

# Jaehyun Moon, ???

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108  
papers

1,787  
citations

23  
h-index

38  
g-index

114  
ext. papers

1,954  
ext. citations

3.7  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
108	Extracting internal modes of top emission organic light emitting diodes by using internal random mesoscopic wrinkles. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 96, 163-168	6.3	2
107	Optimizing Oxide Mixing Ratio for Achieving Energy-Efficient Oxide Thin-Film Transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000750	1.6	
106	Identification of a multi-stack structure of graphene electrodes doped layer-by-layer with benzimidazole and its implication for the design of optoelectronic devices. <i>Optics Express</i> , <b>2021</b> , 29, 23131-23141	3.3	1
105	Compliant characteristics of carbon nanotube electrodes for electromechanical applications. <i>Thin Solid Films</i> , <b>2020</b> , 706, 138015	2.2	0
104	Technical issues and integration scheme for graphene electrode OLED panels <b>2020</b> , 73-98		
103	A prototype active-matrix OLED using graphene anode for flexible display application. <i>Journal of Information Display</i> , <b>2020</b> , 21, 49-56	4.1	14
102	Partially pyridine-functionalized quantum dots for efficient red, green, and blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3429-3435	7.1	10
101	High-performance fab-compatible processed near-infrared organic thin-film photodiode with 3.3 $\times$ 10 <sup>12</sup> Jones detectivity and 80% external quantum efficiency. <i>Organic Electronics</i> , <b>2019</b> , 70, 101-106	3.5	12
100	Spontaneously formed organic wrinkle structure for top-emitting organic light emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 80, 490-496	6.3	8
99	Importance of Purcell factor for optimizing structure of organic light-emitting diodes. <i>Optics Express</i> , <b>2019</b> , 27, 11057-11068	3.3	15
98	All-oxide thin-film transistors with channels of mixed InO <sub>x</sub> -ZnO <sub>y</sub> formed by plasma-enhanced atomic layer deposition process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 060910	2.9	3
97	Direct formation of random wrinkle on emission surface for improved light out coupling and stable angular spectrum of white organic light emitting diodes. <i>Journal of Luminescence</i> , <b>2019</b> , 205, 66-71	3.8	3
96	Stabilizing color shift of tandem white organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 69, 414-421	6.3	14
95	Built-In Haze Glass-Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Light-Emitting Diodes (OLEDs). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802944	15.6	19
94	Overcoming the efficiency limit of organic light-emitting diodes using ultra-thin and transparent graphene electrodes. <i>Optics Express</i> , <b>2018</b> , 26, 617-626	3.3	7
93	Mechanistic Understanding of Improved Performance of Graphene Cathode Inverted Organic Light-Emitting Diodes by Photoemission and Impedance Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26456-26464	9.5	6
92	33-2: Flexible OLED Panels with Pixilated Graphene Anode. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 415-417	0.5	1

