

# Jang-Joo Kim

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

343  
papers

14,215  
citations

65  
h-index

103  
g-index

372  
ext. papers

15,494  
ext. citations

6.9  
avg, IF

6.77  
L-index

#	Paper	IF	Citations
343	Crystal Facet Engineering of TiO Nanostructures for Enhancing Photoelectrochemical Water Splitting with BiVO Nanodots.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 48	19.5	2
342	Breaking the Efficiency Limit of Deep-Blue Fluorescent OLEDs Based on Anthracene Derivatives (Adv. Mater. 1/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270002	24	
341	Breaking the Efficiency Limit of Deep-Blue Fluorescent OLEDs Based on Anthracene Derivatives. <i>Advanced Materials</i> , <b>2021</b> , e2100161	24	8
340	Random Nanowire Arrays Spontaneously Formed via Vacuum Deposition for Enhancing Light Extraction from Inverted Top-Emitting Organic Light-Emitting Diodes. <i>Fibers and Polymers</i> , <b>2021</b> , 22, 1511	2	1
339	Dihedral Angle Distribution of Thermally Activated Delayed Fluorescence Molecules in Solids Induces Dual Phosphorescence from Charge-Transfer and Local Triplet States. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5618-5630	9.6	7
338	TD-DFT and Experimental Methods for Unraveling the Energy Distribution of Charge-Transfer Triplet/Singlet States of a TADF Molecule in a Frozen Matrix. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 1234-1242	2.8	5
337	Highly Efficient Deep Blue Phosphorescent OLEDs Based on Tetradentate Pt(II) Complexes Containing Adamantyl Spacer Groups. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100967	15.6	16
336	The effect of the electron-donor ability on the OLED efficiency of twisted donor-acceptor type emitters. <i>Organic Electronics</i> , <b>2021</b> , 95, 106187	3.5	0
335	Molecular library of OLED host materials—Evaluating the multiscale simulation workflow. <i>Chemical Physics Reviews</i> , <b>2021</b> , 2, 031304	4.4	7
334	Impacts of Minority Charge Carrier Injection on the Negative Capacitance, Steady-State Current, and Transient Current of a Single-Layer Organic Semiconductor Device. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000622	6.4	2
333	A Broadband Multiplex Living Solar Cell. <i>Nano Letters</i> , <b>2020</b> , 20, 4286-4291	11.5	8
332	Effect of ortho-biphenyl substitution on the excited state dynamics of a multi-carbazole TADF molecule. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12075-12084	7.1	16
331	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> , <b>2020</b> , 32, e2002120	24	34
330	Highly Efficient Tandem White OLED Using a Hollow Structure. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901509	4.6	5
329	Highly efficient deep-blue fluorescence OLEDs with excellent charge balance based on phenanthro[9,10-d]oxazole-anthracene derivatives. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11168-11176	7.1	23
328	Synthetic Strategy for Preserving Sky-Blue Electrophosphorescence in Square-Planar Pt(II) Complexes. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 604-617	4	11
327	Diffusion Mechanism of Exciplexes in Organic Optoelectronics. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	5

326	Design Strategy of Anthracene-Based Fluorophores toward High-Efficiency Deep Blue Organic Light-Emitting Diodes Utilizing Triplet-Triplet Fusion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15422-15429	9.5	23
325	Simple method to extract extinction coefficients of films with the resolution of 10 using just transmission data and application to intermolecular charge-transfer absorption in an exciplex-forming organic film. <i>Optics Express</i> , <b>2020</b> , 28, 11892-11898	3.3	0
324	Linear-shaped thermally activated delayed fluorescence emitter using 1,5-naphthyridine as an electron acceptor for efficient light extraction. <i>Organic Electronics</i> , <b>2020</b> , 78, 105600	3.5	8
323	Routes for Efficiency Enhancement in Fluorescent TADF Exciplex Host OLEDs Gained from an Electro-Optical Device Model. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900804	6.4	14
322	Highly Efficient Deep-Blue OLEDs using a TADF Emitter with a Narrow Emission Spectrum and High Horizontal Emitting Dipole Ratio. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004083	24	72
321	Effect of a linker of push-pull donor molecules on the performance of organic photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11145-11152	7.1	8
320	Comprehensive Model of the Degradation of Organic Light-Emitting Diodes and Application for Efficient, Stable Blue Phosphorescent Devices with Reduced Influence of Polarons. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	6
319	Random organic nano-textured microstructures formed by photoexcitation for light extraction of blue OLEDs. <i>Organic Electronics</i> , <b>2020</b> , 87, 105892	3.5	5
318	Growth mechanism of CH <sub>3</sub> NH <sub>3</sub> I in a vacuum processed perovskite. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 3906-3911	3.1	2
317	Blue thermally activated delayed fluorescence emitter using modulated triazines as electron acceptors. <i>Dyes and Pigments</i> , <b>2020</b> , 172, 107864	4.6	14
316	Emitting dipole orientation and molecular orientation of homoleptic Ir(III) complexes. <i>Organic Electronics</i> , <b>2020</b> , 82, 105715	3.5	6
315	Recent progress on exciplex-emitting OLEDs. <i>Journal of Information Display</i> , <b>2019</b> , 20, 105-121	4.1	16
314	Phenazasiline/Spiroacridine Donor Combined with Methyl-Substituted Linkers for Efficient Deep Blue Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7199-7207	9.5	47
313	Analysis of the charge transfer and separation in electrically doped organic semiconductors by electron spin resonance spectroscopy. <i>Organic Electronics</i> , <b>2019</b> , 67, 242-246	3.5	5
312	12-3: A Highly Mass-producible Nano-lens Array Technology for Optically Efficient Full-color Organic Light Emitting Diode Display Applications. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 149-152	0.5	2
311	Densely cross-linked polysiloxane dielectric for organic thin-film transistors with enhanced electrical stability. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5821-5829	7.1	12
310	A spiro-silafluorene-phenazasiline donor-based efficient blue thermally activated delayed fluorescence emitter and its host-dependent device characteristics. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4191-4198	7.1	22
309	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> , <b>2019</b> , 31, e1808102	24	61

