Yong Hyun Kim

List of Publications by Year
in descending order

63 papers	2,430 citations	430874 18 h-index	197818 49 g-index
64 all docs	64 docs citations	64 times ranked	3906 citing authors

#	Article	IF	Citations
1	Cathode interfacial engineering using stearic-acid-mediated polyethylenimine ethoxylated for high-performance solution-processed organic light-emitting diodes. Chemical Engineering Journal, 2022, 427, 130890.	12.7	5
2	Multiple functionalities of highly conductive and flexible photo- and thermal-responsive colorimetric cellulose films. Materials Research Letters, 2022, 10, 36-44.	8.7	5
3	Highly stretchable, robust, and conductive lab-synthesized PEDOT:PSS conductive polymer/hydroxyethyl cellulose films for on-skin health-monitoring devices. Organic Electronics, 2022, 105, 106499.	2.6	9
4	Highly stretchable and robust transparent conductive polymer composites for multifunctional healthcare monitoring. Science and Technology of Advanced Materials, 2022, 23, 332-340.	6.1	5
5	Efficient tandem organic light-emitting diode with fluorinated hexaazatrinaphthylene charge generation layer. Journal of Information Display, 2022, 23, 259-266.	4.0	6
6	Highly stretchable and mechanically robust silver nanowires on surface-functionalized wavy elastomers for wearable healthcare electronics. Organic Electronics, 2022, 108, 106584.	2.6	4
7	Curvature effects of electron-donating polymers on the device performance of non-fullerene organic solar cells. Journal of Power Sources, 2021, 482, 229045.	7.8	12
8	Fractional structured molybdenum oxide catalyst as counter electrodes of all-solid-state fiber dye-sensitized solar cells. Journal of Colloid and Interface Science, 2021, 584, 520-527.	9.4	16
9	Solution-processed colored electrodes for ITO-free blue phosphorescent organic light-emitting diodes. Journal of Information Display, 2021, 22, 21-30.	4.0	4
10	Multifunctional Stretchable Organicâ€“Inorganic Hybrid Electronics with Transparent Conductive Silver Nanowire/Biopolymer Hybrid Films. Advanced Optical Materials, 2021, 9, 2002041.	7.3	18
11	Enhanced flexible optoelectronic devices by controlling the wettability of an organic bifacial interlayer. Communications Materials, 2021, 2, .	6.9	13
12	Effect of the Hole Injection Layer Conductivity on the Performance of Polymer Light-Emitting Diodes. Electronic Materials Letters, 2021, 17, 331-339.	2.2	3
13	Transparent Organic Lightâ€Emitting Diodes: Advances, Prospects, and Challenges. Advanced Optical Materials, 2021, 9, 2002040.	7.3	30
14	Mitigating the Undesirable Chemical Reaction between Organic Molecules for Highly Efficient Flexible Organic Photovoltaics. Advanced Science, 2021, 8, 2100865.	11.2	15
15	Conductive PEDOT:PSS on surface-functionalized chitosan biopolymers for stretchable skin-like electronics. Organic Electronics, 2021, 94, 106165.	2.6	9
16	Rising advancements in the application of PEDOT:PSS as a prosperous transparent and flexible electrode material for solution-processed organic electronics. Journal of Information Display, 2020, 21, 71-91.	4.0	46
17	Efficient solution processed hybrid white organic light-emitting diodes based on a blue thermally activated delayed fluorescence emitter. Thin Solid Films, 2020, 695, 137753.	1.8	8
18	Preparation of various morphological films at nanoscale by phase separation method. Molecular Crystals and Liquid Crystals, 2020, 705, 127-134.	0.9	0