91	Display process compatible accurate graphene patterning for OLED applications. <i>2D Materials</i> , <b>2018</b> , 5, 014003	5.9	14
90	Porous cellulose paper as a light out coupling medium for organic light-emitting diodes. <i>Journal of Information Display</i> , <b>2018</b> , 19, 171-177	4.1	6
89	Luminescence enhancement of OLED lighting panels using a microlens array film. <i>Journal of Information Display</i> , <b>2018</b> , 19, 179-184	4.1	10
88	High mobility ultra-thin crystalline indium oxide thin film transistor using atomic layer deposition. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 112102	3.4	28
87	Organic wrinkles embedded in high-index medium as planar internal scattering structures for organic light-emitting diodes. <i>Organic Electronics</i> , <b>2017</b> , 46, 139-144	3.5	18
86	A variation in wrinkle structures of UV-cured films with chemical structures of prepolymers. <i>Materials Letters</i> , <b>2017</b> , 199, 105-109	3.3	8
85	Optical and structural approaches for improved luminance distribution and enhanced efficiency of organic light emitting diodes. <i>Journal of Luminescence</i> , <b>2017</b> , 187, 433-440	3.8	9
84	Highly efficient green, blue, and white phosphorescent inverted organic light-emitting diodes by improving charge injection and balance. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9911-9919	7.1	8
83	Flexible integrated OLED substrates prepared by printing and plating process. <i>Organic Electronics</i> , <b>2017</b> , 50, 170-176	3.5	34
82	Unraveled Face-Dependent Effects of Multilayered Graphene Embedded in Transparent Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43105-43112	9.5	7
81	Stable angular emission spectra in white organic light-emitting diodes using graphene/PEDOT:PSS composite electrode. <i>Optics Express</i> , <b>2017</b> , 25, 9734-9742	3.3	6
80	Optical Effects of Graphene Electrodes on Organic Light-Emitting Diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 48-53	3.8	20
79	Wrinkle structures formed by formulating UV-crosslinkable liquid prepolymers. <i>Polymer</i> , <b>2016</b> , 99, 447-452	3.5	9
78	A Light Scattering Layer for Internal Light Extraction of Organic Light-Emitting Diodes Based on Silver Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 17409-15	9.5	37
77	Simultaneously enhanced device efficiency, stabilized chromaticity of organic light emitting diodes with lambertian emission characteristic by random convex lenses. <i>Nanotechnology</i> , <b>2016</b> , 27, 075202	3.4	10
76	Highly efficient white transparent organic light emitting diodes with nano-structured substrate. <i>Organic Electronics</i> , <b>2016</b> , 29, 72-78	3.5	7
75	Outcoupling Efficiency Analysis of OLEDs Fabricated on a Wrinkled Substrate. <i>Journal of Display Technology</i> , <b>2016</b> , 12, 801-807		14
74	White Organic Light Emitting Diodes with a Random Scattering Layer for an Internal Light Extraction. <i>ECS Journal of Solid State Science and Technology</i> , <b>2016</b> , 5, R3126-R3130	2	4

73	Reflective Colored Organic Light-Emitting Diodes for Light-Adaptable Display. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 11843-11848	1.3	1
72	Design and fabrication of two-stack tandem-type all-phosphorescent white organic light-emitting diode for achieving high color rendering index and luminous efficacy. <i>Optics Express</i> , <b>2016</b> , 24, 24161-24168	3.3	12
71	Area-selective external light extraction for metal bus equipped large area transparent organic light-emitting diodes. <i>Optics Express</i> , <b>2016</b> , 24, 5356-5365	3.3	4
70	Organic wrinkles for energy efficient organic light emitting diodes. <i>Organic Electronics</i> , <b>2015</b> , 26, 273-278	3.5	39
69	Technical issues in graphene anode organic light emitting diodes. <i>Diamond and Related Materials</i> , <b>2015</b> , 57, 68-73	3.5	10
68	White transparent organic light-emitting diodes with high top and bottom color rendering indices. <i>Journal of Information Display</i> , <b>2015</b> , 16, 161-168	4.1	24
67	Finely Formed, Kinetically Modulated Wrinkle Structures in UV-Crosslinkable Liquid Prepolymers. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 2006-11	4.8	14
66	Highly smooth and refractive films fabricated from titanium oxide hydrate solution. <i>Materials Letters</i> , <b>2015</b> , 157, 248-251	3.3	2
65	ITO/metal/ITO anode for efficient transparent white organic light-emitting diodes. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 02BC04	1.4	8
64	Random nano-structures as light extraction functionals for organic light-emitting diode applications. <i>Organic Electronics</i> , <b>2014</b> , 15, 196-202	3.5	74
63	A randomly nano-structured scattering layer for transparent organic light emitting diodes. <i>Nanoscale</i> , <b>2014</b> , 6, 10727-33	7.7	31
62	Triethylene glycol titanium oxide hydrate hybrid films with high refractive index and surface evenness. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4468-4475	7.1	8
61	Carrier injection efficiencies and energy level alignments of multilayer graphene anodes for organic light-emitting diodes with different hole injection layers. <i>Carbon</i> , <b>2014</b> , 79, 623-630	10.4	26
60	Color temperature tunable white organic light-emitting diodes. <i>Organic Electronics</i> , <b>2014</b> , 15, 189-195	3.5	31
59	Surface Control of Planarization Layer on Embossed Glass for Light Extraction in OLEDs. <i>ETRI Journal</i> , <b>2014</b> , 36, 847-855	1.4	17
58	Light diffusing effects of nano and micro-structures on OLED with microcavity. <i>Optics Express</i> , <b>2014</b> , 22 Suppl 6, A1507-18	3.3	8
57	Random nanostructure scattering layer for suppression of microcavity effect and light extraction in OLEDs. <i>Optics Letters</i> , <b>2014</b> , 39, 3527-30	3	23
56	FDTD analysis of the light extraction efficiency of OLEDs with a random scattering layer. <i>Optics Express</i> , <b>2014</b> , 22, 498-507	3.3	52

