Kihyon Hong

List of Publications by Year
in descending order

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83 papers	2,893 citations	257357 24 h-index	175177 52 g-index
85 all docs	85 docs citations	85 times ranked	3908 citing authors

#	Article	IF	Citations
1	Electrolyteâ€Gated Transistors for Organic and Printed Electronics. Advanced Materials, 2013, 25, 1822-1846.	11.1	797
2	Review paper: Recent developments in light extraction technologies of organic light emitting diodes. Electronic Materials Letters, 2011, 7, 77-91.	1.0	162
3	Optical Properties of WO₃/Ag/WO₃ Multilayer As Transparent Cathode in Top-Emitting Organic Light Emitting Diodes. Journal of Physical Chemistry C, 2011, 115, 3453-3459.	1.5	153
4	Printed, subâ€2V ZnO Electrolyte Gated Transistors and Inverters on Plastic. Advanced Materials, 2013, 25, 3413-3418.	11.1	140
5	Performance and Stability of Aerosol-Jet-Printed Electrolyte-Gated Transistors Based on Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2013, 5, 6580-6585.	4.0	116
6	Aerosol Jet Printed, Subâ€2 V Complementary Circuits Constructed from Pâ€and Nâ€Type Electrolyte Gated Transistors. Advanced Materials, 2014, 26, 7032-7037.	11.1	90
7	Electrospun ion gel nanofibers for flexible triboelectric nanogenerator: electrochemical effect on output power. Nanoscale, 2015, 7, 16189-16194.	2.8	79
8	Aerosol Jet Printed p- and n-type Electrolyte-Gated Transistors with a Variety of Electrode Materials: Exploring Practical Routes to Printed Electronics. ACS Applied Materials & Interfaces, 2014, 6, 18704-18711.	4.0	73
9	BCP/Ag/MoO₃ Transparent Cathodes for Organic Photovoltaics. Advanced Energy Materials, 2011, 1, 1023-1028.	10.2	69
10	Physically Cross-Linked Homopolymer Ion Gels for High Performance Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2017, 9, 8813-8818.	4.0	66
11	Lightâ€Emitting Devices Based on Electrochemiluminescence Gels. Advanced Functional Materials, 2020, 30, 1907936.	7.8	62
12	Ultraâ€Sensitive and Stretchable Ionic Skins for Highâ€Precision Motion Monitoring. Advanced Functional Materials, 2021, 31, 2010199.	7.8	60
13	Enhanced Light Outâ€Coupling of Organic Lightâ€Emitting Diodes: Spontaneously Formed Nanofacetâ€Structured MgO as a Refractive Index Modulation Layer. Advanced Materials, 2010, 22, 4890-4894.	11.1	56
14	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. Scientific Reports, 2016, 6, 29805.	1.6	49
15	Semiâ€transparent plastic solar cell based on oxideâ€metalâ€oxide multilayer electrodes. Progress in Photovoltaics: Research and Applications, 2018, 26, 188-195.	4.4	36
16	Enhancement of physical properties of indium tin oxide deposited by super density arc plasma ion plating by O2 plasma treatment. Solid-State Electronics, 2008, 52, 1-6.	0.8	35
17	Charge Generation Mechanism of Metal Oxide Interconnection in Tandem Organic Light Emitting Diodes. Journal of Physical Chemistry C, 2012, 116, 6427-6433.	1.5	34
18	Ultrahigh-Mobility and Solution-Processed Inorganic P-Channel Thin-Film Transistors Based on a Transition-Metal Halide Semiconductor. ACS Applied Materials & Interfaces, 2019, 11, 40243-40251.	4.0	34

