

Jang-Joo Kim

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343
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372
ext. papers

15,494
ext. citations

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#	Paper	IF	Citations
343	Organic Light-Emitting Diodes with 30% External Quantum Efficiency Based on a Horizontally Oriented Emitter. <i>Advanced Functional Materials</i> , 2013 , 23, 3896-3900	15.6	443
342	Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency. <i>Advanced Functional Materials</i> , 2013 , 23, 4914-4920	15.6	360
341	A fluorescent organic light-emitting diode with 30% external quantum efficiency. <i>Advanced Materials</i> , 2014 , 26, 5684-8	24	327
340	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. <i>Nature Communications</i> , 2014 , 5, 4769	17.4	280
339	Highly efficient organic light-emitting diodes with phosphorescent emitters having high quantum yield and horizontal orientation of transition dipole moments. <i>Advanced Materials</i> , 2014 , 26, 3844-7	24	266
338	Polymer phosphorescent light-emitting devices doped with tris(2-phenylpyridine) iridium as a triplet emitter. <i>Applied Physics Letters</i> , 2000 , 77, 2280-2282	3.4	231
337	An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage. <i>Advanced Functional Materials</i> , 2015 , 25, 361-366	15.6	224
336	Deep-blue phosphorescence from perfluoro carbonyl-substituted iridium complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14321-8	16.4	220
335	Blue phosphorescent organic light-emitting diodes using an exciplex forming co-host with the external quantum efficiency of theoretical limit. <i>Advanced Materials</i> , 2014 , 26, 4730-4	24	215
334	Energy transfer and device performance in phosphorescent dye doped polymer light emitting diodes. <i>Journal of Chemical Physics</i> , 2003 , 118, 2853	3.9	202
333	Sky-Blue Phosphorescent OLEDs with 34.1% External Quantum Efficiency Using a Low Refractive Index Electron Transporting Layer. <i>Advanced Materials</i> , 2016 , 28, 4920-5	24	191
332	Thermally Activated Delayed Fluorescence from Azasiline Based Intramolecular Charge-Transfer Emitter (DTPDDA) and a Highly Efficient Blue Light Emitting Diode. <i>Chemistry of Materials</i> , 2015 , 27, 6675-6681	9.6	183
331	Low roll-off of efficiency at high current density in phosphorescent organic light emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 223508	3.4	181
330	Low Roll-Off and High Efficiency Orange Organic Light Emitting Diodes with Controlled Co-Doping of Green and Red Phosphorescent Dopants in an Exciplex Forming Co-Host. <i>Advanced Functional Materials</i> , 2013 , 23, 4105-4110	15.6	175
329	Crystal Organic Light-Emitting Diodes with Perfectly Oriented Non-Doped Pt-Based Emitting Layer. <i>Advanced Materials</i> , 2016 , 28, 2526-32	24	168
328	High-Efficiency Deep-Blue Light-Emitting Diodes Based on Phenylquinoline/Carbazole-Based Compounds. <i>Advanced Functional Materials</i> , 2008 , 18, 3922-3930	15.6	162
327	Excitation energy transfer in organic materials: from fundamentals to optoelectronic devices. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1203-31	4.8	160