55	52.1: Invited Paper: Highly Efficient Transparent Organic Light Emitting Diodes with an Internal Random Nano-structured Scattering Layer. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 750-753	0.5	
54	Organic Light Emitting Diode with Uniform Luminance Distribution and Enhanced Efficiency via Random Embossing Structure. <i>ECS Solid State Letters</i> , <b>2014</b> , 3, R56-R59		7
53	Photocrosslinkable liquid prepolymers for flexible waveguide display applications. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2983	7.1	8
52	A physicochemical mechanism of chemical gas sensors using an AC analysis. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 9361-74	3.6	20
51	P.108: Organic Wrinkles as Optical Scattering Sources. <i>Digest of Technical Papers SID International Symposium</i> , <b>2013</b> , 44, 1395-1396	0.5	
50	Organic/metal hybrid cathode for transparent organic light-emitting diodes. <i>Organic Electronics</i> , <b>2013</b> , 14, 2039-2045	3.5	16
49	Transparent OLED Lighting Panel Design Using Two-Dimensional OLED Circuit Modeling. <i>ETRI Journal</i> , <b>2013</b> , 35, 559-565	1.4	14
48	Directed emissive high efficient white transparent organic light emitting diodes with double layered capping layers. <i>Organic Electronics</i> , <b>2012</b> , 13, 1386-1391	3.5	24
47	The Optical Effects of Capping Layers on the Performance of Transparent Organic Light-Emitting Diodes. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 39-47	1.8	40
46	A perturbation analysis on solid polymer surfaces. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2788-2791	5.1	
45	Blue fluorescent organic light emitting diodes with multilayered graphene anode. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2796-2799	5.1	11
44	Large area organic light emitting diodes with multilayered graphene anodes <b>2012</b> ,		2
43	Multilayered graphene anode for blue phosphorescent organic light emitting diodes. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 133304	3.4	54
42	Improved Device Performances in Phosphorescent Organic Light-Emitting Diodes by Microcavity Effects. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 09MH01	1.4	7
41	A new method for monitoring an OLED panel for lighting by sensing the wave-guided light. <i>Journal of Information Display</i> , <b>2012</b> , 13, 119-123	4.1	7
40	39.1: Invited Paper: Efficient Color Tunable Light Sources by The Combination of a Transparent and a Non-Transparent Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2012</b> , 43, 531-533	0.5	2
39	Improved Device Performances in Phosphorescent Organic Light-Emitting Diodes by Microcavity Effects. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 09MH01	1.4	6
38	Fabrication of ordered hollow ZnO-NiO oxide arrays. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 4394-9	1.3	

