on cellulose nanocrystal substrates. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	32

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55	Organic field-effect transistor circuits using atomic layer deposited gate dielectrics patterned by reverse stamping. <i>Organic Electronics</i> , 2014, 15, 3780-3786.	1.4	5
56	Organic field-effect transistor circuits with electrode interconnections using reverse stamping. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
57	Inverted Tandem Polymer Solar Cells with Polyethylenimine-Modified MoO ₃ /Al ₂ O ₃ :ZnO Nanolaminate as the Charge Recombination Layers. <i>Advanced Energy Materials</i> , 2014, 4, 1400048.	10.2	21
58	Systematic Reliability Study of Top-Gate p- and n-Channel Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3378-3386.	4.0	45
59	A Vertically Integrated Solar-Powered Electrochromic Window for Energy Efficient Buildings. <i>Advanced Materials</i> , 2014, 26, 4895-4900.	11.1	134
60	Stable Organic Field-Effect Transistors for Continuous and Nondestructive Sensing of Chemical and Biologically Relevant Molecules in Aqueous Environment. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1616-1622.	4.0	38
61	Enhanced Charge-Carrier Injection and Collection Via Lamination of Doped Polymer Layers p-Doped with a Solution-Processible Molybdenum Complex. <i>Advanced Functional Materials</i> , 2014, 24, 2197-2204.	7.8	77
62	Pyrrole[3,2-d:4,5-d']bisthiazole-bridged bis(naphthalene diimide)s as electron-transport materials. <i>Journal of Materials Chemistry C</i> , 2014, 2, 124-131.	2.7	28
63	All-plastic solar cells with a high photovoltaic dynamic range. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3492.	5.2	97
64	Efficient recyclable organic solar cells on cellulose nanocrystal substrates with a conducting polymer top electrode deposited by film-transfer lamination. <i>Organic Electronics</i> , 2014, 15, 661-666.	1.4	108
65	Defect-Driven Interfacial Electronic Structures at an Organic/Metal-Oxide Semiconductor Heterojunction. <i>Advanced Materials</i> , 2014, 26, 4711-4716.	11.1	46
66	Phosphorescent light-emitting diodes using triscarbazole/bis(oxadiazole) hosts: comparison of homopolymer blends and random and block copolymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6743.	2.7	11
67	Tetracyano isoidigo small molecules and their use in n-channel organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19345-19350.	1.3	17
68	Organic Photovoltaic Cells with Stable Top Metal Electrodes Modified with Polyethylenimine. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6202-6207.	4.0	39
69	Inverted organic solar cells with polymer-modified fluorine-doped tin oxide as the electron-collecting electrode. <i>Thin Solid Films</i> , 2014, 554, 54-57.	0.8	11
70	Stacked inverted top-emitting green electrophosphorescent organic light-emitting diodes on glass and flexible glass substrates. <i>Organic Electronics</i> , 2013, 14, 2418-2423.	1.4	29
71	2-Bromo perylene diimide: synthesis using C-H activation and use in the synthesis of bis(perylene) Tj ETQq1 1 0.784314 rgBT /Overbo	2.7	834
72	Polymer solar cells with NiO hole-collecting interlayers processed by atomic layer deposition. <i>Organic Electronics</i> , 2013, 14, 2802-2808.	1.4	40