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19	Dye-doped poly(3,4-Ethylenedioxythiophene)-Poly(Styrenesulfonate) electrodes for the application in organic light-emitting diodes. Thin Solid Films, 2020, 707, 138078.	1.8	6
20	Enhanced Light Outcoupling in Organic Light-Emitting Diodes Using Phase Separated Polymer Films. Electronic Materials Letters, 2020, 16, 363-368.	2.2	6
21	Enhancement of spectral stability and outcoupling efficiency in organic light-emitting diodes with breath figure patterned microlens array films. Optical Materials, 2019, 96, 109262.	3.6	6
22	Enhancement of Light Extraction from Organic Light-Emitting Diodes by SiO₂ Nanoparticle-Embedded Phase Separated PAA/PI Polymer Blends. Molecular Crystals and Liquid Crystals, 2019, 686, 55-62.	0.9	6
23	Generating semi-metallic conductivity in polymers by laser-driven nanostructural reorganization. Materials Horizons, 2019, 6, 2143-2151.	12.2	21
24	Formation of nanopore and nanopillar patterned polymer films from mixed PAA-PI solutions by phase separation method. Molecular Crystals and Liquid Crystals, 2019, 679, 80-86.	0.9	3
25	Outcoupling-enhanced organic light-emitting diodes using simple phase-separated polymer films. Optik, 2019, 192, 162944.	2.9	4
26	Transparent conductive hybrid thin-films based on copper-mesh/conductive polymer for ITO-Free organic light-emitting diodes. Organic Electronics, 2019, 73, 13-17.	2.6	14
27	Highly efficient solution-processed blue organic light-emitting diodes based on thermally activated delayed fluorescence emitters with spiroacridine donor. Journal of Industrial and Engineering Chemistry, 2019, 78, 265-270.	5.8	14
28	Solution-Processed Semitransparent Inverted Organic Solar Cells from a Transparent Conductive Polymer Electrode. ECS Journal of Solid State Science and Technology, 2019, 8, Q32-Q37.	1.8	17
29	Simultaneously enhanced optical, electrical, and mechanical properties of highly stretchable transparent silver nanowire electrodes using organic surface modifier. Science and Technology of Advanced Materials, 2019, 20, 116-123.	6.1	15
30	High performance electrochromic devices based on WO3TiO2 nanoparticles synthesized by flame spray pyrolysis. Optical Materials, 2019, 89, 559-562.	3.6	19
31	The role of cation and anion dopant incorporated into a ZnO electron transporting layer for polymer bulk heterojunction solar cells. RSC Advances, 2019, 9, 37714-37723.	3.6	5
32	Effect of Laser-Induced Direct Micropatterning on Polymer Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 47143-47152.	8.0	10
33	Surface-functionalized silver nanowires on chitosan biopolymers for highly robust and stretchable transparent conducting films. Materials Research Letters, 2019, 7, 124-130.	8.7	18
34	Fine control of optical scattering characteristics of porous polymer light-extraction layer for organic light-emitting diodes. Organic Electronics, 2019, 67, 79-88.	2.6	19
35	Enhanced outcoupling in down-conversion white organic light-emitting diodes using imprinted microlens array films with breath figure patterns. Science and Technology of Advanced Materials, 2019, 20, 35-41.	6.1	23
36	Lithium Nickel Manganese Oxide-Carbon Composite Nanoparticles Synthesized By a Flame Spray Pyrolysis Process. ECS Meeting Abstracts, 2019, , .	0.0	0