308	Enhanced Triplet-Triplet Annihilation of Blue Fluorescent Organic Light-Emitting Diodes by Generating Excitons in Trapped Charge-Free Regions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 48121-48127	9.5	11
307	Triplet Harvesting by a Fluorescent Emitter Using a Phosphorescent Sensitizer for Blue Organic-Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26-30	9.5	28
306	Unveiling the Role of Dopant Polarity in the Recombination and Performance of Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800001	15.6	13
305	Dual pattern for enhancing light extraction efficiency of white organic light-emitting diodes. <i>Organic Electronics</i> , <b>2018</b> , 57, 201-205	3.5	11
304	High-Quality White OLEDs with Comparable Efficiencies to LEDs. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701349	8.1	37
303	Strategies for the Molecular Design of Donor-Acceptor-type Fluorescent Emitters for Efficient Deep Blue Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 857-863	9.6	62
302	Electronic Structure and Emission Process of Excited Charge Transfer States in Solids. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5648-5654	9.6	28
301	Control of Crystallinity in PbPc:C Blend Film and Application for Inverted Near-Infrared Organic Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25614-25620	9.5	17
300	Origin and Control of Orientation of Phosphorescent and TADF Dyes for High-Efficiency OLEDs. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705600	24	155
299	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. <i>Nature Communications</i> , <b>2018</b> , 9, 3207	17.4	70
298	Effect of the Linker on the performance of organic photovoltaic devices based on push-pull D-A molecules. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11458-11464	3.6	8
297	Inverted near-infrared organic photodetector with oriented lead (II) phthalocyanine molecules via substrate heating. <i>Organic Electronics</i> , <b>2018</b> , 61, 164-169	3.5	12
296	Cross-linked poly(hydroxy imide) gate-insulating materials for low-temperature processing of organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 13359-13366	7.1	10
295	Uniform Insulating Properties of Low-Temperature Curable Gate Dielectric for Organic Thin-Film Transistor Arrays on Plastic Substrate. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 1-1	4.4	1
294	Exciplex: Its Nature and Application to OLEDs <b>2018</b> , 331-376		2
293	Electronic biosensing with flexible organic transistor devices. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 034003	3.1	19
292	Optical Analysis of Power Distribution in Top-Emitting Organic Light Emitting Diodes Integrated with Nanolens Array Using Finite Difference Time Domain. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18942-18947	9.5	14
291	A simple method to measure intermolecular charge-transfer absorption of organic films. <i>Organic Electronics</i> , <b>2018</b> , 62, 511-515	3.5	11

290	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> , <b>2018</b> , 6, 1800385	8.1	80
289	Exciplex-Forming Co-Host-Based Red Phosphorescent Organic Light-Emitting Diodes with Long Operational Stability and High Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3277-3281	9.5	96
288	Hole mobility in various transition-metal-oxides doped organic semiconductor films. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 053303	3.4	1
287	Synthesis and characterization of perfluorinated phenyl-substituted Ir(III) complex for pure green emission. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3107-3111	7.1	16
286	Combined Inter- and Intramolecular Charge-Transfer Processes for Highly Efficient Fluorescent Organic Light-Emitting Diodes with Reduced Triplet Exciton Quenching. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606448	24	110
285	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1027-1032	7.1	42
284	Air void optical scattering structure for high-brightness organic light emitting diodes. <i>Ceramics International</i> , <b>2017</b> , 43, S455-S459	5.1	4
283	Dependence of Pt(II) based phosphorescent emitter orientation on host molecule orientation in doped organic thin films. <i>Organic Electronics</i> , <b>2017</b> , 45, 279-284	3.5	18
282	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> , <b>2017</b> , 5, 1600749	8.1	43
281	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. <i>Organic Electronics</i> , <b>2017</b> , 42, 337-342	3.5	34
280	An Exciplex Host for Deep-Blue Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37883-37887	9.5	45
279	Unraveling the orientation of phosphors doped in organic semiconducting layers. <i>Nature Communications</i> , <b>2017</b> , 8, 791	17.4	44
278	Highly Efficient, Conventional, Fluorescent Organic Light-Emitting Diodes with Extended Lifetime. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702159	24	60
277	Improved out-coupling efficiency of organic light emitting diodes fabricated on a TiO <sub>2</sub> planarization layer with embedded Si oxide nanostructures. <i>Optical Materials</i> , <b>2017</b> , 72, 828-832	3.3	5
276	Mobility balance in the light-emitting layer governs the polaron accumulation and operational stability of organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 203301	3.4	36
275	Crystallization-assisted nano-lens array fabrication for highly efficient and color stable organic light emitting diodes. <i>Nanoscale</i> , <b>2017</b> , 9, 230-236	7.7	15
274	Unraveling the origin of the orientation of Ir complexes doped in organic semiconducting layers <b>2017</b> ,		1
273	50-2: Invited Paper: Highly Efficient OLEDs using Exciplex Hosts. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 746-749	0.5	

272	Quantitative Analysis of the Efficiency of OLEDs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33010-33018	22	
271	Sky-Blue Phosphorescent OLEDs with 34.1% External Quantum Efficiency Using a Low Refractive Index Electron Transporting Layer. <i>Advanced Materials</i> , <b>2016</b> , 28, 4920-5	24	191
270	Crystal Organic Light-Emitting Diodes with Perfectly Oriented Non-Doped Pt-Based Emitting Layer. <i>Advanced Materials</i> , <b>2016</b> , 28, 2526-32	24	168
269	Composition-controlled organometal halide perovskite via CH <sub>3</sub> NH <sub>3</sub> I pressure in a vacuum co-deposition process. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5663-5668	13	21
268	Direct formation of nano-pillar arrays by phase separation of polymer blend for the enhanced out-coupling of organic light emitting diodes with low pixel blurring. <i>Optics Express</i> , <b>2016</b> , 24, A488-96	3-3	12
267	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> , <b>2016</b> , 28, 1936-1941	9.6	107
266	Efficient Vacuum-Deposited Ternary Organic Solar Cells with Broad Absorption, Energy Transfer, and Enhanced Hole Mobility. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 1214-9	9.5	21
265	Phosphorescent OLEDs: Sky-Blue Phosphorescent OLEDs with 34.1% External Quantum Efficiency Using a Low Refractive Index Electron Transporting Layer (Adv. Mater. 24/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4758	24	4
264	Link between hopping models and percolation scaling laws for charge transport in mixtures of small molecules. <i>AIP Advances</i> , <b>2016</b> , 6, 045221	1.5	6
263	New sky-blue and bluish-green emitting Ir(III) complexes containing an azoline ancillary ligand for highly efficient PhOLEDs. <i>Dyes and Pigments</i> , <b>2016</b> , 131, 60-68	4.6	14
262	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 &amp; Interfaces</i> , <b>2016</b> , 8, 9806-10	9.5	77
261	N-Type Molecular Doping in Organic Semiconductors: Formation and Dissociation Efficiencies of a Charge Transfer Complex. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 9475-9481	3.8	23
260	Blue phosphorescent OLEDs with 34.1% external quantum efficiency using a low refractive index electron transporting material <b>2016</b> ,		2
259	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> , <b>2016</b> , 28, 7505-7510	9.6	85
258	Synthesis and characterization of highly efficient blue Ir(III) complexes by tailoring $\beta$ -diketonate ancillary ligand for highly efficient PhOLED applications. <i>Organic Electronics</i> , <b>2016</b> , 39, 91-99	3.5	11
257	Highly efficient non-doped deep blue fluorescent emitters with horizontal emitting dipoles using interconnecting units between chromophores. <i>Chemical Communications</i> , <b>2016</b> , 52, 10956-9	5.8	37
256	Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 895-899	8.1	64
255	PhOLEDs: Finely Tuned Blue Iridium Complexes with Varying Horizontal Emission Dipole Ratios and Quantum Yields for Phosphorescent Organic Light-Emitting Diodes (Advanced Optical Materials 2/2015). <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 140-140	8.1	

