Jang-Joo Kim

List of Publications by Year
in descending order

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363 papers	16,752 citations	11608 70 h-index	22764 112 g-index
372 all docs	372 docs citations	372 times ranked	10733 citing authors

#	Article	IF	Citations
1	Organic Lightâ€Emitting Diodes with 30% External Quantum Efficiency Based on a Horizontally Oriented Emitter. Advanced Functional Materials, 2013, 23, 3896-3900.	7.8	495
2	Exciplexâ€Forming Coâ€host for Organic Lightâ€Emitting Diodes with Ultimate Efficiency. Advanced Functional Materials, 2013, 23, 4914-4920.	7.8	421
3	A Fluorescent Organic Lightâ€Emitting Diode with 30% External Quantum Efficiency. Advanced Materials, 2014, 26, 5684-5688.	11.1	397
4	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. Nature Communications, 2014, 5, 4769.	5.8	337
5	Highly Efficient Organic Lightâ€Emitting Diodes with Phosphorescent Emitters Having High Quantum Yield and Horizontal Orientation of Transition Dipole Moments. Advanced Materials, 2014, 26, 3844-3847.	11.1	316
6	An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage. Advanced Functional Materials, 2015, 25, 361-366.	7.8	267
7	Origin and Control of Orientation of Phosphorescent and TADF Dyes for Highâ€Efficiency OLEDs. Advanced Materials, 2018, 30, e1705600.	11.1	264
8	Polymer phosphorescent light-emitting devices doped with tris(2-phenylpyridine) iridium as a triplet emitter. Applied Physics Letters, 2000, 77, 2280-2282.	1.5	251
9	Deep-Blue Phosphorescence from Perfluoro Carbonyl-Substituted Iridium Complexes. Journal of the American Chemical Society, 2013, 135, 14321-14328.	6.6	243
10	Blue Phosphorescent Organic Lightâ€Emitting Diodes Using an Exciplex Forming Coâ€host with the External Quantum Efficiency of Theoretical Limit. Advanced Materials, 2014, 26, 4730-4734.	11.1	241
11	Skyâ€Blue Phosphorescent OLEDs with 34.1% External Quantum Efficiency Using a Low Refractive Index Electron Transporting Layer. Advanced Materials, 2016, 28, 4920-4925.	11.1	238
12	Energy transfer and device performance in phosphorescent dye doped polymer light emitting diodes. Journal of Chemical Physics, 2003, 118, 2853.	1.2	218
13	Crystal Organic Lightâ€Emitting Diodes with Perfectly Oriented Nonâ€Doped Ptâ€Based Emitting Layer. Advanced Materials, 2016, 28, 2526-2532.	11.1	206
14	Low roll-off of efficiency at high current density in phosphorescent organic light emitting diodes. Applied Physics Letters, 2007, 90, 223508.	1.5	204
15	Thermally Activated Delayed Fluorescence from Azasiline Based Intramolecular Charge-Transfer Emitter (DTPDDA) and a Highly Efficient Blue Light Emitting Diode. Chemistry of Materials, 2015, 27, 6675-6681.	3.2	198
16	Low Rollâ€Off and High Efficiency Orange Organic Light Emitting Diodes with Controlled Coâ€Doping of Green and Red Phosphorescent Dopants in an Exciplex Forming Coâ€Host. Advanced Functional Materials, 2013, 23, 4105-4110.	7.8	196
17	Excitation Energy Transfer in Organic Materials: From Fundamentals to Optoelectronic Devices. Macromolecular Rapid Communications, 2009, 30, 1203-1231.	2.0	177
18	Highâ€Efficiency Deepâ€Blue Lightâ€Emitting Diodes Based on Phenylquinoline/Carbazoleâ€Based Compounds. Advanced Functional Materials, 2008, 18, 3922-3930.	7.8	173

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19	Highly Efficient Deepâ€Blue OLEDs using a TADF Emitter with a Narrow Emission Spectrum and High Horizontal Emitting Dipole Ratio. Advanced Materials, 2020, 32, e2004083.	11.1	170
20	Highly Enhanced Light Extraction from Surface Plasmonic Loss Minimized Organic Lightâ€Emitting Diodes. Advanced Materials, 2013, 25, 3571-3577.	11.1	166
21	Efficient, Color Stable White Organic Lightâ€Emitting Diode Based on High Energy Level Yellowishâ€Green Dopants. Advanced Materials, 2008, 20, 1957-1961.	11.1	162
22	White Luminescence from Polymer Thin Films Containing Excited-State Intramolecular Proton-Transfer Dyes. Advanced Materials, 2005, 17, 2077-2082.	11.1	161