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19	Effect of N2, Ar, and O2 plasma treatments on surface properties of metals. Journal of Applied Physics, 2008, 103, .	1.1	33
20	High Capacitance, Photo-Patternable Ion Gel Gate Insulators Compatible with Vapor Deposition of Metal Gate Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 19275-19281.	4.0	30
21	Vacancy engineering of a solution processed CuI semiconductor: tuning the electrical properties of inorganic P-channel thin-film transistors. Journal of Materials Chemistry C, 2020, 8, 9608-9614.	2.7	29
22	Enhancement of electrical property by oxygen doping to copper phthalocyanine in inverted top emitting organic light emitting diodes. Applied Physics Letters, 2009, 95, .	1.5	27
23	Solidâ€State Dual Function Electrochemical Devices: Energy Storage and Lightâ€Emitting Applications. Advanced Energy Materials, 2016, 6, 1600651.	10.2	27
24	Highly conductive, binary ionic liquidâ€“solvent mixture ion gels for effective switching of electrolyte-gated transistors. Journal of Materials Chemistry C, 2018, 6, 10987-10993.	2.7	26
25	Self-healable, stretchable, and nonvolatile solid polymer electrolytes for sustainable energy storage and sensing applications. Energy Storage Materials, 2022, 45, 323-331.	9.5	24
26	Effect of magnesium oxide buffer layer on performance of inverted top-emitting organic light-emitting diodes. Journal of Applied Physics, 2006, 100, 064106.	1.1	23
27	Enhancement of hole injection in pentacene organic thin-film transistor of O2 plasma-treated Au electrodes. Applied Physics Letters, 2006, 89, 142117.	1.5	22
28	Design rules for highly transparent electrodes using dielectric constant matching of metal oxide with Ag film in optoelectronic devices. Chemical Communications, 2012, 48, 10606.	2.2	22
29	The effect of localized surface plasmon resonance on the emission color change in organic light emitting diodes. Nanoscale, 2016, 8, 6463-6467.	2.8	19
30	Highly conductive and mechanically robust nanocomposite polymer electrolytes for solid-state electrochemical thin-film devices. Organic Electronics, 2019, 65, 426-433.	1.4	19
31	Effect of Oxygen Plasma Treatment on Crystal Growth Mode at Pentacene/Ni Interface in Organic Thin-Film Transistors. Journal of Physical Chemistry B, 2010, 114, 14854-14859.	1.2	18
32	Reduced Graphite Oxide-Indium Tin Oxide Hybrid Materials for use as a Transparent Electrode. Journal of the Electrochemical Society, 2011, 158, J231.	1.3	18
33	Change of interface dipole energy with interfacial layer thickness and O2 plasma treatment in metal/organic interface. Applied Physics Letters, 2007, 90, 183508.	1.5	17
34	Inverted Top-Emitting Organic Light-Emitting Diodes Using Transparent Silver Oxide Anode Formed by Oxygen Plasma. Electrochemical and Solid-State Letters, 2008, 11, H29.	2.2	17
35	Stable organic-inorganic hybrid multilayered photoelectrochemical cells. Journal of Power Sources, 2017, 341, 411-418.	4.0	17
36	Printable carbon nanotube-based elastic conductors for fully-printed sub-1 V stretchable electrolyte-gated transistors and inverters. Journal of Materials Chemistry C, 2020, 8, 3639-3645.	2.7	17