254	Enhancement of the Fill Factor through an Increase of the Crystallinity in Fullerene-Based Small-Molecule Organic Photovoltaic Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9134-8	9.5	3
253	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> , <b>2015</b> , 3, 1191-1196	8.1	39
252	Efficient Vacuum-Deposited Tandem Organic Solar Cells with Fill Factors Higher Than Single-Junction Subcells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500228	21.8	10
251	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2767-2769	9.6	64
250	Luminescence from oriented emitting dipoles in a birefringent medium. <i>Optics Express</i> , <b>2015</b> , 23, A279-913	3.3	42
249	Triplet Harvesting: Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex (Advanced Optical Materials 7/2015). <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 846-846	8.1	1
248	Vacuum-depositable thiophene- and benzothiadiazole-based donor materials for organic solar cells. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 9591-9595	3.6	14
247	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> , <b>2015</b> , 27, 6675-6681	9.6	183
246	Fully vacuum-processed perovskite solar cells with high open circuit voltage using MoO <sub>3</sub> /NPB as hole extraction layers. <i>Organic Electronics</i> , <b>2015</b> , 17, 102-106	3.5	100
245	Highly enhanced light extraction from organic light emitting diodes with little image blurring and good color stability. <i>Organic Electronics</i> , <b>2015</b> , 17, 115-120	3.5	30
244	Effect of Doping Concentration on Microstructure of Conjugated Polymers and Characteristics in N-Type Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 758-767	15.6	47
243	An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 361-366	15.6	224
242	Highly efficient deep-blue phosphorescence from heptafluoropropyl-substituted iridium complexes. <i>Chemical Communications</i> , <b>2015</b> , 51, 58-61	5.8	83
241	Vacuum nanohole array embedded phosphorescent organic light emitting diodes. <i>Scientific Reports</i> , <b>2015</b> , 5, 8685	4.9	29
240	Crystallinity and interface of 1,4,5,8,9,11-hexaazatriphenylene-hexacarbonitrile thin films between organic and transparent conductive oxide layers. <i>Applied Physics Express</i> , <b>2015</b> , 8, 051601	2.4	
239	Charge transport in electrically doped amorphous organic semiconductors. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 984-1000	4.8	38
238	Enhanced light extraction efficiency in organic light-emitting diode with randomly dispersed nanopattern. <i>Optics Letters</i> , <b>2015</b> , 40, 5838-41	3	6
237	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> , <b>2015</b> , 3, 211-220	8.1	29

236	Organic Electronics: An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage (Adv. Funct. Mater. 3/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 342-342	15.6	1
235	Multilayer epitaxial growth of lead phthalocyanine and C(70) using CuBr as a templating layer for enhancing the efficiency of organic photovoltaic cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4286-91	9.5	17
234	Blue phosphorescent organic light-emitting diodes using an exciplex forming co-host with the external quantum efficiency of theoretical limit. <i>Advanced Materials</i> , <b>2014</b> , 26, 4730-4	24	215
233	Highly efficient inverted top emitting organic light emitting diodes using a transparent top electrode with color stability on viewing angle. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 073301	3.4	19
232	A fluorescent organic light-emitting diode with 30% external quantum efficiency. <i>Advanced Materials</i> , <b>2014</b> , 26, 5684-8	24	327
231	Deep-Blue Phosphorescent Emitters with Phosphoryl Groups for Organic Light-Emitting Diodes by Solution Processes. <i>Israel Journal of Chemistry</i> , <b>2014</b> , 54, 993-998	3.4	6
230	Light-Emitting-Diodes: High-Efficiency Orange and Tandem White Organic Light-Emitting Diodes Using Phosphorescent Dyes with Horizontally Oriented Emitting Dipoles (Adv. Mater. 33/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 5863-5863	24	1
229	Vacuum nano-hole array embedded organic light emitting diodes. <i>Nanoscale</i> , <b>2014</b> , 6, 2642-8	7.7	23
228	Correlation of the electronic structure of an interconnection unit with the device performance of tandem organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5450-5454	13	5
227	The epitaxial growth of lead phthalocyanine on copper halogen compounds as the origin of templating effects. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8730-8735	13	10
226	Pyrene based materials for exceptionally deep blue OLEDs. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9083-9086	7.1	105
225	Highly efficient inverted top emitting organic light emitting diodes using a horizontally oriented green phosphorescent emitter. <i>Organic Electronics</i> , <b>2014</b> , 15, 2715-2718	3.5	6
224	Vacuum processable donor material based on dithieno[3,2-b:2',3'-d]thiophene and pyrene for efficient organic solar cells. <i>RSC Advances</i> , <b>2014</b> , 4, 24453-24457	3.7	6
223	Flexible Electronics: Extremely Flexible Transparent Conducting Electrodes for Organic Devices (Adv. Energy Mater. 1/2014). <i>Advanced Energy Materials</i> , <b>2014</b> , 4,	21.8	4
222	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. <i>Nature Communications</i> , <b>2014</b> , 5, 4769	17.4	280
221	Langevin and Trap-Assisted Recombination in Phosphorescent Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4681-4688	15.6	120
220	Highly Efficient Vacuum-Processed Organic Solar Cells Containing Thieno[3,2-b]thiophene-thiazole. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 11559-11565	3.8	19
219	Highly efficient bluish green phosphorescent organic light-emitting diodes based on heteroleptic iridium(III) complexes with phenylpyridine main skeleton. <i>Organic Electronics</i> , <b>2014</b> , 15, 1687-1694	3.5	6