23	Effect of Substitution of Methyl Groups on the Luminescence Performance of IrIII Complexes: Preparation, Structures, Electrochemistry, Photophysical Properties and Their Applications in Organic Light-Emitting Diodes (OLEDs). European Journal of Inorganic Chemistry, 2004, 2004, 3415-3423.	1.0	158
24	Langevin and Trapâ€Assisted Recombination in Phosphorescent Organic Light Emitting Diodes. Advanced Functional Materials, 2014, 24, 4681-4688.	7.8	153
25	Highâ€Efficiency Orange and Tandem White Organic Lightâ€Emitting Diodes Using Phosphorescent Dyes with Horizontally Oriented Emitting Dipoles. Advanced Materials, 2014, 26, 5864-5868.	11.1	147
26	Color Tuning of Cyclometalated Iridium Complexes through Modification of Phenylpyrazole Derivatives and Ancillary Ligand Based on ab Initio Calculations. Organometallics, 2005, 24, 1578-1585.	1.1	138
27	Low driving voltage and high stability organic light-emitting diodes with rhenium oxide-doped hole transporting layer. Applied Physics Letters, 2007, 91, 011113.	1.5	138
28	Combined Interâ€•and Intramolecular Chargeâ€Transfer Processes for Highly Efficient Fluorescent Organic Lightâ€Emitting Diodes with Reduced Triplet Exciton Quenching. Advanced Materials, 2017, 29, 1606448.	11.1	131
29	Boosting Triplet Harvest by Reducing Nonradiative Transition of Exciplex toward Fluorescent Organic Light-Emitting Diodes with 100% Internal Quantum Efficiency. Chemistry of Materials, 2016, 28, 1936-1941.	3.2	129
30	Effect of Molecular Orientation of Epitaxially Grown Platinum(II) Octaethyl Porphyrin Films on the Performance of Field-Effect Transistors. Advanced Materials, 2003, 15, 699-702.	11.1	128
31	Extremely deep blue and highly efficient non-doped organic light emitting diodes using an asymmetric anthracene derivative with a xylene unit. Chemical Communications, 2013, 49, 4664.	2.2	128
32	Exciplex-Forming Co-Host-Based Red Phosphorescent Organic Light-Emitting Diodes with Long Operational Stability and High Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 3277-3281.	4.0	124
33	Iridium Complexes with Cyclometalated 2â€Cycloalkenylâ€Pyridine Ligands as Highly Efficient Emitters for Organic Lightâ€Emitting Diodes. Advanced Materials, 2008, 20, 2003-2007.	11.1	122
34	Pyrene based materials for exceptionally deep blue OLEDs. Journal of Materials Chemistry C, 2014, 2, 9083-9086.	2.7	122
35	Fluorinated Poly(arylene ether sulfide) for Polymeric Optical Waveguide Devices. Macromolecules, 2001, 34, 7817-7821.	2.2	119
36	Fully vacuumâ€“processed perovskite solar cells with high open circuit voltage using MoO3/NPB as hole extraction layers. Organic Electronics, 2015, 17, 102-106.	1.4	118

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37	Highly Efficient Light-Harvesting System Based on a Phosphorescent Acceptor Coupled with Dendrimer Donors via Singletâ^'Singlet and Tripletâ^'Triplet Energy Transfer. Chemistry of Materials, 2007, 19, 3673-3680.	3.2	109
38	Outcoupling efficiency of organic light emitting diodes and the effect of ITO thickness. Organic Electronics, 2010, 11, 1010-1015.	1.4	109
39	Design of Heteroleptic Ir Complexes with Horizontal Emitting Dipoles for Highly Efficient Organic Light-Emitting Diodes with an External Quantum Efficiency of 38%. Chemistry of Materials, 2016, 28, 7505-7510.	3.2	109
40	Efficient triplet harvesting by fluorescent molecules through exciplexes for high efficiency organic light-emitting diodes. Applied Physics Letters, 2013, 102, .	1.5	106
41	High-Performance Flexible Organic Light-Emitting Diodes Using Amorphous Indium Zinc Oxide Anode. Electrochemical and Solid-State Letters, 2007, 10, J75.	2.2	105
42	Controlling Horizontal Dipole Orientation and Emission Spectrum of Ir Complexes by Chemical Design of Ancillary Ligands for Efficient Deepâ€Blue Organic Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1808102.	11.1	105