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73	Efficient blue-emitting electrophosphorescent organic light-emitting diodes using 2-(3,5-di(carbazol-9-yl)phenyl)-5-phenyl-1,3,4-oxadiazole as an ambipolar host. <i>RSC Advances</i> , 2013, 3, 23514.	1.7	9
74	Indium tin oxide modified by titanium dioxide nanoparticles dispersed in poly(N-vinylpyrrolidone) for use as an electron-collecting layer in organic solar cells with an inverted structure. <i>Journal of Materials Research</i> , 2013, 28, 535-540.	1.2	4
75	Crosslinking Using Rapid Thermal Processing for the Fabrication of Efficient Solution-Processed Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2013, 25, 1739-1744.	11.1	66
76	Benzo[1,2-b:6,5-b'€²]dithiophene(dithiazole)-4,5-dione derivatives: synthesis, electronic properties, crystal packing and charge transport. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1467.	2.7	23
77	High-performance inverted top-emitting green electrophosphorescent organic light-emitting diodes with a modified top Ag anode. <i>Organic Electronics</i> , 2013, 14, 1271-1275.	1.4	26
78	Recyclable organic solar cells on cellulose nanocrystal substrates. <i>Scientific Reports</i> , 2013, 3, 1536.	1.6	270
79	Nonlinear refraction measurements of thin films by the dual-arm Z-scan method. , 2013, , .		1
80	Ultrafast nonlinear mirrors with broad spectral and angular bandwidths in the visible spectral range. <i>Optics Express</i> , 2013, 21, 3573.	1.7	7
81	Stacked inverted top-emitting white organic light-emitting diodes composed of orange and blue light-emitting units. <i>Applied Physics Letters</i> , 2013, 103, 193303.	1.5	6
82	Reduction of contact resistance by selective contact doping in fullerene n-channel organic field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	51
83	Bis(naphthalene diimide) derivatives with mono- and dicarbonyl-fused tricyclic heterocyclic bridges as electron-transport materials. <i>Journal of Organic Semiconductors</i> , 2013, 1, 7-15.	1.2	8
84	Noble metal nonlinear optical mirrors with adjustable spectral and angular bandwidths for all-optical controls at visible wavelengths. , 2013, , .		0
85	Nonlinear Characterization of Thin Films by the Dual-Arm Z-scan Method. , 2013, , .		0
86	Polyvinylpyrrolidone-modified indium tin oxide as an electron-collecting electrode for inverted polymer solar cells. <i>Applied Physics Letters</i> , 2012, 101, 073303.	1.5	26
87	Linear and nonlinear optical properties of Ag/Au bilayer thin films. <i>Optics Express</i> , 2012, 20, 8629.	1.7	21
88	Highly efficient inverted top-emitting green phosphorescent organic light-emitting diodes on glass and flexible substrates. <i>Applied Physics Letters</i> , 2012, 101, 023304.	1.5	25
89	Recent advances in printable OLED materials and devices. , 2012, , .		0
90	Studies of the optimization of recombination layers for inverted tandem polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 51-55.	3.0	34

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91	Inverted top-emitting blue electrophosphorescent organic light-emitting diodes with high current efficacy. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	19
92	Easily Reducible Materials from the Reactions of Diselenopheno[3,2- <i>b</i> :2,3-d]pyrrole and Dithieno[3,2- <i>b</i> :2,3-d]pyrrole with Tetracyanoethylene. <i>Journal of Organic Chemistry</i> , 2012, 77, 10931-10937.	1.7	13
93	Polynorbornenes with pendant perylene diimides for organic electronic applications. <i>Polymer Chemistry</i> , 2012, 3, 2996.	1.9	22
94	Passivation of trap states in unpurified and purified C60 and the influence on organic field-effect transistor performance. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	65
95	Zinc Oxide as a Model Transparent Conducting Oxide: A Theoretical and Experimental Study of the Impact of Hydroxylation, Vacancies, Interstitials, and Extrinsic Doping on the Electronic Properties of the Polar ZnO (0002) Surface. <i>Chemistry of Materials</i> , 2012, 24, 3044-3055.	3.2	110
96	Stannyl Derivatives of Naphthalene Diimides and Their Use in Oligomer Synthesis. <i>Organic Letters</i> , 2012, 14, 918-921.	2.4	54
97	The Modification of Indium Tin Oxide with Phosphonic Acids: Mechanism of Binding, Tuning of Surface Properties, and Potential for Use in Organic Electronic Applications. <i>Accounts of Chemical Research</i> , 2012, 45, 337-346.	7.6	293
98	Direct correlation between work function of indium-tin-oxide electrodes and solar cell performance influenced by ultraviolet irradiation and air exposure. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12014.	1.3	98
99	High performance polymeric charge recombination layer for organic tandem solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 9827.	15.6	183
100	Solvent and polymer matrix effects on TIPS-pentacene/polymer blend organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 5531.	6.7	109
101	A Universal Method to Produce Low-Work Function Electrodes for Organic Electronics. <i>Science</i> , 2012, 336, 327-332.	6.0	1,878
102	Oriented Growth of Al ₂ O ₃ :ZnO Nanolaminates for Use as Electron-Selective Electrodes in Inverted Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2012, 22, 1531-1538.	7.8	47
103	Stable Solution-Processed Molecular n-Channel Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2012, 24, 4445-4450.	11.1	67
104	A correlation study between barrier film performance and shelf lifetime of encapsulated organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 140-146.	3.0	81
105	Performance comparison of pentacene organic field-effect transistors with SiO ₂ modified with octyltrichlorosilane or octadecyltrichlorosilane. <i>Organic Electronics</i> , 2012, 13, 18-22.	1.4	41
106	Complementary-like inverters based on an ambipolar solution-processed molecular bis(naphthalene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.4	27
107	Synthesis and characterization of naphthalene diimide/diethynylbenzene copolymers. <i>Polymer</i> , 2012, 53, 1072-1078.	1.8	24
108	Top-gate hybrid complementary inverters using pentacene and amorphous InGaZnO thin-film transistors with high operational stability. <i>AIP Advances</i> , 2012, 2, 012134.	0.6	2