326	Origin and Control of Orientation of Phosphorescent and TADF Dyes for High-Efficiency OLEDs. <i>Advanced Materials</i> , 2018 , 30, e1705600	24	155
325	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). <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 3415-3423	2.3	154
324	Efficient, Color Stable White Organic Light-Emitting Diode Based on High Energy Level Yellowish-Green Dopants. <i>Advanced Materials</i> , 2008 , 20, 1957-1961	24	153
323	Highly enhanced light extraction from surface plasmonic loss minimized organic light-emitting diodes. <i>Advanced Materials</i> , 2013 , 25, 3571-7	24	149
322	White Luminescence from Polymer Thin Films Containing Excited-State Intramolecular Proton-Transfer Dyes. <i>Advanced Materials</i> , 2005 , 17, 2077-2082	24	145
321	High-efficiency orange and tandem white organic light-emitting diodes using phosphorescent dyes with horizontally oriented emitting dipoles. <i>Advanced Materials</i> , 2014 , 26, 5864-8	24	137
320	Low driving voltage and high stability organic light-emitting diodes with rhenium oxide-doped hole transporting layer. <i>Applied Physics Letters</i> , 2007 , 91, 011113	3.4	133
319	Color Tuning of Cyclometalated Iridium Complexes through Modification of Phenylpyrazole Derivatives and Ancillary Ligand Based on ab Initio Calculations. <i>Organometallics</i> , 2005 , 24, 1578-1585	3.8	131
318	Langevin and Trap-Assisted Recombination in Phosphorescent Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2014 , 24, 4681-4688	15.6	120
317	Extremely deep blue and highly efficient non-doped organic light emitting diodes using an asymmetric anthracene derivative with a xylene unit. <i>Chemical Communications</i> , 2013 , 49, 4664-6	5.8	118
316	Iridium Complexes with Cyclometalated 2-Cycloalkenyl-Pyridine Ligands as Highly Efficient Emitters for Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2008 , 20, 2003-2007	24	118
315	Effect of Molecular Orientation of Epitaxially Grown Platinum(II) Octaethyl Porphyrin Films on the Performance of Field-Effect Transistors. <i>Advanced Materials</i> , 2003 , 15, 699-702	24	115
314	Fluorinated Poly(arylene ether sulfide) for Polymeric Optical Waveguide Devices. <i>Macromolecules</i> , 2001 , 34, 7817-7821	5.5	111
313	Combined Inter- and Intramolecular Charge-Transfer Processes for Highly Efficient Fluorescent Organic Light-Emitting Diodes with Reduced Triplet Exciton Quenching. <i>Advanced Materials</i> , 2017 , 29, 1606448	24	110
312	Boosting Triplet Harvest by Reducing Nonradiative Transition of Exciplex toward Fluorescent Organic Light-Emitting Diodes with 100% Internal Quantum Efficiency. <i>Chemistry of Materials</i> , 2016 , 28, 1936-1941	9.6	107
311	Pyrene based materials for exceptionally deep blue OLEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9083-9086	7.1	105
310	Highly Efficient Light-Harvesting System Based on a Phosphorescent Acceptor Coupled with Dendrimer Donors via Singlet-Singlet and Triplet-Triplet Energy Transfer. <i>Chemistry of Materials</i> , 2007 , 19, 3673-3680	9.6	101
309	Fully vacuum-processed perovskite solar cells with high open circuit voltage using MoO ₃ /NPB as hole extraction layers. <i>Organic Electronics</i> , 2015 , 17, 102-106	3.5	100

308	Outcoupling efficiency of organic light emitting diodes and the effect of ITO thickness. <i>Organic Electronics</i> , 2010 , 11, 1010-1015	3.5	100
307	High-Performance Flexible Organic Light-Emitting Diodes Using Amorphous Indium Zinc Oxide Anode. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, J75		99
306	Exciplex-Forming Co-Host-Based Red Phosphorescent Organic Light-Emitting Diodes with Long Operational Stability and High Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3277-3281	9.5	96
305	Efficient triplet harvesting by fluorescent molecules through exciplexes for high efficiency organic light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 153306	3.4	89
304	Substrate thermal conductivity effect on heat dissipation and lifetime improvement of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2009 , 94, 253302	3.4	89
303	Highly Improved Quantum Efficiency in Blend Polymer LEDs. <i>Macromolecules</i> , 1996 , 29, 165-169	5.5	88
302	Photodegradation of poly(p - phenylenevinylene) by laser light at the peak wavelength of electroluminescence. <i>Applied Physics Letters</i> , 1995 , 67, 3420-3422	3.4	86
301	Design of Heteroleptic Ir Complexes with Horizontal Emitting Dipoles for Highly Efficient Organic Light-Emitting Diodes with an External Quantum Efficiency of 38%. <i>Chemistry of Materials</i> , 2016 , 28, 7505-7510	9.6	85
300	Effectiveness of p-dopants in an organic hole transporting material. <i>Applied Physics Letters</i> , 2009 , 94, 123306	3.4	84
299	Highly efficient deep-blue phosphorescence from heptafluoropropyl-substituted iridium complexes. <i>Chemical Communications</i> , 2015 , 51, 58-61	5.8	83
298	The Mechanism of Charge Generation in Charge-Generation Units Composed of p-Doped Hole-Transporting Layer/HATCN/n-Doped Electron-Transporting Layers. <i>Advanced Functional Materials</i> , 2012 , 22, 855-860	15.6	82
297	Synthesis and characterization of novel polyimides containing fluorine and phosphine oxide moieties. <i>Polymer</i> , 2001 , 42, 6019-6030	3.9	82
296	Polymer-Layered Silicate Nanocomposite Light-Emitting Devices. <i>Advanced Materials</i> , 2001 , 13, 211-213	2.4	82
295	Novel bi-nuclear boron complex with pyrene ligand: red-light emitting as well as electron transporting material in organic light-emitting diodes. <i>Organic Letters</i> , 2010 , 12, 1272-5	6.2	80
294	Polymer-Based Blue Electrophosphorescent Light-Emitting Diodes Using a Bisorthometalated Ir(III) Complex as the Triplet Emitter. <i>Chemistry of Materials</i> , 2004 , 16, 4642-4646	9.6	80
293	High-Efficiency Sky Blue to Ultradeep Blue Thermally Activated Delayed Fluorescent Diodes Based on Ortho-Carbazole-Appended Triarylboron Emitters: Above 32% External Quantum Efficiency in Blue Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1800385	8.1	80
292	In situ antibody detection and charge discrimination using aqueous stable pentacene transistor biosensors. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2170-6	16.4	77
291	Highly Efficient Sky-Blue Fluorescent Organic Light Emitting Diode Based on Mixed Cohost System for Thermally Activated Delayed Fluorescence Emitter (2CzPN). <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9806-10	9.5	77

