

# Chang-Ki Moon

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,929  
citations

186265

28  
h-index

206112

48  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Light-Emitting Diodes with 30% External Quantum Efficiency Based on a Horizontally Oriented Emitter. <i>Advanced Functional Materials</i> , 2013, 23, 3896-3900.	14.9	495
2	A Fluorescent Organic Light-Emitting Diode with 30% External Quantum Efficiency. <i>Advanced Materials</i> , 2014, 26, 5684-5688.	21.0	397
3	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. <i>Nature Communications</i> , 2014, 5, 4769.	12.8	337
4	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, 3844-3847.	21.0	316
5	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, 4730-4734.	21.0	241
6	Sky-Blue Phosphorescent OLEDs with 34.1% External Quantum Efficiency Using a Low Refractive Index Electron Transporting Layer. <i>Advanced Materials</i> , 2016, 28, 4920-4925.	21.0	238
7	Crystal Organic Light-Emitting Diodes with Perfectly Oriented Non-Doped Pt-Based Emitting Layer. <i>Advanced Materials</i> , 2016, 28, 2526-2532.	21.0	206
8	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.	6.7	198
9	Highly Enhanced Light Extraction from Surface Plasmonic Loss Minimized Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2013, 25, 3571-3577.	21.0	166
10	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.	21.0	131
11	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. <i>Nature Communications</i> , 2018, 9, 3207.	12.8	96
12	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> , 2016, 8, 9806-9810.	8.0	88
13	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. <i>Chemistry of Materials</i> , 2015, 27, 2767-2769.	6.7	77
14	Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex. <i>Advanced Optical Materials</i> , 2015, 3, 895-899.	7.3	73
15	External Quantum Efficiency Exceeding 24% with CIE <sub>y</sub> 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.	21.0	72
16	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.	7.3	59
17	Unraveling the orientation of phosphors doped in organic semiconducting layers. <i>Nature Communications</i> , 2017, 8, 791.	12.8	53
18	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.	7.3	52

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19	Luminescence from oriented emitting dipoles in a birefringent medium. <i>Optics Express</i> , 2015, 23, A279.	3.4	51
20	Highly efficient non-doped deep blue fluorescent emitters with horizontal emitting dipoles using interconnecting units between chromophores. <i>Chemical Communications</i> , 2016, 52, 10956-10959.	4.1	48
21	Formation of perfect ohmic contact at indium tin oxide/N,N'-di(naphthalene-1-yl)-N,N'-diphenyl-benzidine interface using ReO <sub>3</sub> . <i>Scientific Reports</i> , 2014, 4, 3902.	3.3	47
22	Crystal Facet Engineering of TiO <sub>2</sub> Nanostructures for Enhancing Photoelectrochemical Water Splitting with BiVO <sub>4</sub> Nanodots. <i>Nano-Micro Letters</i> , 2022, 14, 48.	27.0	44
23	Relationship between molecular structure and dipole orientation of thermally activated delayed fluorescent emitters. <i>Organic Electronics</i> , 2017, 42, 337-342.	2.6	39
24	Electronic Structure and Emission Process of Excited Charge Transfer States in Solids. <i>Chemistry of Materials</i> , 2018, 30, 5648-5654.	6.7	39
25	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.	2.6	36
26	Vacuum Nanohole Array Embedded Phosphorescent Organic Light Emitting Diodes. <i>Scientific Reports</i> , 2015, 5, 8685.	3.3	33
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.	7.3	33
28	Quantitative Analysis of the Efficiency of OLEDs. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 33010-33018.	8.0	30
29	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.	2.6	28
30	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.	3.1	27
31	Efficient Vacuum-Deposited Ternary Organic Solar Cells with Broad Absorption, Energy Transfer, and Enhanced Hole Mobility. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1214-1219.	8.0	26
32	A high performance semitransparent organic photodetector with green color selectivity. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	25
33	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.	3.3	21
34	A Broadband Multiplex Living Solar Cell. <i>Nano Letters</i> , 2020, 20, 4286-4291.	9.1	17
35	Synthesis and characterization of highly efficient blue Ir(III) complexes by tailoring $\beta^2$ -diketonate ancillary ligand for highly efficient PhOLED applications. <i>Organic Electronics</i> , 2016, 39, 91-99.	2.6	13
36	Random organic nano-textured microstructures formed by photoexcitation for light extraction of blue OLEDs. <i>Organic Electronics</i> , 2020, 87, 105892.	2.6	13

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37	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, 108, 106570.	2.6	11
38	Efficient Vacuum-Deposited Tandem Organic Solar Cells with Fill Factors Higher Than Single-Junction Subcells. <i>Advanced Energy Materials</i> , 2015, 5, 1500228.	19.5	10
39	Highly efficient inverted top emitting organic light emitting diodes using a horizontally oriented green phosphorescent emitter. <i>Organic Electronics</i> , 2014, 15, 2715-2718.	2.6	9
40	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.	2.6	9
41	Phosphorescent OLEDs: Sky-Blue Phosphorescent OLEDs with 34.1% External Quantum Efficiency Using a Low Refractive Index Electron Transporting Layer ( <i>Adv. Mater.</i> 24/2016). <i>Advanced Materials</i> , 2016, 28, 4758-4758.	21.0	6
42	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.	5.1	5
43	Molecular Orientation and Emission Characteristics of Ir Complexes and Exciplex in Organic Thin Films. <i>Springer Theses</i> , 2019, , .	0.1	4
44	Blue phosphorescent OLEDs with 34.1% external quantum efficiency using a low refractive index electron transporting material. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
45	Triplet Harvesting: Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex ( <i>Advanced Optical Materials</i> 7/2015). <i>Advanced Optical Materials</i> , 2015, 3, 846-846.	7.3	1
46	Unraveling the origin of the orientation of Ir complexes doped in organic semiconducting layers. , 2017, , .		1
47	A Fluorescent Organic Light Emitting Diode with 100% Internal Quantum Efficiency. , 2014, , .		1
48	PhOLEDs: 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> ) Tj ETQq0 0 0 rgBT7/0verlock010 Tf 50 2		
49	Analysis of the Electronic Structure and Emission Process of Exciplex in Solids. <i>Springer Theses</i> , 2019, , 59-71.	0.1	0
50	The Orientation of Ir Complexes Doped in Organic Amorphous Layers. <i>Springer Theses</i> , 2019, , 33-58.	0.1	0
51	Modeling of the Dipole Radiation in an Anisotropic Microcavity. <i>Springer Theses</i> , 2019, , 17-32.	0.1	0