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109	Metal-oxide complementary inverters with a vertical geometry fabricated on flexible substrates. Applied Physics Letters, 2011, 99, .	1.5	39
110	Benzothiadiazole-Dithienopyrrole Donor-acceptor-Donor and Acceptor-Donor-acceptor Triads: Synthesis and Optical, Electrochemical, and Charge-Transport Properties. Journal of Physical Chemistry C, 2011, 115, 23149-23163.	1.5	90
111	Self-Assembled Amphiphilic Diketopyrrolopyrrole-Based Oligothiophenes for Field-Effect Transistors and Solar Cells. Chemistry of Materials, 2011, 23, 2285-2288.	3.2	80
112	Dithienopyrrole-quinoxaline/pyridopyrazine donor-acceptor polymers: synthesis and electrochemical, optical, charge-transport, and photovoltaic properties. Journal of Materials Chemistry, 2011, 21, 4971.	6.7	54
113	Roles of thermally-induced vertical phase segregation and crystallization on the photovoltaic performance of bulk heterojunction inverted polymer solar cells. Energy and Environmental Science, 2011, 4, 3456.	15.6	34
114	Polymers with Carbazole-Oxadiazole Side Chains as Ambipolar Hosts for Phosphorescent Light-Emitting Diodes. Chemistry of Materials, 2011, 23, 4002-4015.	3.2	67
115	Polydimethylsiloxane as a Macromolecular Additive for Enhanced Performance of Molecular Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 1210-1215.	4.0	108
116	ITO-free large-area organic light-emitting diodes with an integrated metal grid. Optics Express, 2011, 19, A793.	1.7	40
117	The Ultrafast Nonlinear Optical Properties of Induced Transmission Filters. , 2011, , .		1
118	Solution-Processed Molecular Bis(Naphthalene Diimide) Derivatives with High Electron Mobility. Chemistry of Materials, 2011, 23, 3408-3410.	3.2	106
119	Precise determination of optical properties of pentacene thin films grown on various substrates: Gauss-Lorentz model with effective medium approach. Applied Physics B: Lasers and Optics, 2011, 104, 139-144.	1.1	5
120	Top-Gate Organic Field-Effect Transistors with High Environmental and Operational Stability. Advanced Materials, 2011, 23, 1293-1298.	11.1	158
121	Efficient green OLED devices with an emissive layer comprised of phosphor-doped carbazole/bis-oxadiazole side-chain polymer blends. Organic Electronics, 2011, 12, 492-496.	1.4	43
122	High-efficiency blue-green electrophosphorescent light-emitting devices using a bis-sulfone as host in the emitting layer. Organic Electronics, 2011, 12, 1314-1318.	1.4	28
123	Vertically stacked hybrid organic-inorganic complementary inverters with low operating voltage on flexible substrates. Organic Electronics, 2011, 12, 45-50.	1.4	26
124	Optimization of a polymer top electrode for inverted semitransparent organic solar cells. Organic Electronics, 2011, 12, 827-831.	1.4	59
125	Flexible and stable solution-processed organic field-effect transistors. Organic Electronics, 2011, 12, 1108-1113.	1.4	80
126	Vertically stacked complementary inverters with solution-processed organic semiconductors. Organic Electronics, 2011, 12, 1132-1136.	1.4	35