43	Highâ€Efficiency Sky Blue to Ultradeep Blue Thermally Activated Delayed Fluorescent Diodes Based on Orthoâ€Carbazoleâ€Appended Triarylboron Emitters: Above 32% External Quantum Efficiency in Blue Devices. Advanced Optical Materials, 2018, 6, 1800385.	3.6	104
44	The Mechanism of Charge Generation in Chargeâ€Generation Units Composed of pâ€Doped Holeâ€Transporting Layer/HATCN/nâ€Doped Electronâ€Transporting Layers. Advanced Functional Materials, 2012, 22, 855-860.	7.8	101
45	Substrate thermal conductivity effect on heat dissipation and lifetime improvement of organic light-emitting diodes. Applied Physics Letters, 2009, 94, .	1.5	97
46	Extremely Flexible Transparent Conducting Electrodes for Organic Devices. Advanced Energy Materials, 2014, 4, 1300474.	10.2	97
47	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. Nature Communications, 2018, 9, 3207.	5.8	96
48	Photodegradation of poly(pâ€‰â€â€‰phenylenevinylene) by laser light at the peak wavelength of electroluminescence. Applied Physics Letters, 1995, 67, 3420-3422.	1.5	94
49	Highly Improved Quantum Efficiency in Blend Polymer LEDs. Macromolecules, 1996, 29, 165-169.	2.2	94
50	Synthesis and characterization of novel polyimides containing fluorine and phosphine oxide moieties. Polymer, 2001, 42, 6019-6030.	1.8	92
51	Highly efficient deep-blue phosphorescence from heptafluoropropyl-substituted iridium complexes. Chemical Communications, 2015, 51, 58-61.	2.2	91
52	Polymer-Layered Silicate Nanocomposite Light-Emitting Devices. Advanced Materials, 2001, 13, 211-213.	11.1	90
53	Effectiveness of p-dopants in an organic hole transporting material. Applied Physics Letters, 2009, 94, .	1.5	88
54	Highly Efficient Sky-Blue Fluorescent Organic Light Emitting Diode Based on Mixed Cohost System for Thermally Activated Delayed Fluorescence Emitter (2CzPN). ACS Applied Materials & Interfaces, 2016, 8, 9806-9810.	4.0	88

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55	Novel Bi-Nuclear Boron Complex with Pyrene Ligand: Red-Light Emitting as well as Electron Transporting Material in Organic Light-Emitting Diodes. Organic Letters, 2010, 12, 1272-1275.	2.4	87
56	In Situ Antibody Detection and Charge Discrimination Using Aqueous Stable Pentacene Transistor Biosensors. Journal of the American Chemical Society, 2011, 133, 2170-2176.	6.6	85
57	Enhanced Light Outâ€Coupling of OLEDs with Low Haze by Inserting Randomly Dispersed Nanopillar Arrays Formed by Lateral Phase Separation of Polymer Blends. Small, 2013, 9, 3858-3863.	5.2	85
58	Strategies for the Molecular Design of Donorâ€“Acceptor-type Fluorescent Emitters for Efficient Deep Blue Organic Light Emitting Diodes. Chemistry of Materials, 2018, 30, 857-863.	3.2	85
59	Polymer-Based Blue Electrophosphorescent Light-Emitting Diodes Using a Bisorthometalated Ir(III) Complex as the Triplet Emitter. Chemistry of Materials, 2004, 16, 4642-4646.	3.2	83
60	Deep-blue phosphorescent iridium complexes with picolinic acid N-oxide as the ancillary ligand for high efficiency organic light-emitting diodes. Organic Electronics, 2010, 11, 564-572.	1.4	83
61	Silane- and triazine-containing hole and exciton blocking material for high-efficiency phosphorescent organic light emitting diodes. Journal of Materials Chemistry, 2007, 17, 3714.	6.7	81
62	Highly flexible, transparent, and low resistance indium zinc oxideâ€“Agâ€“indium zinc oxide multilayer anode on polyethylene terephthalate substrate for flexible organic light light-emitting diodes. Thin Solid Films, 2008, 516, 7881-7885.	0.8	80
63	Highly Efficient, Conventional, Fluorescent Organic Lightâ€Emitting Diodes with Extended Lifetime. Advanced Materials, 2017, 29, 1702159.	11.1	79
64	Highly efficient tandem p-i-n organic light-emitting diodes adopting a low temperature evaporated rhenium oxide interconnecting layer. Applied Physics Letters, 2008, 93, .	1.5	77
65	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. Chemistry of Materials, 2015, 27, 2767-2769.	3.2	77
