Kwon-Hyeon Kim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3747113/publications.pdf

Version: 2024-02-01

36 papers	4,060 citations	185998 28 h-index	315357 38 g-index
39 all docs	39 docs citations	39 times ranked	2841 citing authors

#	Article	IF	Citations
1	Organic Lightâ€Emitting Diodes with 30% External Quantum Efficiency Based on a Horizontally Oriented Emitter. Advanced Functional Materials, 2013, 23, 3896-3900.	7.8	495
2	Exciplexâ€Forming Coâ€host for Organic Lightâ€Emitting Diodes with Ultimate Efficiency. Advanced Functional Materials, 2013, 23, 4914-4920.	7.8	421
3	Phosphorescent dye-based supramolecules for high-efficiency organic light-emitting diodes. Nature Communications, 2014, 5, 4769.	5.8	337
4	Highly Efficient Organic Lightâ€Emitting Diodes with Phosphorescent Emitters Having High Quantum Yield and Horizontal Orientation of Transition Dipole Moments. Advanced Materials, 2014, 26, 3844-3847.	11.1	316
5	Origin and Control of Orientation of Phosphorescent and TADF Dyes for Highâ€Efficiency OLEDs. Advanced Materials, 2018, 30, e1705600.	11.1	264
6	Crystal Organic Lightâ€Emitting Diodes with Perfectly Oriented Nonâ€Doped Ptâ€Based Emitting Layer. Advanced Materials, 2016, 28, 2526-2532.	11.1	206
7	Thermally Activated Delayed Fluorescence from Azasiline Based Intramolecular Charge-Transfer Emitter (DTPDDA) and a Highly Efficient Blue Light Emitting Diode. Chemistry of Materials, 2015, 27, 6675-6681.	3.2	198
8	Low Rollâ€Off and High Efficiency Orange Organic Light Emitting Diodes with Controlled Coâ€Doping of Green and Red Phosphorescent Dopants in an Exciplex Forming Coâ€Host. Advanced Functional Materials, 2013, 23, 4105-4110.	7.8	196
9	Langevin and Trapâ€Assisted Recombination in Phosphorescent Organic Light Emitting Diodes. Advanced Functional Materials, 2014, 24, 4681-4688.	7.8	153
10	Boosting Triplet Harvest by Reducing Nonradiative Transition of Exciplex toward Fluorescent Organic Light-Emitting Diodes with 100% Internal Quantum Efficiency. Chemistry of Materials, 2016, 28, 1936-1941.	3.2	129
11	Exciplex-Forming Co-Host-Based Red Phosphorescent Organic Light-Emitting Diodes with Long Operational Stability and High Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 3277-3281.	4.0	124
12	Design of Heteroleptic Ir Complexes with Horizontal Emitting Dipoles for Highly Efficient Organic Light-Emitting Diodes with an External Quantum Efficiency of 38%. Chemistry of Materials, 2016, 28, 7505-7510.	3.2	109
13	Efficient triplet harvesting by fluorescent molecules through exciplexes for high efficiency organic light-emitting diodes. Applied Physics Letters, 2013, 102, .	1.5	106
14	Extremely Flexible Transparent Conducting Electrodes for Organic Devices. Advanced Energy Materials, 2014, 4, 1300474.	10.2	97
15	Lensfree OLEDs with over 50% external quantum efficiency via external scattering and horizontally oriented emitters. Nature Communications, 2018, 9, 3207.	5.8	96
16	Highly Efficient Sky-Blue Fluorescent Organic Light Emitting Diode Based on Mixed Cohost System for Thermally Activated Delayed Fluorescence Emitter (2CzPN). ACS Applied Materials & Interfaces, 2016, 8, 9806-9810.	4.0	88
17	Highly Efficient, Conventional, Fluorescent Organic Lightâ€Emitting Diodes with Extended Lifetime. Advanced Materials, 2017, 29, 1702159.	11.1	79
18	Influence of Host Molecules on Emitting Dipole Orientation of Phosphorescent Iridium Complexes. Chemistry of Materials, 2015, 27, 2767-2769.	3.2	77

#	Article	IF	Citations
19	Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex. Advanced Optical Materials, 2015, 3, 895-899.	3.6	73
20	Harnessing Triplet Excited States by Fluorescent Dopant Utilizing Codoped Phosphorescent Dopant in Exciplex Host for Efficient Fluorescent Organic Light Emitting Diodes. Advanced Optical Materials, 2017, 5, 1600749.	3.6	59
21	An Exciplex Host for Deep-Blue Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 37883-37887.	4.0	56
22	Unraveling the orientation of phosphors doped in organic semiconducting layers. Nature Communications, 2017, 8, 791.	5.8	53
23	Controlling Emitting Dipole Orientation with Methyl Substituents on Main Ligand of Iridium Complexes for Highly Efficient Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2015, 3, 1191-1196.	3.6	52
24	Highâ€Quality White OLEDs with Comparable Efficiencies to LEDs. Advanced Optical Materials, 2018, 6, 1701349.	3.6	52
25	Highly efficient non-doped deep blue fluorescent emitters with horizontal emitting dipoles using interconnecting units between chromophores. Chemical Communications, 2016, 52, 10956-10959.	2.2	48
26	Azasiline-based thermally activated delayed fluorescence emitters for blue organic light emitting diodes. Journal of Materials Chemistry C, 2017, 5, 1027-1032.	2.7	46
27	Finely Tuned Blue Iridium Complexes with Varying Horizontal Emission Dipole Ratios and Quantum Yields for Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2015, 3, 211-220.	3.6	33
28	Quantitative Analysis of the Efficiency of OLEDs. ACS Applied Materials & Interfaces, 2016, 8, 33010-33018.	4.0	30
29	Routes for Efficiency Enhancement in Fluorescent TADF Exciplex Host OLEDs Gained from an Electroâ€Optical Device Model. Advanced Electronic Materials, 2020, 6, 1900804.	2.6	20
30	Unveiling the Role of Dopant Polarity in the Recombination and Performance of Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2018, 28, 1800001.	7.8	18
31	Emitting dipole orientation and molecular orientation of homoleptic Ir(III) complexes. Organic Electronics, 2020, 82, 105715.	1.4	10
32	Deepâ€Blue Phosphorescent Emitters with Phosphoryl Groups for Organic Lightâ€Emitting Diodes by Solution Processes. Israel Journal of Chemistry, 2014, 54, 993-998.	1.0	6
33	Flexible Electronics: Extremely Flexible Transparent Conducting Electrodes for Organic Devices (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5	10.2	4
34	Organic Leds: Exciplex-Forming Co-host for Organic Light-Emitting Diodes with Ultimate Efficiency (Adv. Funct. Mater. 39/2013). Advanced Functional Materials, 2013, 23, 4913-4913.	7.8	1
35	Triplet Harvesting: Triplet Harvesting by a Conventional Fluorescent Emitter Using Reverse Intersystem Crossing of Host Triplet Exciplex (Advanced Optical Materials 7/2015). Advanced Optical Materials, 2015, 3, 846-846.	3.6	1
36	PhOLEDs: Finely Tuned Blue Iridium Complexes with Varying Horizontal Emission Dipole Ratios and Quantum Yields for Phosphorescent Organic Light-Emitting Diodes (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	3.6	0