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37	Improved light outcoupling efficiency in organic light-emitting diodes with nanoparticle-embedded charge transport layers. Organic Electronics, 2018, 54, 204-208.	2.6	7
38	Highly Enhanced Light-Outcoupling Efficiency in ITO-Free Organic Light-Emitting Diodes Using Surface Nanostructure Embedded High-Refractive Index Polymers. ACS Applied Materials & Interfaces, 2018, 10, 985-991.	8.0	42
39	High performance ITO-free white organic light-emitting diodes using highly conductive PEDOT:PSS transparent electrodes. Synthetic Metals, 2018, 242, 99-102.	3.9	13
40	Fabrication of the dispersed hollow polymer scattering layer for enhancing the light out-coupling of organic light-emitting diodes. Molecular Crystals and Liquid Crystals, 2018, 663, 182-189.	0.9	3
41	Enhanced light-outcoupling in organic light-emitting diodes through a coated scattering layer based on porous polymer films. Organic Electronics, 2017, 47, 117-125.	2.6	22
42	Pâ€181: Highly Efficient OLED Panels Based on Coated Porous Polymer Film as the Lightâ€Extraction Layer. Digest of Technical Papers SID International Symposium, 2017, 48, 1953-1956.	0.3	0
43	Analysis of a commercial-scale photovoltaics system performance and economic feasibility. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	7
44	Enhanced electrical properties of PEDOT:PSS films using solvent treatment and its application to ITO-free organic light-emitting diodes. Journal of Luminescence, 2017, 187, 221-226.	3.1	23
45	Efficient ITO-free organic light-emitting diodes comprising PEDOT:PSS transparent electrodes optimized with 2-ethoxyethanol and post treatment. Organic Electronics, 2017, 42, 348-354.	2.6	29
46	Down-conversion light outcoupling films using imprinted microlens arrays for white organic light-emitting diodes. Dyes and Pigments, 2017, 136, 92-96.	3.7	17
47	High-refractive-index polymers of poly (carbazole phenoxy-based polyurethane) for a refractive index matching film in organic light-emitting diodes. Molecular Crystals and Liquid Crystals, 2017, 659, 147-153.	0.9	1
48	Highly Conductive PEDOT:PSS Films with 1,3â€Dimethylâ€2â€Imidazolidinone as Transparent Electrodes for Organic Lightâ€Emitting Diodes. Macromolecular Rapid Communications, 2016, 37, 1427-1433.	3.9	24
49	Paper No P16: Efficient ITO-Free Organic Light-Emitting Diodes Based on Highly Conductive Polymer Electrodes. Digest of Technical Papers SID International Symposium, 2015, 46, 83-83.	0.3	0
50	Ultratransparent Polymer/Semitransparent Silver Grid Hybrid Electrodes for Smallâ€Molecule Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1401822.	19.5	26
51	Silica sodium carbonate: the most efficient catalyst for the one-pot synthesis of indeno[1,2-b]quinoline and spiro[chromene-4,3â€²-indoline]-3-carbonitriles under solvent-free condition. Monatshefte FÃ¼r Chemie, 2015, 146, 673-682.	1.8	12
52	We Want Our Photons Back: Simple Nanostructures for White Organic Lightâ€Emitting Diode Outcoupling. Advanced Functional Materials, 2014, 24, 2553-2559.	14.9	67
53	Color-stable, ITO-free white organic light-emitting diodes with enhanced efficiency using solution-processed transparent electrodes and optical outcoupling layers. Organic Electronics, 2014, 15, 1028-1034.	2.6	35
54	Effect of trap states on the electrical doping of organic semiconductors. Organic Electronics, 2014, 15, 16-21.	2.6	30

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55	Transistors: Aerosol Jet Printed, Sub-2 V Complementary Circuits Constructed fromP- andN-Type Electrolyte Gated Transistors (Adv. Mater. 41/2014). Advanced Materials, 2014, 26, 7131-7131.	21.0	2
56	Nano-particle based scattering layers for optical efficiency enhancement of organic light-emitting diodes and organic solar cells. Journal of Applied Physics, 2013, 113, .	2.5	147
57	Collecting the Electrons on nâ€Doped Fullerene C₆₀ Transparent Conductors for Allâ€Vacuumâ€Deposited Smallâ€Molecule Organic Solar Cells. Advanced Energy Materials, 2013, 3, 1551-1556.	19.5	16
58	Straight-forward control of the degree of micro-cavity effects in organic light-emitting diodes based on a thin striped metal layer. Organic Electronics, 2013, 14, 2444-2450.	2.6	9
59	Achieving High Efficiency and Improved Stability in ITOâ€Free Transparent Organic Lightâ€Emitting Diodes with Conductive Polymer Electrodes. Advanced Functional Materials, 2013, 23, 3763-3769.	14.9	123
60	Semi-transparent small molecule organic solar cells with laminated free-standing carbon nanotube top electrodes. Solar Energy Materials and Solar Cells, 2012, 96, 244-250.	6.2	100
61	Improved efficiency and lifetime in small molecule organic solar cells with optimized conductive polymer electrodes. Applied Physics Letters, 2011, 99, .	3.3	39
62	Highly Conductive PEDOT:PSS Electrode with Optimized Solvent and Thermal Postâ€Treatment for ITOâ€Free Organic Solar Cells. Advanced Functional Materials, 2011, 21, 1076-1081.	14.9	1,218
63	Light Outcoupling Using Oxide Nanostructures for Tandem White Organic Light-Emitting Diodes on Polymeric Anodes. Electronic Materials Letters, 0, , 1.	2.2	0