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127	Enhanced carrier mobility and electrical stability of n-channel polymer thin film transistors by use of low-k dielectric buffer layer. Applied Physics Letters, 2011, 99, .	1.5	30
128	The future of plastic optoelectronics. , 2011, , .		0
129	Efficient green and blue electrophosphorescent light-emitting diodes using a combination of solution- and vacuum-processed materials. , 2011, , .		0
130	The nonlinear optical response of transparent silver/gold multi-metal layers. , 2010, , .		0
131	A comprehensive study of the contributions to the nonlinear optical properties of thin Ag films. , 2010, , .		0
132	Flexible hybrid complementary inverters with high gain and balanced noise margins using pentacene and amorphous InGaZnO thin-film transistors. Organic Electronics, 2010, 11, 1074-1078.	1.4	39
133	Pentacene organic field-effect transistors with doped electrode-semiconductor contacts. Organic Electronics, 2010, 11, 860-863.	1.4	65
134	Ambipolar thin-film transistors with a co-planar channel geometry. Organic Electronics, 2010, 11, 1351-1356.	1.4	4
135	A comprehensive analysis of the contributions to the nonlinear optical properties of thin Ag films. Journal of Applied Physics, 2010, 107, .	1.1	33
136	Nonlinear optical properties of induced transmission filters. Optics Express, 2010, 18, 19101.	1.7	11
137	Optics in Energy: the power of optical solutions. Optics Express, 2010, 18, A1.	1.7	0
138	ITO-free large-area organic solar cells. Optics Express, 2010, 18, A458.	1.7	30
139	Focus Issue: Thin-Film Photovoltaic Materials and Devices. Optics Express, 2010, 18, A487.	1.7	0
140	Inverted polymer solar cells with amorphous indium zinc oxide as the electron-collecting electrode. Optics Express, 2010, 18, A506.	1.7	19
141	Dithienopyrrole-based donor-acceptor copolymers: low band-gap materials for charge transport, photovoltaics and electrochromism. Journal of Materials Chemistry, 2010, 20, 123-134.	6.7	154
142	Electrical and Optical Properties of ZnO Processed by Atomic Layer Deposition in Inverted Polymer Solar Cells. Journal of Physical Chemistry C, 2010, 114, 20713-20718.	1.5	116
143	Indium tin oxide-free and metal-free semitransparent organic solar cells. Applied Physics Letters, 2010, 97, .	1.5	135
144	Inverted organic solar cells with ITO electrodes modified with an ultrathin Al ₂ O ₃ buffer layer deposited by atomic layer deposition. Journal of Materials Chemistry, 2010, 20, 6189.	6.7	93

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145	An organic complementary differential amplifier for flexible AMOLED applications. , 2010, , .		16
146	Nonlinear Optical Properties of Layered Multi-Metal Nanostructures. , 2010, , .		0
147	Organic semiconductors for photovoltaic and light-emitting devices: status and promise. , 2010, , .		0
148	Polymeric Ambipolar Hosts for Large Area Phosphorescent Light-Emitting Diodes. , 2010, , .		0
149	Low-voltage InGaZnO thin-film transistors with Al ₂ O ₃ gate insulator grown by atomic layer deposition. Applied Physics Letters, 2009, 94, .	1.5	128
150	Effect of phosphonic acid surface modifiers on the work function of indium tin oxide and on the charge injection barrier into organic single-layer diodes. Journal of Applied Physics, 2009, 105, .	1.1	32
151	A hybrid encapsulation method for organic electronics. Applied Physics Letters, 2009, 94, .	1.5	83
152	Study of electrical performance and stability of solution-processed n-channel organic field-effect transistors. Journal of Applied Physics, 2009, 106, .	1.1	44
153	Low-voltage solution-processed n-channel organic field-effect transistors with high-k HfO ₂ gate dielectrics grown by atomic layer deposition. Applied Physics Letters, 2009, 95, 223303.	1.5	36
154	Low-voltage pentacene organic field-effect transistors with high- ϵ HfO ₂ gate dielectrics and high stability under bias stress. Applied Physics Letters, 2009, 95, .	1.5	52
155	The nonlinear optical response of transparent metal-dielectric multilayer structures. , 2009, , .		0
156	Tailoring the work function of indium tin oxide electrodes in electrophosphorescent organic light-emitting diodes. Journal of Applied Physics, 2009, 105, 084507.	1.1	70
157	Area-scaling of Organic Solar Cells and Integrated Modules. Materials Research Society Symposia Proceedings, 2009, 1212, 1.	0.1	1
158	SPICE Optimization of Organic FET Models Using Charge Transport Elements. IEEE Transactions on Electron Devices, 2009, 56, 38-42.	1.6	16
159	Pentacene organic field-effect transistors with polymeric dielectric interfaces: Performance and stability. Organic Electronics, 2009, 10, 1133-1140.	1.4	104
160	Optical properties of one-dimensional metal-dielectric photonic band-gap structures with low index dielectrics. Thin Solid Films, 2009, 517, 2736-2741.	0.8	13
161	Synthesis, electron mobility, and electroluminescence of a polynorbornene-supported silole. Polymer, 2009, 50, 397-403.	1.8	15
162	Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. Journal of Materials Chemistry, 2009, 19, 5794.	6.7	165

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163	Effects of surface modification of indium tin oxide electrodes on the performance of molecular multilayer organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2009, 19, 5298.	6.7	50
164	Effect of Au deposition rate on the performance of top-contact pentacene organic field-effect transistors. <i>Synthetic Metals</i> , 2009, 159, 2371-2374.	2.1	9
165	Variable-ratio power splitters using computer-generated planar holograms on multimode interference couplers. <i>Optics Letters</i> , 2009, 34, 512.	1.7	17
166	Origin of the Open-Circuit Voltage in Organic Solar Cells. <i>Optics and Photonics News</i> , 2009, 20, 33.	0.4	0
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