218	Temperature and interfacial buffer layer effects on the nanostructure in a copper(II) phthalocyanine: Fullerene bulk heterojunction. <i>Materials Research Bulletin</i> , <b>2014</b> , 58, 102-106	5.1	
217	Highly efficient organic light-emitting diodes with phosphorescent emitters having high quantum yield and horizontal orientation of transition dipole moments. <i>Advanced Materials</i> , <b>2014</b> , 26, 3844-7	24	266
216	High-efficiency orange and tandem white organic light-emitting diodes using phosphorescent dyes with horizontally oriented emitting dipoles. <i>Advanced Materials</i> , <b>2014</b> , 26, 5864-8	24	137
215	Effect of different p-dopants in an interconnection unit on the performance of tandem organic solar cells. <i>Organic Electronics</i> , <b>2014</b> , 15, 1805-1809	3.5	5
214	Formation of perfect ohmic contact at indium tin oxide/N,NRdi(naphthalene-1-yl)-N,NRdiphenyl-benzidine interface using ReO <sub>3</sub> . <i>Scientific Reports</i> , <b>2014</b> , 4, 3902	4.9	41
213	A high performance semitransparent organic photodetector with green color selectivity. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 213301	3.4	22
212	Enhanced light extraction efficiency in organic light emitting diodes using a tetragonal photonic crystal with hydrogen silsesquioxane. <i>Optics Letters</i> , <b>2014</b> , 39, 5901-4	3	14
211	Extremely Flexible Transparent Conducting Electrodes for Organic Devices. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300474	21.8	73
210	Organic Light-Emitting Diodes with 30% External Quantum Efficiency Based on a Horizontally Oriented Emitter. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3896-3900	15.6	443
209	Highly enhanced light extraction from surface plasmonic loss minimized organic light-emitting diodes. <i>Advanced Materials</i> , <b>2013</b> , 25, 3571-7	24	149
208	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> , <b>2013</b> , 23, 4105-4110	15.6	175
207	Microcavity tandem solar cells with a short circuit current higher than single cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 114, 59-64	6.4	10
206	Deep-blue phosphorescence from perfluoro carbonyl-substituted iridium complexes. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14321-8	16.4	220
205	Molecular alignment and nanostructure of 1,4,5,8,9,11-hexaazatriphenylene-hexanitrile (HATCN) thin films on organic surfaces. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 1260-1264	7.1	11
204	High performance organic planar heterojunction solar cells by controlling the molecular orientation. <i>Current Applied Physics</i> , <b>2013</b> , 13, 7-11	2.6	18
203	Degradation mechanism of green phosphorescent dye doped polymer light-emitting diodes. <i>Thin Solid Films</i> , <b>2013</b> , 531, 419-423	2.2	
202	High efficiency and non-color-changing orange organic light emitting diodes with red and green emitting layers. <i>Organic Electronics</i> , <b>2013</b> , 14, 1856-1860	3.5	26
201	Optical analysis of organic photovoltaic cells incorporating graphene as a transparent electrode. <i>Organic Electronics</i> , <b>2013</b> , 14, 1496-1503	3.5	11

200	Near infra-red transparent Mo-doped In <sub>2</sub> O <sub>3</sub> by hetero targets sputtering for phosphorescent organic light emitting diodes. <i>Organic Electronics</i> , <b>2013</b> , 14, 926-933	3.5	14
199	Interfacial Doping for Efficient Charge Injection in Organic Semiconductors <b>2013</b> , 91-118		
198	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> , <b>2013</b> , 49, 4664-6	5.8	118
197	Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4914-4920	15.6	360
196	An efficient interconnection unit composed of electron-transporting layer/metal/p-doped hole-transporting layer for tandem organic photovoltaics. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 203903	3.4	13
195	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> , <b>2013</b> , 9, 3858-63	11	70
194	Electron injection and transport for high-performance inverted organic light-emitting diodes. <i>Journal of Information Display</i> , <b>2013</b> , 14, 39-48	4.1	19
193	Doping-concentration-dependent hole mobility in a ReO <sub>3</sub> doped organic semiconductor of 4,4',4'-tris(N-(2-naphthyl)-N-phenyl-amino)-triphenylamine. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 183301	3.4	19
192	Efficient triplet harvesting by fluorescent molecules through exciplexes for high efficiency organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 153306	3.4	89
191	Organic Leds: Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency (Adv. Funct. Mater. 39/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4913-4913	15.6	1
190	An organic p-n junction as an efficient and cathode independent electron injection layer for flexible inverted organic light emitting diodes. <i>Organic Electronics</i> , <b>2012</b> , 13, 545-549	3.5	22
189	High contrast flexible organic light emitting diodes under ambient light without sacrificing luminous efficiency. <i>Organic Electronics</i> , <b>2012</b> , 13, 826-832	3.5	21
188	Outcoupling efficiency of organic light emitting diodes employing graphene as the anode. <i>Organic Electronics</i> , <b>2012</b> , 13, 1081-1085	3.5	18
187	Low-Temperature Organic (CYTOP) Passivation for Improvement of Electric Characteristics and Reliability in IGZO TFTs. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 381-383	4.4	58
186	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> , <b>2012</b> , 22, 855-860	15.6	82
185	Organic Light-Emitting Diodes: The Mechanism of Charge Generation in Charge-Generation Units Composed of p-Doped Hole-Transporting Layer/HATCN/n-Doped Electron-Transporting Layers (Adv. Funct. Mater. 4/2012). <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 879-879	15.6	
184	Synthesis and characterization of new blue light emitting iridium complexes containing a trimethylsilyl group. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22721		29
183	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> , <b>2012</b> , 22, 15262		57

182	Small molecular host based on carbazole and m-terphenyl derivatives for efficient solution processed organic light-emitting diodes. <i>Synthetic Metals</i> , <b>2012</b> , 162, 303-308	3.6	6
181	High performance inkjet printed phosphorescent organic light emitting diodes based on small molecules commonly used in vacuum processes. <i>Thin Solid Films</i> , <b>2012</b> , 520, 6954-6958	2.2	29
180	Pyrene end-capped oligothiophene derivatives for organic thin-film transistors and organic solar cells. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 1813	3.6	31
179	Enhancement of near-infrared absorption with high fill factor in lead phthalocyanine-based organic solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9077		51
178	Determination of the interface energy level alignment of a doped organic hetero-junction using capacitance-voltage measurements. <i>Organic Electronics</i> , <b>2012</b> , 13, 2346-2351	3.5	34
177	Transparent indium oxide films doped with high Lewis acid strength Ge dopant for phosphorescent organic light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 325102	3	13
176	Synthesis and characterization of a new iridium(III) complex with bulky trimethylsilylylene and applications for efficient yellow-green emitting phosphorescent organic light emitting diodes. <i>Dyes and Pigments</i> , <b>2012</b> , 92, 603-609	4.6	26
175	Interfacial doping for efficient charge injection in organic semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1399-1413	1.6	41
174	Photoconductivity of C60 as an Origin of Bias-Dependent Photocurrent in Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3089-3094	15.6	39
173	Initial Growth Mode, Nanostructure, and Molecular Stacking of a ZnPc:C60 Bulk Heterojunction. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4244-4248	15.6	13
172	High efficiency and high photo-stability zinc-phthalocyanine based planar heterojunction solar cells with a double interfacial layer. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 113301	3.4	13
171	Rhenium oxide as an efficient p-dopant to overcome S-shaped current density-voltage curves in organic photovoltaics with a deep highest occupied molecular orbital level donor layer. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 153303	3.4	16
170	CuI interlayers in lead phthalocyanine thin films enhance near-infrared light absorption. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 263303	3.4	27
169	Surface dependent thermal evolution of the nanostructures in ultra-thin copper(II) phthalocyanine films. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8881		19
168	Transparent Ti-In-Sn-O multicomponent anodes for highly efficient phosphorescent organic light emitting diodes. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 023513	2.5	17
167	Energy transfer from exciplexes to dopants and its effect on efficiency of organic light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 124519	2.5	54
166	In situ antibody detection and charge discrimination using aqueous stable pentacene transistor biosensors. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2170-6	16.4	77
165	A high performance inverted organic light emitting diode using an electron transporting material with low energy barrier for electron injection. <i>Organic Electronics</i> , <b>2011</b> , 12, 1763-1767	3.5	65