290	Deep-blue phosphorescent iridium complexes with picolinic acid N-oxide as the ancillary ligand for high efficiency organic light-emitting diodes. <i>Organic Electronics</i> , 2010 , 11, 564-572	3.5	76
289	Highly efficient tandem p-i-n organic light-emitting diodes adopting a low temperature evaporated rhenium oxide interconnecting layer. <i>Applied Physics Letters</i> , 2008 , 93, 103304	3.4	74
288	Extremely Flexible Transparent Conducting Electrodes for Organic Devices. <i>Advanced Energy Materials</i> , 2014 , 4, 1300474	21.8	73
287	Corrugated organic light emitting diodes for enhanced light extraction. <i>Organic Electronics</i> , 2010 , 11, 711-716	3.5	72
286	Highly flexible, transparent, and low resistance indium zinc oxide/Ag/indium zinc oxide multilayer anode on polyethylene terephthalate substrate for flexible organic light light-emitting diodes. <i>Thin Solid Films</i> , 2008 , 516, 7881-7885	2.2	72
285	Highly Efficient Deep-Blue OLEDs using a TADF Emitter with a Narrow Emission Spectrum and High Horizontal Emitting Dipole Ratio. <i>Advanced Materials</i> , 2020 , 32, e2004083	24	72
284	Ultraviolet nanoimprinted polymer nanostructure for organic light emitting diode application. <i>Applied Physics Letters</i> , 2008 , 92, 223307	3.4	71
283	Silane- and triazine-containing hole and exciton blocking material for high-efficiency phosphorescent organic light emitting diodes. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3714		71
282	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. <i>Nature Communications</i> , 2018 , 9, 3207	17.4	70
281	Enhanced light out-coupling of OLEDs with low haze by inserting randomly dispersed nanopillar arrays formed by lateral phase separation of polymer blends. <i>Small</i> , 2013 , 9, 3858-63	11	70
280	Reduction of Collection Efficiency of Charge Carriers with Increasing Cell Size in Polymer Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 343-347	15.6	67
279	A deep red phosphorescent Ir(III) complex for use in polymer light-emitting diodes: role of the arylsilyl substituents. <i>Journal of Organic Chemistry</i> , 2007 , 72, 6241-6	4.2	67
278	A high performance inverted organic light emitting diode using an electron transporting material with low energy barrier for electron injection. <i>Organic Electronics</i> , 2011 , 12, 1763-1767	3.5	65
277	Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex. <i>Advanced Optical Materials</i> , 2015 , 3, 895-899	8.1	64
276	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. <i>Chemistry of Materials</i> , 2015 , 27, 2767-2769	9.6	64
275	Photoinduced supramolecular chirality in amorphous azobenzene polymer films. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3504-5	16.4	63
274	Strategies for the Molecular Design of Donor-Acceptor-type Fluorescent Emitters for Efficient Deep Blue Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2018 , 30, 857-863	9.6	62
273	Hole injection/transport materials derived from Heck and sol-gel chemistry for application in solution-processed organic electronic devices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1375-82	16.4	62