66	Ultraviolet nanoimprinted polymer nanostructure for organic light emitting diode application. Applied Physics Letters, 2008, 92, 223307.	1.5	76
67	Corrugated organic light emitting diodes for enhanced light extraction. Organic Electronics, 2010, 11, 711-716.	1.4	76
68	Simple and Low Cost Fabrication of Thermally Stable Polymeric Multimode Waveguides using a UV-curable Epoxy. Japanese Journal of Applied Physics, 2003, 42, 1277-1279.	0.8	73
69	Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex. Advanced Optical Materials, 2015, 3, 895-899.	3.6	73
70	Photoinduced Supramolecular Chirality in Amorphous Azobenzene Polymer Films. Journal of the American Chemical Society, 2002, 124, 3504-3505.	6.6	72
71	External Quantum Efficiency Exceeding 24% with CIE_y Value of 0.08 using a Novel Carbeneâ€Based Iridium Complex in Deepâ€Blue Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e2002120.	11.1	72
72	A Deep Red Phosphorescent Ir(III) Complex for Use in Polymer Light-Emitting Diodes:Â Role of the Arylsilyl Substituents. Journal of Organic Chemistry, 2007, 72, 6241-6246.	1.7	70

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73	A high performance inverted organic light emitting diode using an electron transporting material with low energy barrier for electron injection. Organic Electronics, 2011, 12, 1763-1767.	1.4	70
74	Hole Injection/Transport Materials Derived from Heck and Solâˆ'Gel Chemistry for Application in Solution-Processed Organic Electronic Devices. Journal of the American Chemical Society, 2011, 133, 1375-1382.	6.6	69
75	Reduction of Collection Efficiency of Charge Carriers with Increasing Cell Size in Polymer Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2011, 21, 343-347.	7.8	69
76	Low-loss fluorinated poly(arylene ether sulfide) waveguides with high thermal stability. Journal of Lightwave Technology, 2001, 19, 872-875.	2.7	65
77	Novel binaphthyl-containing bi-nuclear boron complex with low concentration quenching effect for efficient organic light-emitting diodes. Chemical Communications, 2010, 46, 6512.	2.2	64
78	Energy transfer from exciplexes to dopants and its effect on efficiency of organic light-emitting diodes. Journal of Applied Physics, 2011, 110, 124519.	1.1	64
79	High performance top-emitting organic light-emitting diodes with copper iodide-doped hole injection layer. Organic Electronics, 2008, 9, 805-808.	1.4	63
80	A high performance transparent inverted organic light emitting diode with 1,4,5,8,9,11-hexaazatriphenylenehexacarbonitrile as an organic buffer layer. Journal of Materials Chemistry, 2012, 22, 15262.	6.7	63
81	Low-Temperature Organic (CYTOP) Passivation for Improvement of Electric Characteristics and Reliability in IGZO TFTs. IEEE Electron Device Letters, 2012, 33, 381-383.	2.2	63
82	Enhanced efficiency of dye-sensitized solar cells by UVâ€"O3 treatment of TiO2 layer. Current Applied Physics, 2009, 9, 404-408.	1.1	62
83	Phenazasiline/Spiroacridine Donor Combined with Methyl-Substituted Linkers for Efficient Deep Blue Thermally Activated Delayed Fluorescence Emitters. ACS Applied Materials & Interfaces, 2019, 11, 7199-7207.	4.0	61
84	A novel spiro-functionalized polyfluorene derivative with solubilizing side chains. Journal of Materials Chemistry, 2004, 14, 1342.	6.7	60
85	Synthesis and characterization of novel polyimides with 2,2-bis[4(4-aminophenoxy)phenyl]phthalein-3?,5?-bis(trifluoromethyl)anilide. Journal of Polymer Science Part A, 2003, 41, 3361-3374.	2.5	59
86	Polymeric wavelength filters fabricated using holographic surface relief gratings on azobenzene-containing polymer films. Applied Physics Letters, 2003, 82, 3823-3825.	1.5	59
87	Harnessing Triplet Excited States by Fluorescent Dopant Utilizing Codoped Phosphorescent Dopant in Exciplex Host for Efficient Fluorescent Organic Light Emitting Diodes. Advanced Optical Materials, 2017, 5, 1600749.	3.6	59
88	Dendritic Ir(iii) complexes functionalized with triphenylsilylphenyl groups: Synthesis, DFT calculation and comprehensive structure-property correlation. Journal of Materials Chemistry, 2009, 19, 8347.	6.7	58