164	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> , <b>2011</b> , 90, 139-145	4.6	34
163	Effect of passivation on the sensitivity and stability of pentacene transistor sensors in aqueous media. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4217-21	11.8	25
162	Invited paper: Nanostructures of a mixed donor and acceptor layer in organic photovoltaics. <i>Electronic Materials Letters</i> , <b>2011</b> , 7, 93-104	2.9	15
161	Synthesis and device performance of new efficient blue copolymers containing biphenylenevinylene and triphenyldiamine. <i>Macromolecular Research</i> , <b>2011</b> , 19, 629-634	1.9	8
160	Reduction of Collection Efficiency of Charge Carriers with Increasing Cell Size in Polymer Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 343-347	15.6	67
159	Formation of Bulk Heterojunctions by Alternative Thermal Deposition and Its Structure Analysis for High Efficiency Small Molecular Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2067-2071	15.6	28
158	Effects of Symmetry of Ir (III) Complex on the Photophysical Properties and Device Performances. <i>Molecular Crystals and Liquid Crystals</i> , <b>2011</b> , 550, 284-293	0.5	
157	Grazing Incidence Small-Angle X-ray Scattering Analysis of Initial Growth of Planar Organic Molecules Affected by Substrate Surface Energy. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 1710-1714	6.4	19
156	Flexible OLEDs and organic electronics. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 030301	1.8	26
155	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> , <b>2011</b> , 133, 1375-82	16.4	62
154	Origin of charge generation efficiency of metal oxide p-dopants in organic semiconductors. <i>Organic Electronics</i> , <b>2011</b> , 12, 950-954	3.5	42
153	Homogeneous dispersion of organic p-dopants in an organic semiconductor as an origin of high charge generation efficiency. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 173303	3.4	39
152	Large-area organic solar cells with metal subelectrode on indium tin oxide anode. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 173301	3.4	32
151	Enhancement of the short circuit current in organic photovoltaic devices with microcavity structures. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 083306	3.4	35
150	Synthesis and Characterization of Bis-Orthometalated Ir(III) Complex Consisting of Non-Carbon-Coordinating Ligand. <i>Molecular Crystals and Liquid Crystals</i> , <b>2010</b> , 531, 40/[340]-46/[346]	0.5	
149	Efficient and colour-stable hybrid white organic light-emitting diodes utilizing electron-hole balanced spacers. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 405102	3	14
148	Solution-processed photonic crystals to enhance the light outcoupling efficiency of organic light-emitting diodes. <i>Applied Optics</i> , <b>2010</b> , 49, 4024-8	0.2	18
147	Estimation of the mean emission zone in phosphorescent organic light-emitting diodes with a thin emitting layer. <i>Optics Express</i> , <b>2010</b> , 18, 16715-21	3.3	5

146	Near-IR electromer emission from new ambipolar carbazole containing phosphorescent dendrimer based organic light emitting diode. <i>Synthetic Metals</i> , <b>2010</b> , 160, 1994-1999	3.6	11
145	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> , <b>2010</b> , 12, 1272-5	6.2	80
144	Novel binaphthyl-containing bi-nuclear boron complex with low concentration quenching effect for efficient organic light-emitting diodes. <i>Chemical Communications</i> , <b>2010</b> , 46, 6512-4	5.8	59
143	Planarization of nanopatterned substrates using solution process to enhance outcoupling efficiency of organic light emitting diodes. <i>Current Applied Physics</i> , <b>2010</b> , 10, e139-e142	2.6	15
142	Outcoupling efficiency of organic light emitting diodes and the effect of ITO thickness. <i>Organic Electronics</i> , <b>2010</b> , 11, 1010-1015	3.5	100
141	Effect of host organic semiconductors on electrical doping. <i>Organic Electronics</i> , <b>2010</b> , 11, 486-489	3.5	54
140	Corrugated organic light emitting diodes for enhanced light extraction. <i>Organic Electronics</i> , <b>2010</b> , 11, 711-716	3.5	72
139	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> , <b>2010</b> , 11, 564-572	3.5	76
138	A transparent conducting oxide as an efficient middle electrode for flexible organic tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 542-546	6.4	34
137	Rapid patterning of single-wall carbon nanotubes by interlayer lithography. <i>Small</i> , <b>2010</b> , 6, 2530-4	11	18
136	High efficiency p-i-n top-emitting organic light-emitting diodes with a nearly Lambertian emission pattern. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 063114	2.5	24
135	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> , <b>2009</b> , 105, 113714	2.5	30
134	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> , <b>2009</b> , 12, J8		38
133	Real Time Investigation of the Interface between a P3HT:PCBM Layer and an Al Electrode during Thermal Annealing. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 1269-73	4.8	43
132	Excitation energy transfer in organic materials: from fundamentals to optoelectronic devices. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 1203-31	4.8	160
131	Conjugated Triphenylene Polymers for Blue OLED Devices. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 1279-83	4.8	35
130	Enhanced efficiency of dye-sensitized solar cells by UV $\lambda$ 3 treatment of TiO <sub>2</sub> layer. <i>Current Applied Physics</i> , <b>2009</b> , 9, 404-408	2.6	55
129	Electroluminescence from monolayer of quantum dots formed by multiple dip-coating processes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 803-807	1.3	4