272	Controlling Horizontal Dipole Orientation and Emission Spectrum of Ir Complexes by Chemical Design of Ancillary Ligands for Efficient Deep-Blue Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2019 , 31, e1808102	24	61
271	Highly Efficient, Conventional, Fluorescent Organic Light-Emitting Diodes with Extended Lifetime. <i>Advanced Materials</i> , 2017 , 29, 1702159	24	60
270	Novel binaphthyl-containing bi-nuclear boron complex with low concentration quenching effect for efficient organic light-emitting diodes. <i>Chemical Communications</i> , 2010 , 46, 6512-4	5.8	59
269	Low-Temperature Organic (CYTOP) Passivation for Improvement of Electric Characteristics and Reliability in IGZO TFTs. <i>IEEE Electron Device Letters</i> , 2012 , 33, 381-383	4.4	58
268	High performance top-emitting organic light-emitting diodes with copper iodide-doped hole injection layer. <i>Organic Electronics</i> , 2008 , 9, 805-808	3.5	58
267	Simple and Low Cost Fabrication of Thermally Stable Polymeric Multimode Waveguides using a UV-curable Epoxy. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 1277-1279	1.4	58
266	A high performance transparent inverted organic light emitting diode with 1,4,5,8,9,11-hexaazatriphenylenehexacarbonitrile as an organic buffer layer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15262		57
265	A novel spiro-functionalized polyfluorene derivative with solubilizing side chains. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1342		57
264	Enhanced efficiency of dye-sensitized solar cells by UV λ 3 treatment of TiO ₂ layer. <i>Current Applied Physics</i> , 2009 , 9, 404-408	2.6	55
263	Synthesis and characterization of novel polyimides with 2,2-bis[4(4-aminophenoxy)phenyl]phthalein-3,5-bis(trifluoromethyl)anilide. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 3361-3374	2.5	55
262	Energy transfer from exciplexes to dopants and its effect on efficiency of organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2011 , 110, 124519	2.5	54
261	Dendritic Ir(III) complexes functionalized with triphenylsilylphenyl groups: Synthesis, DFT calculation and comprehensive structure-property correlation. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8347		54
260	Effect of host organic semiconductors on electrical doping. <i>Organic Electronics</i> , 2010 , 11, 486-489	3.5	54
259	Low-loss fluorinated poly(arylene ether sulfide) waveguides with high thermal stability. <i>Journal of Lightwave Technology</i> , 2001 , 19, 872-875	4	54
258	Transparent Conducting Indium Zinc Tin Oxide Anode for Highly Efficient Phosphorescent Organic Light Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2008 , 155, J1	3.9	52
257	Silicon-containing dendritic tris-cyclometalated Ir(III) complex and its electrophosphorescence in a polymer host. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4706		52
256	Polymeric wavelength filters fabricated using holographic surface relief gratings on azobenzene-containing polymer films. <i>Applied Physics Letters</i> , 2003 , 82, 3823-3825	3.4	52
255	Enhancement of near-infrared absorption with high fill factor in lead phthalocyanine-based organic solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9077		51

