

Kwon-Hyeon Kim

List of Publications by Citations

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36
papers

3,325
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39
ext. papers

3,704
ext. citations

12.2
avg, IF

5.56
L-index

#	Paper	IF	Citations
36	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
35	Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency. <i>Advanced Functional Materials</i> , 2013 , 23, 4914-4920	15.6	360
34	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. <i>Nature Communications</i> , 2014 , 5, 4769	17.4	280
33	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
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	Low Roll-Off and High Efficiency Orange Organic Light Emitting Diodes with Controlled Co-Doping of Green and Red Phosphorescent Dopants in an Exciplex Forming Co-Host. <i>Advanced Functional Materials</i> , 2013 , 23, 4105-4110	15.6	175
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	Origin and Control of Orientation of Phosphorescent and TADF Dyes for High-Efficiency OLEDs. <i>Advanced Materials</i> , 2018 , 30, e1705600	24	155
28	Langevin and Trap-Assisted Recombination in Phosphorescent Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2014 , 24, 4681-4688	15.6	120
27	Boosting Triplet Harvest by Reducing Nonradiative Transition of Exciplex toward Fluorescent Organic Light-Emitting Diodes with 100% Internal Quantum Efficiency. <i>Chemistry of Materials</i> , 2016 , 28, 1936-1941	9.6	107
26	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
25	Efficient triplet harvesting by fluorescent molecules through exciplexes for high efficiency organic light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 153306	3.4	89
24	Design of Heteroleptic Ir Complexes with Horizontal Emitting Dipoles for Highly Efficient Organic Light-Emitting Diodes with an External Quantum Efficiency of 38%. <i>Chemistry of Materials</i> , 2016 , 28, 7505-7510	9.6	85
23	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
22	Extremely Flexible Transparent Conducting Electrodes for Organic Devices. <i>Advanced Energy Materials</i> , 2014 , 4, 1300474	21.8	73
21	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
20	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

19	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. <i>Chemistry of Materials</i> , 2015 , 27, 2767-2769	9.6	64
18	Highly Efficient, Conventional, Fluorescent Organic Light-Emitting Diodes with Extended Lifetime. <i>Advanced Materials</i> , 2017 , 29, 1702159	24	60
17	An Exciplex Host for Deep-Blue Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37883-37887	9.5	45
16	Unraveling the orientation of phosphors doped in organic semiconducting layers. <i>Nature Communications</i> , 2017 , 8, 791	17.4	44
15	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
14	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1027-1032	7.1	42
13	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
12	High-Quality White OLEDs with Comparable Efficiencies to LEDs. <i>Advanced Optical Materials</i> , 2018 , 6, 1701349	8.1	37
11	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
10	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
9	Quantitative Analysis of the Efficiency of OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33010-33018	3.3	22
8	Routes for Efficiency Enhancement in Fluorescent TADF Exciplex Host OLEDs Gained from an Electro-Optical Device Model. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900804	6.4	14
7	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
6	Deep-Blue Phosphorescent Emitters with Phosphoryl Groups for Organic Light-Emitting Diodes by Solution Processes. <i>Israel Journal of Chemistry</i> , 2014 , 54, 993-998	3.4	6
5	Emitting dipole orientation and molecular orientation of homoleptic Ir(III) complexes. <i>Organic Electronics</i> , 2020 , 82, 105715	3.5	6
4	Flexible Electronics: Extremely Flexible Transparent Conducting Electrodes for Organic Devices (Adv. Energy Mater. 1/2014). <i>Advanced Energy Materials</i> , 2014 , 4,	21.8	4
3	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
2	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

- 1 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). *Advanced Optical Materials*, **2015**, 3, 140-140 8.1