128	The effect of Al electrodes on the nanostructure of poly(3-hexylthiophene): Fullerene solar cell blends during thermal annealing. <i>Organic Electronics</i> , <b>2009</b> , 10, 1505-1510	3.5	48
127	Thickness dependence of PL efficiency of organic thin films. <i>Chemical Physics</i> , <b>2009</b> , 355, 25-30	2.3	17
126	Substrate thermal conductivity effect on heat dissipation and lifetime improvement of organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 253302	3.4	89
125	Highly efficient orange organic light-emitting diodes using a novel iridium complex with imide group-containing ligands. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8824		46
124	Dendritic Ir(III) complexes functionalized with triphenylsilylphenyl groups: Synthesis, DFT calculation and comprehensive structure-property correlation. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8347		54
123	Effectiveness of p-dopants in an organic hole transporting material. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 123306	3.4	84
122	P-161: Effectiveness of p-Dopants in an Organic Hole Transporting Material. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 1719	0.5	2
121	35.1: Invited Paper: Electrical Doping for High Performance Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 491	0.5	1
120	Self-assembled perpendicular growth of organic nanoneedles via simple vapor-phase deposition: one-step fabrication of a superhydrophobic surface. <i>Chemical Communications</i> , <b>2008</b> , 2998-3000	5.8	34
119	Organic thin-film transistors based on 2,6-bis(2-arylvinyl)anthracene: high-performance organic semiconductors. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 2006	3.6	7
118	High-performance organic semiconductors for thin-film transistors based on 2,6-bis(2-thienylvinyl)anthracene. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2234		24
117	Transparent Conducting Indium Zinc Tin Oxide Anode for Highly Efficient Phosphorescent Organic Light Emitting Diodes. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, J1	3.9	52
116	Characteristics of Ni-Doped IZO Layers Grown on IZO Anode for Enhancing Hole Injection in OLEDs. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, J340	3.9	7
115	Highly efficient tandem p-i-n organic light-emitting diodes adopting a low temperature evaporated rhenium oxide interconnecting layer. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 103304	3.4	74
114	Ultraviolet nanoimprinted polymer nanostructure for organic light emitting diode application. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 223307	3.4	71
113	Correlation of photoluminescent quantum efficiency and device characteristics for the soluble electrophosphorescent light emitter with interfacial layers. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 024511	2.5	6
112	Investigations of electron-injection mechanisms and interfacial chemical reactions of Bphen doped with rubidium carbonate in OLEDs <b>2008</b> ,		3
111	Highly flexible, transparent, and low resistance indium zinc oxide/indium zinc oxide multilayer anode on polyethylene terephthalate substrate for flexible organic light emitting diodes. <i>Thin Solid Films</i> , <b>2008</b> , 516, 7881-7885	2.2	72

110	Synthesis and light-emitting properties of a novel $\pi$ -conjugated poly[di(p-phenyleneethynylene)-alt-(p-phenylenecyanovinylene)] containing n-octyloxy side branches. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 108, 914-922	2.9	4
109	Synthesis and characterization of novel poly(arylenevinylene) derivative. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 2009-2015	2.9	5
108	High-Efficiency Deep-Blue Light-Emitting Diodes Based on Phenylquinoline/Carbazole-Based Compounds. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3922-3930	15.6	162
107	Efficient, Color Stable White Organic Light-Emitting Diode Based on High Energy Level Yellowish-Green Dopants. <i>Advanced Materials</i> , <b>2008</b> , 20, 1957-1961	24	153
106	Iridium Complexes with Cyclometalated 2-Cycloalkenyl-Pyridine Ligands as Highly Efficient Emitters for Organic Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2008</b> , 20, 2003-2007	24	118
105	A host material containing tetraphenylsilane for phosphorescent OLEDs with high efficiency and operational stability. <i>Organic Electronics</i> , <b>2008</b> , 9, 452-460	3.5	39
104	Air stable C60 based n-type organic field effect transistor using a perfluoropolymer insulator. <i>Organic Electronics</i> , <b>2008</b> , 9, 481-486	3.5	35
103	High performance top-emitting organic light-emitting diodes with copper iodide-doped hole injection layer. <i>Organic Electronics</i> , <b>2008</b> , 9, 805-808	3.5	58
102	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> , <b>2007</b> , 19, 3673-3680	9.6	101
101	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> , <b>2007</b> , 90, 163516	3.4	37
100	Synthesis and Light-Emitting Properties of New Polyimides Containing Ethynylene Units in the Main Chain. <i>Macromolecular Materials and Engineering</i> , <b>2007</b> , 292, 844-854	3.9	6
99	High-Performance Flexible Organic Light-Emitting Diodes Using Amorphous Indium Zinc Oxide Anode. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, J75		99
98	High-quality thin-film passivation by catalyzer-enhanced chemical vapor deposition for organic light-emitting diodes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 013502	3.4	29
97	A highly efficient wide-band-gap host material for blue electrophosphorescent light-emitting devices. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 233501	3.4	46
96	Low driving voltage and high stability organic light-emitting diodes with rhenium oxide-doped hole transporting layer. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 011113	3.4	133
95	Low roll-off of efficiency at high current density in phosphorescent organic light emitting diodes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 223508	3.4	181
94	Transparent, Low Resistance, and Flexible Amorphous ZnO-Doped In <sub>2</sub> O <sub>3</sub> Anode Grown on a PES Substrate. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, J81	3.9	45
93	New host materials with high triplet energy level for blue-emitting electrophosphorescent device. <i>Synthetic Metals</i> , <b>2007</b> , 157, 743-750	3.6	35