254	Polymer electrophosphorescent device: comparison of phosphorescent dye doped and coordinated systems. <i>Optical Materials</i> , 2003 , 21, 119-123	3.3	51
253	In situ investigation of degradation in polymeric electroluminescent devices using time-resolved confocal laser scanning microscope. <i>Applied Physics Letters</i> , 1997 , 70, 3470-3472	3.4	50
252	Synthesis and characterization of novel 3,6-di[3,5-bis(trifluoromethyl)phenyl]pyromellitic dianhydride for polyimide synthesis. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 4217-4227	2.5	49
251	The effect of Al electrodes on the nanostructure of poly(3-hexylthiophene): Fullerene solar cell blends during thermal annealing. <i>Organic Electronics</i> , 2009 , 10, 1505-1510	3.5	48
250	Phenazasiline/Spiroacridine Donor Combined with Methyl-Substituted Linkers for Efficient Deep Blue Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7199-7207	9.5	47
249	Effect of Doping Concentration on Microstructure of Conjugated Polymers and Characteristics in N-Type Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 758-767	15.6	47
248	All-optical Mach-Zehnder modulator using a photochromic dye-doped polymer. <i>Applied Physics Letters</i> , 2002 , 80, 1710-1712	3.4	47
247	Highly efficient orange organic light-emitting diodes using a novel iridium complex with imide group-containing ligands. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8824		46
246	A highly efficient wide-band-gap host material for blue electrophosphorescent light-emitting devices. <i>Applied Physics Letters</i> , 2007 , 91, 233501	3.4	46
245	An Exciplex Host for Deep-Blue Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37883-37887	9.5	45
244	Transparent, Low Resistance, and Flexible Amorphous ZnO-Doped In ₂ O ₃ Anode Grown on a PES Substrate. <i>Journal of the Electrochemical Society</i> , 2007 , 154, J81	3.9	45
243	Unraveling the orientation of phosphors doped in organic semiconducting layers. <i>Nature Communications</i> , 2017 , 8, 791	17.4	44
242	All-optical switch and modulator using photochromic dye doped polymer waveguides. <i>Optical Materials</i> , 2003 , 21, 543-548	3.3	44
241	Harnessing Triplet Excited States by Fluorescent Dopant Utilizing Codoped Phosphorescent Dopant in Exciplex Host for Efficient Fluorescent Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2017 , 5, 1600749	8.1	43
240	Real Time Investigation of the Interface between a P3HT:PCBM Layer and an Al Electrode during Thermal Annealing. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1269-73	4.8	43
239	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1027-1032	7.1	42
238	Luminescence from oriented emitting dipoles in a birefringent medium. <i>Optics Express</i> , 2015 , 23, A279-93	3.3	42
237	Origin of charge generation efficiency of metal oxide p-dopants in organic semiconductors. <i>Organic Electronics</i> , 2011 , 12, 950-954	3.5	42

236	Formation of perfect ohmic contact at indium tin oxide/N,NRdi(naphthalene-1-yl)-N,NRdiphenyl-benzidine interface using ReO ₃ . <i>Scientific Reports</i> , 2014 , 4, 3902	4.9	41
235	Interfacial doping for efficient charge injection in organic semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1399-1413	1.6	41
234	Controlling Emitting Dipole Orientation with Methyl Substituents on Main Ligand of Iridium Complexes for Highly Efficient Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015 , 3, 1191-1196	8.1	39
233	Photoconductivity of C60 as an Origin of Bias-Dependent Photocurrent in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2012 , 22, 3089-3094	15.6	39
232	Homogeneous dispersion of organic p-dopants in an organic semiconductor as an origin of high charge generation efficiency. <i>Applied Physics Letters</i> , 2011 , 98, 173303	3.4	39
231	A host material containing tetraphenylsilane for phosphorescent OLEDs with high efficiency and operational stability. <i>Organic Electronics</i> , 2008 , 9, 452-460	3.5	39
230	Charge transport in electrically doped amorphous organic semiconductors. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 984-1000	4.8	38
229	Rubidium-Carbonate-Doped 4,7-Diphenyl-1,10-phenanthroline Electron Transporting Layer for High-Efficiency p-i-n Organic Light Emitting Diodes. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, J8		38
228	High-Quality White OLEDs with Comparable Efficiencies to LEDs. <i>Advanced Optical Materials</i> , 2018 , 6, 1701349	8.1	37
227	Enhancement of hole injection using ozone treated Ag nanodots dispersed on indium tin oxide anode for organic light emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 163516	3.4	37
226	Optical Properties of Perfluorocyclobutane Aryl Ether Polymers for Polymer Photonic Devices. <i>Macromolecules</i> , 2004 , 37, 5724-5731	5.5	37
225	Fluorinated poly(arylene ether sulfone)s for polymeric optical waveguide devices. <i>Polymer</i> , 2003 , 44, 4189-4195	3.9	37
224	Highly efficient non-doped deep blue fluorescent emitters with horizontal emitting dipoles using interconnecting units between chromophores. <i>Chemical Communications</i> , 2016 , 52, 10956-9	5.8	37
223	Mobility balance in the light-emitting layer governs the polaron accumulation and operational stability of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2017 , 111, 203301	3.4	36
222	Organic field-effect transistors by a wet-transferring method. <i>Applied Physics Letters</i> , 2003 , 83, 1243-1245	5.4	36
221	Enhancement of the short circuit current in organic photovoltaic devices with microcavity structures. <i>Applied Physics Letters</i> , 2010 , 97, 083306	3.4	35
220	Conjugated Triphenylene Polymers for Blue OLED Devices. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1279-83	4.8	35
219	Air stable C60 based n-type organic field effect transistor using a perfluoropolymer insulator. <i>Organic Electronics</i> , 2008 , 9, 481-486	3.5	35