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37	Electrochemiluminescent Transistors: A New Strategy toward Lightâ€Emitting Switching Devices. Advanced Materials, 2021, 33, e2005456.	11.1	17
38	Continuous 1D-Metallic Microfibers Web for Flexible Organic Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 27397-27404.	4.0	16
39	Electrospun polymer electrolyte nanocomposites for solid-state energy storage. Composites Part B: Engineering, 2018, 152, 275-281.	5.9	16
40	Highâ€Performance Pâ€Type Copper(I) Thiocyanate Thin Film Transistors Processed from Solution at Low Temperature. Advanced Materials Interfaces, 2019, 6, 1900883.	1.9	16
41	MgO nano-facet embedded silver-based dielectric/metal/dielectric transparent electrode. Optics Express, 2012, 20, 845.	1.7	15
42	Phase-controllable copper oxides for an efficient anode interfacial layer in organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 2039-2044.	6.7	15
43	Area-Controllable Stamping of Semicrystalline Copolymer Ionogels for Solid-State Electrolyte-Gated Transistors and Light-Emitting Devices. ACS Applied Materials & Interfaces, 2017, 9, 42978-42985.	4.0	15
44	Hole Injection Layer of Thermally Evaporated Copper Oxide for Top Emitting Organic Light Emitting Diodes. Journal of the Electrochemical Society, 2010, 157, J347.	1.3	14
45	Flexible top-emitting organic light emitting diodes with a functional dielectric reflector on a metal foil substrate. RSC Advances, 2018, 8, 26156-26160.	1.7	13
46	Thermostable Ion Gels for High-Temperature Operation of Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2020, 12, 15464-15471.	4.0	13
47	Correlation Between Charge Injection and Charge Balance in Organic Light Emitting Diodes Using LiF and IrO[sub x] Interlayers. Journal of the Electrochemical Society, 2009, 156, J57.	1.3	12
48	Doping Mechanism and Electronic Structure of Alkali Metal Doped Tris(8-hydroxyquinoline) Aluminum. Journal of Physical Chemistry C, 2012, 116, 9158-9165.	1.5	12
49	Extremely flat metal films implemented by surface roughness transfer for flexible electronics. RSC Advances, 2018, 8, 10883-10888.	1.7	12
50	Solution processed vertical p-channel thin film transistors using copper(i) thiocyanate. Journal of Materials Chemistry C, 2020, 8, 5587-5593.	2.7	12
51	Enhancement of Electron Injection in Flexible OLEDs Using Magnesium-Doped Tris(8-hydroxyquinoline) Aluminum Layer. Electrochemical and Solid-State Letters, 2007, 10, H85.	2.2	11
52	Design of red, green, blue transparent electrodes for flexible optical devices. Optics Express, 2014, 22, A1257.	1.7	11
53	Investigation of Metal Peel-Off Technique for the Fabrication of Flexible Organic Light-Emitting Diodes. Journal of the Electrochemical Society, 2009, 156, J253.	1.3	10
54	Transparency controllable silver-based electrode for flexible optoelectronics. Applied Physics Letters, 2013, 102, .	1.5	10