92	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> , <b>2007</b> , 72, 6241-6	4.2	67
91	Silane- and triazine-containing hole and exciton blocking material for high-efficiency phosphorescent organic light emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3714		71
90	Direct patterning of polymer optical waveguide using liquid state UV-curable polymer. <i>Macromolecular Research</i> , <b>2006</b> , 14, 114-116	1.9	7
89	Silicon-containing dendritic tris-cyclometalated Ir(III) complex and its electrophosphorescence in a polymer host. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 4706		52
88	Tunable polymer waveguide Bragg filter fabricated by direct patterning of UV-curable polymer. <i>Optics Communications</i> , <b>2006</b> , 266, 332-335	2	5
87	Isomer Structure-Optical Property Relationships for Naphthalene-Based Poly(perfluorocyclobutyl ether)s. <i>Macromolecules</i> , <b>2005</b> , 38, 8278-8284	5.5	33
86	Structure-property relationship of fluorinated co-poly(arylene ether sulfide)s and co-poly(arylene ether sulfone)s for low-loss and low-birefringence waveguide devices. <i>Journal of Lightwave Technology</i> , <b>2005</b> , 23, 364-373	4	25
85	Color Tuning of Cyclometalated Iridium Complexes through Modification of Phenylpyrazole Derivatives and Ancillary Ligand Based on ab Initio Calculations. <i>Organometallics</i> , <b>2005</b> , 24, 1578-1585	3.8	131
84	Polymer based blue electrophosphorescent light emitting devices. <i>Current Applied Physics</i> , <b>2005</b> , 5, 309-313		13
83	White Luminescence from Polymer Thin Films Containing Excited-State Intramolecular Proton-Transfer Dyes. <i>Advanced Materials</i> , <b>2005</b> , 17, 2077-2082	24	145
82	Temperature-insensitive flexible polymer wavelength filter fabricated on polymer substrates. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 233504	3.4	13
81	Compact packaging of optical and electronic components for on-board optical interconnects. <i>IEEE Transactions on Advanced Packaging</i> , <b>2005</b> , 28, 114-120		16
80	Optical Properties of Perfluorocyclobutane Aryl Ether Polymers for Polymer Photonic Devices. <i>Macromolecules</i> , <b>2004</b> , 37, 5724-5731	5.5	37
79	All-optical polymeric interferometric wavelength converter comprising an excited state intramolecular proton transfer dye. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4221-4223	3.4	5
78	Polymeric multimode waveguide arrays for one- and two-dimensional optical interconnects <b>2004</b> , 5517, 141		
77	PLASTIC PHOTONIC CRYSTAL FIBERS DRAWN FROM STACKED CAPILLARIES. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2004</b> , 13, 519-523	0.8	0
76	Effect of Substitution of Methyl Groups on the Luminescence Performance of Ir(III) Complexes: Preparation, Structures, Electrochemistry, Photophysical Properties and Their Applications in Organic Light-Emitting Diodes (OLEDs). <i>European Journal of Inorganic Chemistry</i> , <b>2004</b> , 2004, 3415-3423	2.3	154
75	A novel spiro-functionalized polyfluorene derivative with solubilizing side chains. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1342		57



74	Polymer-Based Blue Electrophosphorescent Light-Emitting Diodes Using a Bisorthometalated Ir(III) Complex as the Triplet Emitter. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 4642-4646	9.6	80
73	Fabrication of multimode polymeric waveguides and micromirrors using deep X-ray lithography. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 798-800	2.2	14
72	Stacked polymeric multimode waveguide arrays for two-dimensional optical interconnects. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 840-844	4	21
71	Zero-birefringence photosensitive polyimides for optical waveguides. <i>Optics Letters</i> , <b>2004</b> , 29, 301-3	3	13
70	Macroporous polystyrene-supported quaternary ammonium salt catalysts for the addition of carbon dioxide to glycidyl methacrylate. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2003</b> , 79, 233-244		6
69	Synthesis of phenoxymethyl ethylene carbonate using quaternary ammonium salt catalysts grafted onto styrene-vinylbenzylchloride-montmorillonite support. <i>Korean Journal of Chemical Engineering</i> , <b>2003</b> , 20, 71-76	2.8	6
68	Effect of Molecular Orientation of Epitaxially Grown Platinum(II) Octaethyl Porphyrin Films on the Performance of Field-Effect Transistors. <i>Advanced Materials</i> , <b>2003</b> , 15, 699-702	24	115
67	Polymer electrophosphorescent device: comparison of phosphorescent dye doped and coordinated systems. <i>Optical Materials</i> , <b>2003</b> , 21, 119-123	3.3	51
66	Optical and electroluminescent properties of a new green emitting Ir(III) complex. <i>Optical Materials</i> , <b>2003</b> , 21, 143-146	3.3	21
65	Hydrolysis and condensation of fluorine containing organosilicon. <i>Optical Materials</i> , <b>2003</b> , 21, 445-450	3.3	2
64	All-optical switch and modulator using photochromic dye doped polymer waveguides. <i>Optical Materials</i> , <b>2003</b> , 21, 543-548	3.3	44
63	Synthesis and optical properties of fluorinated poly(arylene ether phosphine oxide)s. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 1497-1503	2.5	18
62	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> , <b>2003</b> , 41, 3361-3374	2.5	55
61	Soluble polymer-bound quaternary ammonium salts for the addition reaction of glycidyl methacrylate with carbon dioxide. <i>Polymers for Advanced Technologies</i> , <b>2003</b> , 14, 521-528	3.2	5
60	Fluorinated poly(arylene ether sulfone)s for polymeric optical waveguide devices. <i>Polymer</i> , <b>2003</b> , 44, 4189-4195	3.9	37
59	Energy transfer and device performance in phosphorescent dye doped polymer light emitting diodes. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 2853	3.9	202
58	Organic field-effect transistors by a wet-transferring method. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1243-1245	4.4	36
57	Zero-birefringent polyimide for polymer optical waveguide <b>2003</b> ,		3

56	Low-loss, high-bandwidth graded-index plastic optical fiber fabricated by the centrifugal deposition method. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4645-4647	3.4	28
55	Adhesion properties of 12FPMDA-based polyimides containing a trifluoromethylphenyl moiety. <i>Journal of Adhesion Science and Technology</i> , <b>2003</b> , 17, 1669-1684	2	3
54	Simple and Low Cost Fabrication of Thermally Stable Polymeric Multimode Waveguides using a UV-curable Epoxy. <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, 1277-1279	1.4	58
53	Polymeric wavelength filters fabricated using holographic surface relief gratings on azobenzene-containing polymer films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3823-3825	3.4	52
52	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> , <b>2002</b> , 40, 4217-4227	2.5	49
51	Charge carrier mobility and photorefractive grating buildup in bipolar organic glasses. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 190-192	3.4	5
50	Low-loss polymer optical waveguides using fluorinated poly(arylene ether sulfides and sulfones) <b>2002</b> ,		4
49	Photoinduced supramolecular chirality in amorphous azobenzene polymer films. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 3504-5	16.4	63
48	Low-loss and thermally stable TE-mode selective polymer waveguide using photosensitive fluorinated polyimide. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 1297-1299	2.2	31
47	All-optical Mach-Zehnder modulator using a photochromic dye-doped polymer. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1710-1712	3.4	47
46	All-optical polymer waveguide devices <b>2002</b> , 4905, 108		2
45	Synthesis and properties of novel electroluminescent oligomers containing carbazoylene-vinylene-sulfonylene units for a light-emitting diode. <i>Thin Solid Films</i> , <b>2001</b> , 401, 111-117 <sup>2</sup>		8
44	Synthesis and characterization of novel polyimides containing fluorine and phosphine oxide moieties. <i>Polymer</i> , <b>2001</b> , 42, 6019-6030	3.9	82
43	Highly efficient polymer phosphorescent light emitting devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2001</b> , 85, 228-231	3.1	20
42	Polymer-Layered Silicate Nanocomposite Light-Emitting Devices. <i>Advanced Materials</i> , <b>2001</b> , 13, 211-213	2.4	82
41	Addition of Carbon Dioxide to Phenylglycidyl Ether Using Polymer-Supported Quaternary Ammonium Salt Catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2001</b> , 74, 29-40		2
40	Optimized Oxygen Plasma Etching of Polycarbonate for Low-Loss Optical Waveguide Fabrication. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 3215-3219	1.4	26
39	Plastic optical amplifier using europium complex <b>2001</b> ,		5