89	Transparent Conducting Indium Zinc Tin Oxide Anode for Highly Efficient Phosphorescent Organic Light Emitting Diodes. Journal of the Electrochemical Society, 2008, 155, J1.	1.3	57
90	Effect of host organic semiconductors on electrical doping. Organic Electronics, 2010, 11, 486-489.	1.4	57

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91	An Exciplex Host for Deep-Blue Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 37883-37887.	4.0	56
92	Silicon-containing dendritic tris-cyclometalated Ir(iii) complex and its electrophosphorescence in a polymer host. Journal of Materials Chemistry, 2006, 16, 4706.	6.7	55
93	Enhancement of near-infrared absorption with high fill factor in lead phthalocyanine-based organic solar cells. Journal of Materials Chemistry, 2012, 22, 9077.	6.7	55
94	Polymer electrophosphorescent device: comparison of phosphorescent dye doped and coordinated systems. Optical Materials, 2003, 21, 119-123.	1.7	54
95	Effect of Doping Concentration on Microstructure of Conjugated Polymers and Characteristics in Nâ€Type Polymer Fieldâ€Effect Transistors. Advanced Functional Materials, 2015, 25, 758-767.	7.8	54
96	Unraveling the orientation of phosphors doped in organic semiconducting layers. Nature Communications, 2017, 8, 791.	5.8	53
97	Breaking the Efficiency Limit of Deepâ€Blue Fluorescent OLEDs Based on Anthracene Derivatives. Advanced Materials, 2022, 34, e2100161.	11.1	53
98	In situinvestigation of degradation in polymeric electroluminescent devices using time-resolved confocal laser scanning microscope. Applied Physics Letters, 1997, 70, 3470-3472.	1.5	52
99	The effect of Al electrodes on the nanostructure of poly(3-hexylthiophene): Fullerene solar cell blends during thermal annealing. Organic Electronics, 2009, 10, 1505-1510.	1.4	52
100	Controlling Emitting Dipole Orientation with Methyl Substituents on Main Ligand of Iridium Complexes for Highly Efficient Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2015, 3, 1191-1196.	3.6	52
101	Highâ€Quality White OLEDs with Comparable Efficiencies to LEDs. Advanced Optical Materials, 2018, 6, 1701349.	3.6	52
102	Synthesis and characterization of novel 3,6-di[3?,5?-bis(trifluoromethyl)phenyl]pyromellitic dianhydride for polyimide synthesis. Journal of Polymer Science Part A, 2002, 40, 4217-4227.	2.5	51
103	Luminescence from oriented emitting dipoles in a birefringent medium. Optics Express, 2015, 23, A279.	1.7	51
104	All-optical Machâ€“Zehnder modulator using a photochromic dye-doped polymer. Applied Physics Letters, 2002, 80, 1710-1712.	1.5	50
105	Mobility balance in the light-emitting layer governs the polaron accumulation and operational stability of organic light-emitting diodes. Applied Physics Letters, 2017, 111, .	1.5	50
106	Triplet Harvesting by a Fluorescent Emitter Using a Phosphorescent Sensitizer for Blue Organic-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 26-30.	4.0	50
107	A highly efficient wide-band-gap host material for blue electrophosphorescent light-emitting devices. Applied Physics Letters, 2007, 91, 233501.	1.5	48
108	Highly efficient non-doped deep blue fluorescent emitters with horizontal emitting dipoles using interconnecting units between chromophores. Chemical Communications, 2016, 52, 10956-10959.	2.2	48

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109	Highly efficient deep-blue fluorescence OLEDs with excellent charge balance based on phenanthro[9,10-d]oxazole-anthracene derivatives. Journal of Materials Chemistry C, 2020, 8, 11168-11176.	2.7	48
110	All-optical switch and modulator using photochromic dye doped polymer waveguides. Optical Materials, 2003, 21, 543-548.	1.7	47
111	Highly efficient orange organic light-emitting diodes using a novel iridium complex with imide group-containing ligands. Journal of Materials Chemistry, 2009, 19, 8824.	6.7	47