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55	Synthesis and organic solar cell application of RNA-nucleobase-complexed CdS nanowires. Solar Energy, 2020, 206, 287-293.	2.9	10
56	Electron injection in magnesium-doped organic light-emitting diodes. Applied Physics Letters, 2012, 101, 141102.	1.5	9
57	Light emitting fabrics based on luminophore dye-doped ion gel electrolyte microfibers. Dyes and Pigments, 2018, 154, 188-193.	2.0	9
58	Effects of Functional Groups in Unsymmetrical Distyrylbiphenyl on the Performances of Blue Organic Light Emitting Diodes. Journal of Physical Chemistry C, 2011, 115, 9767-9771.	1.5	8
59	Simple formation method of vanadium oxide films with gap states for application in organic optoelectronics. Organic Electronics, 2014, 15, 2038-2042.	1.4	8
60	Flexible Organic Light-Emitting Diodes Using a Metal Peel-Off Method. IEEE Photonics Technology Letters, 2008, 20, 1836-1838.	1.3	7
61	Oxygen-Plasma-Treated Indiumâ€“Tin-Oxide Films on Nonalkali Glass Deposited by Super Density Arc Plasma Ion Plating. Japanese Journal of Applied Physics, 2008, 47, 862-866.	0.8	7
62	In Situ Analysis of Hole Injection Barrier of Molybdenum-Oxide-Coated Anode with Organic Materials Using Synchrotron Radiation Photoemission Spectroscopy. Journal of the Electrochemical Society, 2009, 156, H648.	1.3	7
63	Metal-Diffusion-Induced Interface Dipole: Correlating Metal Oxideâ€“Organic Chemical Interaction and Interface Electronic States. Journal of Physical Chemistry C, 2011, 115, 23107-23112.	1.5	7
64	In-situDetermination of Interface Dipole Energy between Tris(8-hydroxyquinoline) Aluminum and MgO Coated Al in Inverted Top-Emitting Organic Light-Emitting Diodes. Japanese Journal of Applied Physics, 2011, 50, 101602.	0.8	7
65	In-situDetermination of Interface Dipole Energy between Tris(8-hydroxyquinoline) Aluminum and MgO Coated Al in Inverted Top-Emitting Organic Light-Emitting Diodes. Japanese Journal of Applied Physics, 2011, 50, 101602.	0.8	6
66	Symmetrical Emission Transparent Organic Light-Emitting Diodes With Ultrathin Ag Electrodes. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	6
67	Water Washable and Flexible Light-Emitting Fibers Based on Electrochemiluminescent Gels. ACS Applied Materials & Interfaces, 2022, 14, 17709-17718.	4.0	6
68	Effect of O[sub 2]-Plasma Treatment of Mo on the Crystal Growth Mode of Pentacene of Organic Thin-Film Transistors. Journal of the Electrochemical Society, 2009, 156, H674.	1.3	5
69	Solution-Processed Perovskite Gate Insulator for Sub-2 V Electrolyte-Gated Transistors. Journal of Physical Chemistry C, 2018, 122, 10552-10558.	1.5	5
70	Highly Efficient Organic Light Emitting Diodes with Hole Injection Layer of Thermally Evaporated Molybdenum Oxide. Electronic Materials Letters, 2009, 5, 151-155.	1.0	4
71	Substrate-free, stretchable electrolyte gated transistors. Organic Electronics, 2020, 87, 105936.	1.4	4
72	Enhancement of Electroluminescence Properties in OLEDs on Polyethylene Terephthalate with Ruthenium-Oxide-Coated Anode and Mgâ€“Al Alloy Cathode. Journal of the Electrochemical Society, 2007, 154, H782.	1.3	3

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73	Pâ€107: Mechanism of Peelâ€Off of Metal Substrate for Flexible Devices. Digest of Technical Papers SID International Symposium, 2009, 40, 1516-1519.	0.1	3
74	Modulation of surface plasmons coupling for enhancement of optical transmittance of silver-coated alkaline-earth metal films. Journal of Materials Chemistry, 2012, 22, 22859.	6.7	3
75	Solution-Processed Copper Iodide Film as a p-Type Electrical Conductor and Their Applications. ACS Applied Electronic Materials, 2022, 4, 1232-1237.	2.0	3
76	Amorphous copper iodide: a p-type semiconductor for solution processed p-channel thin-film transistors and inverters. Journal of Materials Chemistry C, 2022, 10, 7815-7821.	2.7	3
77	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.	11.1	2
78	Completely Hazy and Transparent Films by Embedding Air Gaps for Elimination of Angular Color Shift in Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 39660-39670.	4.0	2
79	Pâ€221: Enhancement of Electroluminescent Property of Inverted Topâ€Emitting Organic Light Emitting Diodes with Transparent AgO_x by O₂ Plasma. Digest of Technical Papers SID International Symposium, 2008, 39, 2036-2038.	0.1	0
80	Pâ€216L: Lateâ€News Poster: Optical Properties of WO₃/Ag/WO₃ Multilayer as Transparent Electrode in Top Emitting OLEDs. Digest of Technical Papers SID International Symposium, 2011, 42, 1784-1786.	0.1	0
81	Electrochemiluminescent Materials: Electrochemiluminescent Transistors: A New Strategy toward Lightâ€Emitting Switching Devices (Adv. Mater. 5/2021). Advanced Materials, 2021, 33, 2170037.	11.1	0
82	Interface Functional Materials for Improving the Performance and Stability of Organic Solar Cell. Applied Chemistry for Engineering, 2014, 25, 447-454.	0.2	0
83	Self-Supporting Gel Electrolyte Material for Electrochemiluminescent Sticker Display. ECS Meeting Abstracts, 2016, , .	0.0	0