

Chang-Ki Moon

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.

50 papers	3,229 citations	26 h-index	55 g-index
55 ext. papers	3,585 ext. citations	10.4 avg, IF	5.3 L-index

#	Paper	IF	Citations
50	Crystal Facet Engineering of TiO Nanostructures for Enhancing Photoelectrochemical Water Splitting with BiVO Nanodots.. <i>Nano-Micro Letters</i> , 2022 , 14, 48	19.5	2
49	Pinpointing the origin of the increased driving voltage during prolonged operation in a phosphorescent OLED based on an exciplex host. <i>Organic Electronics</i> , 2022 , 106570	3.5	2
48	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> , 2020 , 6, 2000622	6.4	2
47	A Broadband Multiplex Living Solar Cell. <i>Nano Letters</i> , 2020 , 20, 4286-4291	11.5	8
46	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
45	Random organic nano-textured microstructures formed by photoexcitation for light extraction of blue OLEDs. <i>Organic Electronics</i> , 2020 , 87, 105892	3.5	5
44	Molecular Orientation and Emission Characteristics of Ir Complexes and Exciplex in Organic Thin Films. <i>Springer Theses</i> , 2019 ,	0.1	2
43	Analysis of the Electronic Structure and Emission Process of Exciplex in Solids. <i>Springer Theses</i> , 2019 , 59-71	0.1	
42	The Orientation of Ir Complexes Doped in Organic Amorphous Layers. <i>Springer Theses</i> , 2019 , 33-58	0.1	
41	Modeling of the Dipole Radiation in an Anisotropic Microcavity. <i>Springer Theses</i> , 2019 , 17-32	0.1	
40	Electronic Structure and Emission Process of Excited Charge Transfer States in Solids. <i>Chemistry of Materials</i> , 2018 , 30, 5648-5654	9.6	28
39	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
38	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
37	Dependence of Pt(II) based phosphorescent emitter orientation on host molecule orientation in doped organic thin films. <i>Organic Electronics</i> , 2017 , 45, 279-284	3.5	18
36	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
35	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. <i>Organic Electronics</i> , 2017 , 42, 337-342	3.5	34
34	Unraveling the orientation of phosphors doped in organic semiconducting layers. <i>Nature Communications</i> , 2017 , 8, 791	17.4	44

33	Unraveling the origin of the orientation of Ir complexes doped in organic semiconducting layers 2017 ,		1
32	Quantitative Analysis of the Efficiency of OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33010-33018	22	33
31	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
30	Crystal Organic Light-Emitting Diodes with Perfectly Oriented Non-Doped Pt-Based Emitting Layer. <i>Advanced Materials</i> , 2016 , 28, 2526-32	24	168
29	Efficient Vacuum-Deposited Ternary Organic Solar Cells with Broad Absorption, Energy Transfer, and Enhanced Hole Mobility. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1214-9	9.5	21
28	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
27	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
26	N-Type Molecular Doping in Organic Semiconductors: Formation and Dissociation Efficiencies of a Charge Transfer Complex. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9475-9481	3.8	23
25	Blue phosphorescent OLEDs with 34.1% external quantum efficiency using a low refractive index electron transporting material 2016 ,		2
24	Synthesis and characterization of highly efficient blue Ir(III) complexes by tailoring β -diketonate ancillary ligand for highly efficient PhOLED applications. <i>Organic Electronics</i> , 2016 , 39, 91-99	3.5	11
23	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
22	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
21	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	
20	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
19	Efficient Vacuum-Deposited Tandem Organic Solar Cells with Fill Factors Higher Than Single-Junction Subcells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500228	21.8	10
18	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. <i>Chemistry of Materials</i> , 2015 , 27, 2767-2769	9.6	64
17	Luminescence from oriented emitting dipoles in a birefringent medium. <i>Optics Express</i> , 2015 , 23, A279-93	3.3	42
16	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> , 2015 , 3, 846-846	8.1	1

15	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
14	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
13	Vacuum nanohole array embedded phosphorescent organic light emitting diodes. <i>Scientific Reports</i> , 2015 , 5, 8685	4.9	29
12	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
11	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
10	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
9	A fluorescent organic light-emitting diode with 30% external quantum efficiency. <i>Advanced Materials</i> , 2014 , 26, 5684-8	24	327
8	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
7	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. <i>Nature Communications</i> , 2014 , 5, 4769	17.4	280
6	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
5	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
4	Formation of perfect ohmic contact at indium tin oxide/N,N'-di(naphthalene-1-yl)-N,N'-diphenyl-benzidine interface using ReO ₃ . <i>Scientific Reports</i> , 2014 , 4, 3902	4.9	41
3	A high performance semitransparent organic photodetector with green color selectivity. <i>Applied Physics Letters</i> , 2014 , 105, 213301	3.4	22
2	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
1	Highly enhanced light extraction from surface plasmonic loss minimized organic light-emitting diodes. <i>Advanced Materials</i> , 2013 , 25, 3571-7	24	149