112	Formation of perfect ohmic contact at indium tin oxide/N,Nâ€²-di(naphthalene-1-yl)-N,Nâ€²-diphenyl-benzidine interface using ReO3. Scientific Reports, 2014, 4, 3902.	1.6	47
113	Transparent, Low Resistance, and Flexible Amorphous ZnO-Doped In[sub 2]O[sub 3] Anode Grown on a PES Substrate. Journal of the Electrochemical Society, 2007, 154, J81.	1.3	46
114	Real Time Investigation of the Interface between a P3HT:PCBM Layer and an Al Electrode during Thermal Annealing. Macromolecular Rapid Communications, 2009, 30, 1269-1273.	2.0	46
115	Charge Transport in Electrically Doped Amorphous Organic Semiconductors. Macromolecular Rapid Communications, 2015, 36, 984-1000.	2.0	46
116	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. Journal of Materials Chemistry C, 2017, 5, 1027-1032.	2.7	46
117	Interfacial doping for efficient charge injection in organic semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1399-1413.	0.8	45
118	Highly Efficient Deep Blue Phosphorescent OLEDs Based on Tetradentate Pt(II) Complexes Containing Adamantyl Spacer Groups. Advanced Functional Materials, 2021, 31, 2100967.	7.8	45
119	Origin of charge generation efficiency of metal oxide p-dopants in organic semiconductors. Organic Electronics, 2011, 12, 950-954.	1.4	44
120	Crystal Facet Engineering of TiO2 Nanostructures for Enhancing Photoelectrochemical Water Splitting with BiVO4 Nanodots. Nano-Micro Letters, 2022, 14, 48.	14.4	44
121	A host material containing tetraphenylsilane for phosphorescent OLEDs with high efficiency and operational stability. Organic Electronics, 2008, 9, 452-460.	1.4	42
122	Low-loss and thermally stable TE-mode selective polymer waveguide using photosensitive fluorinated polyimide. IEEE Photonics Technology Letters, 2002, 14, 1297-1299.	1.3	41
123	Enhancement of hole injection using ozone treated Ag nanodots dispersed on indium tin oxide anode for organic light emitting diodes. Applied Physics Letters, 2007, 90, 163516.	1.5	41
124	Air stable C60 based n-type organic field effect transistor using a perfluoropolymer insulator. Organic Electronics, 2008, 9, 481-486.	1.4	40
125	Rubidium-Carbonate-Doped 4,7-Diphenyl-1,10-phenanthroline Electron Transporting Layer for High-Efficiency p-i-n Organic Light Emitting Diodes. Electrochemical and Solid-State Letters, 2009, 12, J8.	2.2	40
126	Homogeneous dispersion of organic p-dopants in an organic semiconductor as an origin of high charge generation efficiency. Applied Physics Letters, 2011, 98, .	1.5	40

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127	Design Strategy of Anthracene-Based Fluorophores toward High-Efficiency Deep Blue Organic Light-Emitting Diodes Utilizing Tripletâ€“Triplet Fusion. ACS Applied Materials & Interfaces, 2020, 12, 15422-15429.	4.0	40
128	Photoconductivity of C₆₀ as an Origin of Biasâ€Dependent Photocurrent in Organic Photovoltaics. Advanced Functional Materials, 2012, 22, 3089-3094.	7.8	39
129	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. Organic Electronics, 2017, 42, 337-342.	1.4	39
130	Electronic Structure and Emission Process of Excited Charge Transfer States in Solids. Chemistry of Materials, 2018, 30, 5648-5654.	3.2	39
131	1 Ã— 2 all-optical switch using photochromic-doped waveguides. Electronics Letters, 2000, 36, 1641.	0.5	38
132	Fluorinated poly(arylene ether sulfone)s for polymeric optical waveguide devices. Polymer, 2003, 44, 4189-4195.	1.8	38
133	Organic field-effect transistors by a wet-transferring method. Applied Physics Letters, 2003, 83, 1243-1245.	1.5	38
134	Synthesis and characterization of solution-processable highly branched iridium (III) complex cored dendrimer based on tetraphenylsilane dendron for host-free green phosphorescent organic light emitting diodes. Dyes and Pigments, 2011, 90, 139-145.	2.0	38
135	Pyrene end-capped oligothiophene derivatives for organic thin-film transistors and organic solar cells. New Journal of Chemistry, 2012, 36, 1813.	1.4	38