218	New host materials with high triplet energy level for blue-emitting electrophosphorescent device. <i>Synthetic Metals</i> , 2007 , 157, 743-750	3.6	35
217	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. <i>Organic Electronics</i> , 2017 , 42, 337-342	3.5	34
216	External Quantum Efficiency Exceeding 24% with CIE Value of 0.08 using a Novel Carbene-Based Iridium Complex in Deep-Blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2002120	24	34
215	Determination of the interface energy level alignment of a doped organic hetero-junction using capacitance-voltage measurements. <i>Organic Electronics</i> , 2012 , 13, 2346-2351	3.5	34
214	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. <i>Dyes and Pigments</i> , 2011 , 90, 139-145	4.6	34
213	A transparent conducting oxide as an efficient middle electrode for flexible organic tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 542-546	6.4	34
212	Self-assembled perpendicular growth of organic nanoneedles via simple vapor-phase deposition: one-step fabrication of a superhydrophobic surface. <i>Chemical Communications</i> , 2008 , 2998-3000	5.8	34
211	1 D all-optical switch using photochromic-doped waveguides. <i>Electronics Letters</i> , 2000 , 36, 1641	1.1	34
210	Isomer Structure-Optical Property Relationships for Naphthalene-Based Poly(perfluorocyclobutyl ether)s. <i>Macromolecules</i> , 2005 , 38, 8278-8284	5.5	33
209	Large-area organic solar cells with metal subelectrode on indium tin oxide anode. <i>Applied Physics Letters</i> , 2010 , 96, 173301	3.4	32
208	Pyrene end-capped oligothiophene derivatives for organic thin-film transistors and organic solar cells. <i>New Journal of Chemistry</i> , 2012 , 36, 1813	3.6	31
207	Low-loss and thermally stable TE-mode selective polymer waveguide using photosensitive fluorinated polyimide. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1297-1299	2.2	31
206	Highly enhanced light extraction from organic light emitting diodes with little image blurring and good color stability. <i>Organic Electronics</i> , 2015 , 17, 115-120	3.5	30
205	Electronic and chemical properties of cathode structures using 4,7-diphenyl-1,10-phenanthroline doped with rubidium carbonate as electron injection layers. <i>Journal of Applied Physics</i> , 2009 , 105, 113714-5	4.5	30
204	Vacuum nanohole array embedded phosphorescent organic light emitting diodes. <i>Scientific Reports</i> , 2015 , 5, 8685	4.9	29
203	Finely Tuned Blue Iridium Complexes with Varying Horizontal Emission Dipole Ratios and Quantum Yields for Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2015 , 3, 211-220	8.1	29
202	Synthesis and characterization of new blue light emitting iridium complexes containing a trimethylsilyl group. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22721		29
201	High performance inkjet printed phosphorescent organic light emitting diodes based on small molecules commonly used in vacuum processes. <i>Thin Solid Films</i> , 2012 , 520, 6954-6958	2.2	29

200	High-quality thin-film passivation by catalyzer-enhanced chemical vapor deposition for organic light-emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 013502	3.4	29
199	Electronic Structure and Emission Process of Excited Charge Transfer States in Solids. <i>Chemistry of Materials</i> , 2018 , 30, 5648-5654	9.6	28
198	Formation of Bulk Heterojunctions by Alternative Thermal Deposition and Its Structure Analysis for High Efficiency Small Molecular Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2011 , 21, 2067-2071	15.6	28
197	Low-loss, high-bandwidth graded-index plastic optical fiber fabricated by the centrifugal deposition method. <i>Applied Physics Letters</i> , 2003 , 82, 4645-4647	3.4	28
196	Wavelength insensitive passive polarization converter fabricated by poled polymer waveguides. <i>Applied Physics Letters</i> , 1995 , 67, 1821-1823	3.4	28
195	Triplet Harvesting by a Fluorescent Emitter Using a Phosphorescent Sensitizer for Blue Organic-Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26-30	9.5	28
194	CuI interlayers in lead phthalocyanine thin films enhance near-infrared light absorption. <i>Applied Physics Letters</i> , 2012 , 100, 263303	3.4	27
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