

Jeong-Hwan Lee

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.

58

papers

3,743

citations

25

h-index

61

g-index

70

ext. papers

4,114

ext. citations

9.4

avg, IF

5.38

L-index

#	Paper	IF	Citations
58	Boron-Based Multi-Resonance TADF Emitter with Suppressed Intermolecular Interaction and Isomer Formation for Efficient Pure Blue OLEDs.. <i>Small</i> , 2022 , e2107574	11	5
57	Charge generation efficiency of electrically doped organic semiconductors. <i>Materials Today Energy</i> , 2021 , 21, 100709	7	
56	Managing local triplet excited states of boron-based TADF emitters for fast spin-flip process: Toward highly efficient TADF-OLEDs with low efficiency roll-off. <i>Chemical Engineering Journal</i> , 2021 , 423, 130224	14.7	9
55	Tailoring the refractive index and surface defects of CsPbBr ₃ quantum dots via alkyl cation-engineering for efficient perovskite light-emitting diodes. <i>Chemical Engineering Journal</i> , 2021 , 425, 130678	14.7	4
54	Thermal degradation of p-doped organic homojunction. <i>AIP Advances</i> , 2020 , 10, 065226	1.5	3
53	Improving Electrical Stability of a-InGaZnO Thin-Film Transistors with Thermally Deposited Self-Assembled Monolayers. <i>Electronic Materials Letters</i> , 2020 , 16, 451-456	2.9	5
52	Solution-Processed Fabrication of Light-Emitting Diodes Using CsPbBr ₃ Perovskite Nanocrystals. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11801-11810	5.6	3
51	Parylene C-AlN Multilayered Thin-Film Passivation for Organic Light-Emitting Diode Using a Single Deposition Chamber. <i>Electronic Materials Letters</i> , 2020 , 16, 466-472	2.9	6
50	Influence of indium-tin-oxide and emitting-layer thicknesses on light outcoupling of perovskite light-emitting diodes. <i>Nano Convergence</i> , 2019 , 6, 26	9.2	14
49	Perovskite Light-Emitting Diodes with Improved Outcoupling Using a High-Index Contrast Nanoarray. <i>Small</i> , 2019 , 15, e1900135	11	37
48	Analysis of the charge transfer and separation in electrically doped organic semiconductors by electron spin resonance spectroscopy. <i>Organic Electronics</i> , 2019 , 67, 242-246	3.5	5
47	Ultrafast Excitonic Behavior in Two-Dimensional Metal Semiconductor Heterostructure. <i>ACS Photonics</i> , 2019 , 6, 1379-1386	6.3	17
46	Optimal Nitrogen Incorporation in Nickel Silicide for Thermally Stable Contact Formation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 6468-6472	1.3	1
45	A strategy to boost external quantum efficiency of organic light-emitting transistors. <i>Applied Physics Letters</i> , 2019 , 115, 043301	3.4	8
44	Overlapping-Gate Organic Light-Emitting Transistors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800437	6.4	16
43	Unveiling the Role of Dopant Polarity in the Recombination and Performance of Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1800001	15.6	13
42	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

41	Hole mobility in various transition-metal-oxides doped organic semiconductor films. <i>Applied Physics Letters</i> , 2017 , 110, 053303	3.4	1
40	Charge carrier mobility in thin films of organic semiconductors by the gated van der Pauw method. <i>Nature Communications</i> , 2017 , 8, 14975	17.4	51
39	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
38	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> , 2016 , 28, 4758	24	4
37	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
36	Blue phosphorescent OLEDs with 34.1% external quantum efficiency using a low refractive index electron transporting material 2016 ,		2
35	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> , 2015 , 3, 140-140	8.1	
34	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
33	Luminescence from oriented emitting dipoles in a birefringent medium. <i>Optics Express</i> , 2015 , 23, A279-93	3.3	42
32	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
31	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
30	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
29	Vacuum nanohole array embedded phosphorescent organic light emitting diodes. <i>Scientific Reports</i> , 2015 , 5, 8685	4.9	29
28	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> , 2015 , 8, 051601	2.4	
27	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
26	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> , 2015 , 25, 342-342	15.6	1
25	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
24	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> , 2014 , 104, 073301	3.4	19

23	A fluorescent organic light-emitting diode with 30% external quantum efficiency. <i>Advanced Materials</i> , 2014 , 26, 5684-8	24	327
22	Highly efficient inverted top emitting organic light emitting diodes using a horizontally oriented green phosphorescent emitter. <i>Organic Electronics</i> , 2014 , 15, 2715-2718	3.5	6
21	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. <i>Nature Communications</i> , 2014 , 5, 4769	17.4	280
20	Langevin and Trap-Assisted Recombination in Phosphorescent Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2014 , 24, 4681-4688	15.6	120
19	Highly efficient bluish green phosphorescent organic light-emitting diodes based on heteroleptic iridium(III) complexes with phenylpyridine main skeleton. <i>Organic Electronics</i> , 2014 , 15, 1687-1694	3.5	6
18	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
17	Formation of perfect ohmic contact at indium tin oxide/N,N'Tdi(naphthalene-1-yl)-N,N'Tdiphenyl-benzidine interface using ReO ₃ . <i>Scientific Reports</i> , 2014 , 4, 3902	4.9	41
16	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
15	Highly enhanced light extraction from surface plasmonic loss minimized organic light-emitting diodes. <i>Advanced Materials</i> , 2013 , 25, 3571-7	24	149
14	Molecular alignment and nanostructure of 1,4,5,8,9,11-hexaazatriphenylene-hexanitride (HATCN) thin films on organic surfaces. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1260-1264	7.1	11
13	High performance organic planar heterojunction solar cells by controlling the molecular orientation. <i>Current Applied Physics</i> , 2013 , 13, 7-11	2.6	18
12	Optical analysis of organic photovoltaic cells incorporating graphene as a transparent electrode. <i>Organic Electronics</i> , 2013 , 14, 1496-1503	3.5	11
11	Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency. <i>Advanced Functional Materials</i> , 2013 , 23, 4914-4920	15.6	360
10	Electron injection and transport for high-performance inverted organic light-emitting diodes. <i>Journal of Information Display</i> , 2013 , 14, 39-48	4.1	19
9	Doping-concentration-dependent hole mobility in a ReO ₃ doped organic semiconductor of 4,4',4'-tris(N-(2-naphthyl)-N-phenyl-amino)-triphenylamine. <i>Applied Physics Letters</i> , 2013 , 102, 183301	3.4	19
8	Organic Leds: Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency (Adv. Funct. Mater. 39/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 4913-4913	15.6	1
7	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> , 2012 , 13, 545-549	3.5	22
6	High contrast flexible organic light emitting diodes under ambient light without sacrificing luminous efficiency. <i>Organic Electronics</i> , 2012 , 13, 826-832	3.5	21

5	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
4	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> , 2012 , 22, 879-879	15.6	
3	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
2	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
1	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