136	Optical Properties of Perfluorocyclobutane Aryl Ether Polymers for Polymer Photonic Devices. Macromolecules, 2004, 37, 5724-5731.	2.2	37
137	A transparent conducting oxide as an efficient middle electrode for flexible organic tandem solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 542-546.	3.0	37
138	Enhancement of the short circuit current in organic photovoltaic devices with microcavity structures. Applied Physics Letters, 2010, 97, 083306.	1.5	37
139	New host materials with high triplet energy level for blue-emitting electrophosphorescent device. Synthetic Metals, 2007, 157, 743-750.	2.1	36
140	Conjugated Triphenylene Polymers for Blue OLED Devices. Macromolecular Rapid Communications, 2009, 30, 1279-1283.	2.0	36
141	Large-area organic solar cells with metal subelectrode on indium tin oxide anode. Applied Physics Letters, 2010, 96, .	1.5	36
142	Determination of the interface energy level alignment of a doped organic hetero-junction using capacitanceâ€“voltage measurements. Organic Electronics, 2012, 13, 2346-2351.	1.4	36
143	Highly enhanced light extraction from organic light emitting diodes with little image blurring and good color stability. Organic Electronics, 2015, 17, 115-120.	1.4	36
144	Self-assembled perpendicular growth of organic nanoneedles via simple vapor-phase deposition: one-step fabrication of a superhydrophobic surface. Chemical Communications, 2008, , 2998.	2.2	35

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145	Isomer Structureâ^'Optical Property Relationships for Naphthalene-Based Poly(perfluorocyclobutyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	34
146	Polymeric 2 x 2 electrooptic switch consisting of asymmetric Y junctions and Mach-Zehnder interferometer. IEEE Photonics Technology Letters, 1997, 9, 761-763.	1.3	33
147	Synthesis and characterization of new blue light emitting iridium complexes containing a trimethylsilyl group. Journal of Materials Chemistry, 2012, 22, 22721.	6.7	33
148	Vacuum Nanohole Array Embedded Phosphorescent Organic Light Emitting Diodes. Scientific Reports, 2015, 5, 8685.	1.6	33
149	Finely Tuned Blue Iridium Complexes with Varying Horizontal Emission Dipole Ratios and Quantum Yields for Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2015, 3, 211-220.	3.6	33
150	Electronic and chemical properties of cathode structures using 4,7-diphenyl-1,10-phenanthroline doped with rubidium carbonate as electron injection layers. Journal of Applied Physics, 2009, 105, 113714.	1.1	32
151	Recent progress on exciplex-emitting OLEDs. Journal of Information Display, 2019, 20, 105-121.	2.1	32
152	Wavelength insensitive passive polarization converter fabricated by poled polymer waveguides. Applied Physics Letters, 1995, 67, 1821-1823.	1.5	31
153	Optimized Oxygen Plasma Etching of Polycarbonate for Low-Loss Optical Waveguide Fabrication. Japanese Journal of Applied Physics, 2001, 40, 3215-3219.	0.8	31
154	High-quality thin-film passivation by catalyzer-enhanced chemical vapor deposition for organic light-emitting diodes. Applied Physics Letters, 2007, 90, 013502.	1.5	31
155	Composition-controlled organometal halide perovskite via CH₃NH₃I pressure in a vacuum co-deposition process. Journal of Materials Chemistry A, 2016, 4, 5663-5668.	5.2	31
156	Dihedral Angle Distribution of Thermally Activated Delayed Fluorescence Molecules in Solids Induces Dual Phosphorescence from Charge-Transfer and Local Triplet States. Chemistry of Materials, 2021, 33, 5618-5630.	3.2	31
157	High performance electro-optic polymer waveguide device. Applied Physics Letters, 1997, 71, 3779-3781.	1.5	30
158	Low-loss, high-bandwidth graded-index plastic optical fiber fabricated by the centrifugal deposition method. Applied Physics Letters, 2003, 82, 4645-4647.	1.5	30
159	Stacked Polymeric Multimode Waveguide Arrays for Two-Dimensional Optical Interconnects. Journal of Lightwave Technology, 2004, 22, 840-844.	2.7	30
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