38	Low-loss fluorinated poly(arylene ether sulfide) waveguides with high thermal stability. <i>Journal of Lightwave Technology</i> , <b>2001</b> , 19, 872-875	4	54
37	Enhanced quantum efficiency in polymer/layered silicate nanocomposite light-emitting devices. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1737-1738	3.6	6
36	Fluorinated Poly(arylene ether sulfide) for Polymeric Optical Waveguide Devices. <i>Macromolecules</i> , <b>2001</b> , 34, 7817-7821	5.5	111
35	Electrophosphorescent Light Emitting Devices Using Mixed Ligand Ir(III) Complexes. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 708, 3381		0
34	Singlet and Triplet Energy Transfer in Phosphorescent Dye Doped Polymer Light Emitting Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 708, 3401		2
33	Low-loss Polymer Optical Waveguides with High Thermal Stability. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 708, 481		1
32	Polymer Electroluminescent Devices of Poly(4,4'-triphenyl amine-diylvinylene-alt-4,4'-diphenyl-sulfone-vinylene) (PTASV). <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 349, 383-388		
31	1 $\times$ 2 all-optical switch using photochromic-doped waveguides. <i>Electronics Letters</i> , <b>2000</b> , 36, 1641	1.1	34
30	Polymer phosphorescent light-emitting devices doped with tris(2-phenylpyridine) iridium as a triplet emitter. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2280-2282	3.4	231
29	Thermally stable optical waveguide using polycarbonate <b>1999</b> , 3799, 333		3
28	High performance electro-optic polymer waveguide device. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3779-3781	3.4	26
27	Origin of direct current drift in electro-optic polymer modulator. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 2796-2798		14
26	In situ investigation of degradation in polymeric electroluminescent devices using time-resolved confocal laser scanning microscope. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 3470-3472	3.4	50
25	Polymeric 2 x 2 electrooptic switch consisting of asymmetric Y junctions and Mach-Zehnder interferometer. <i>IEEE Photonics Technology Letters</i> , <b>1997</b> , 9, 761-763	2.2	27
24	End-face scattering loss in integrated-optical waveguides. <i>Applied Optics</i> , <b>1997</b> , 36, 9021-4	1.7	8
23	Improvement of quantum efficiency in polymer electroluminescence devices by inserting pmma langmuir-blodgett films. <i>Synthetic Metals</i> , <b>1997</b> , 85, 1191-1192	3.6	5
22	Poling-induced waveguide polarizers in electrooptic polymers. <i>IEEE Photonics Technology Letters</i> , <b>1996</b> , 8, 375-377	2.2	22
21	Highly Improved Quantum Efficiency in Blend Polymer LEDs. <i>Macromolecules</i> , <b>1996</b> , 29, 165-169	5.5	88

20	TE-TM mode converter in a poled-polymer waveguide. <i>IEEE Journal of Quantum Electronics</i> , <b>1996</b> , 32, 1054-1062	2	19
19	Molecular Conformation and Application of Stereoregular PMMA Langmuir-Blodgett Films. <i>ETRI Journal</i> , <b>1996</b> , 18, 195-206	1.4	9
18	Photobleaching for the formation of nonlinear optical polymer waveguide devices. <i>Korean Journal of Chemical Engineering</i> , <b>1996</b> , 13, 187-193	2.8	3
17	Electroluminescent Behaviour in Multilayer Structure Device Using Poly(P-Phenylenevinylene) Derivative. <i>Molecular Crystals and Liquid Crystals</i> , <b>1996</b> , 280, 357-366		4
16	Photostability of Nonlinear Optical Copolymer Under Irradiation with Infrared Light. <i>Molecular Crystals and Liquid Crystals</i> , <b>1995</b> , 267, 47-52		
15	Photodegradation of poly(p - phenylenevinylene) by laser light at the peak wavelength of electroluminescence. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 3420-3422	3.4	86
14	Postphotobleaching method for the control of coupling constant in an electro-optic polymer directional coupler switch. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 763-765	3.4	16
13	Helical chain configuration of isotactic PMMA LB films observed by atomic force microscopy. <i>Synthetic Metals</i> , <b>1995</b> , 71, 2025-2026	3.6	3
12	Electroluminescence from poly(p-phenylenevinylene) with monoalkoxy substituent on the aromatic ring. <i>Synthetic Metals</i> , <b>1995</b> , 71, 2167-2169	3.6	12
11	Wavelength insensitive passive polarization converter fabricated by poled polymer waveguides. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 1821-1823	3.4	28
10	Design and Fabrication of Nonlinear Optical Polymer Waveguide Devices. <i>Molecular Crystals and Liquid Crystals</i> , <b>1995</b> , 267, 353-363		1
9	Electroluminescence Behavior in Polymer Blend of Two Luminescent Polymers. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 413, 103		2
8	Effects of Photobleaching Wavelength on The Resulting Refractive Index Profiles in Nonlinear Optical Polymeric Thin Films. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 247, 49-58		5
7	Accelerated photobleaching of nonlinear optical polymer for the formation of optical waveguide. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 3527-3529	3.4	8
6	Photochemically formed refractive index profiles in nonlinear optical polymer thin films. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 3488-3490	3.4	15
5	Transfer Characteristics of Langmuir-Blodgett Films of Stereoregular Poly(Methyl Methacrylates). <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 247, 281-291		4
4	Molecular configuration of isotactic PMMA Langmuir-Blodgett films observed by scanning tunnelling microscopy. <i>Thin Solid Films</i> , <b>1994</b> , 244, 700-704	2.2	9
3	A 1 $\mu$ m thermo-optic space switch in a polymeric planar waveguide. <i>Optics Communications</i> , <b>1994</b> , 109, 249-252	2	2

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|---|---|--------|
| 2 | Linear and Non-Linear Optical Properties of (2-Cyano-5-Methoxy-1,4-Phenylenevinylene) and Paraphenylenevinylene Copolymers. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 277, 229 | 4      |
| 1 | Hydrogen permeation studies of amorphous and crystallized Ni/Ti alloys. <i>Journal of Non-Crystalline Solids</i> , <b>1988</b> , 101, 187-197   | 3-9 19 |