37	Molecular monolayers for conformal, nanoscale doping of InP nanopillar photovoltaics. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 203101	3.4	46
36	Structure and Disorder in Amorphous Alumina Thin Films: Insights from High-Resolution Solid-State NMR. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13890-13894	3.8	75
35	Fabrication of self-aligned TFTs with a ultra-low temperature polycrystalline silicon process on metal foils. <i>Solid-State Electronics</i> , <b>2010</b> , 54, 1326-1331	1.7	2
34	Structure and CO gas sensing properties of electrospun TiO <sub>2</sub> nanofibers. <i>Materials Letters</i> , <b>2010</b> , 64, 255-257	3.3	70
33	Structural, electrical and gas sensing properties of eletrospun TiO <sub>2</sub> nanofibers. <i>Thin Solid Films</i> , <b>2010</b> , 518, 6642-6645	2.2	21
32	SnO <sub>2</sub> /ZnO hybrid nanofibers-based highly sensitive nitrogen dioxides sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 592-595	8.5	74
31	Gas sensitivity modulation of oxide thin films by means of an electrical method. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 148, 539-543	8.5	4
30	Pd-doped TiO <sub>2</sub> nanofiber networks for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 149, 301-305	8.5	173
29	Two-dimensional ZnO/NiO macroporous arrays: Fabrication, structure and electrical properties. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 6849-6856	6.7	7
28	Semiconducting ZnO Nanofibers as Gas Sensors and Gas Response Improvement by SnO <sub>2</sub> Coating. <i>ETRI Journal</i> , <b>2009</b> , 31, 636-641	1.4	19
27	Luminescence Enhancement by Ga <sup>3+</sup> Codoping of BaTiO <sub>3</sub> :Pr <sup>3+</sup> +Phosphors. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 052301	1.4	16
26	An Analysis on the Electrical Short in a Large Area Organic Thin Film Transistor Array with the Poly(4-vinylphenol) Gate Dielectrics. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 081504	1.4	
25	A novel templating process for fabricating SnO <sub>2</sub> hollow hemispherical arrays by pulsed laser deposition. <i>Materials Letters</i> , <b>2009</b> , 63, 157-159	3.3	4
24	Colloidal templating for producing hollow ZnO shells: Fabrication, growth and electrical properties. <i>Thin Solid Films</i> , <b>2009</b> , 517, 3904-3907	2.2	7
23	Structure and electrical properties of electrospun ZnO/NiO mixed oxide nanofibers. <i>Current Applied Physics</i> , <b>2009</b> , 9, S213-S216	2.6	26
22	Fabrication and characterization of ZnO nanofibers by electrospinning. <i>Current Applied Physics</i> , <b>2009</b> , 9, S210-S212	2.6	93
21	Fabrication and electrical properties of ordered two-dimensional hollow ZnO shells arrays. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 1166-1170	3.9	1
20	Fabrication and Characterization of Semiconducting ZnO Nanofibers for CO Sensing. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, K63		15

19	Insight into the Shear-Induced Ordering of Colloidal Particles by a Spin-Coating Method. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 7968-7971	1.4	4
18	3.5-Inch QCIF AMOLED Panels with Ultra-low-Temperature Polycrystalline Silicon Thin Film Transistor on Plastic Substrate. <i>ETRI Journal</i> , <b>2008</b> , 30, 308-314	1.4	3
17	Growth of thin Si oxide in a cyclic oxygen plasma environment below 200 °C. <i>Applied Surface Science</i> , <b>2008</b> , 254, 6422-6427	6.7	5
16	STRUCTURAL AND DIELECTRIC PROPERTIES OF BARIUM STANNATE TITANATE THIN FILMS FOR MICROWAVE TUNABLE DEVICES AND MULTIFUNCTIONAL SENSORS. <i>Integrated Ferroelectrics</i> , <b>2007</b> , 93, 141-147	0.8	1
15	Bridging grain boundary volume to segregation at symmetric grain boundaries. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 448, 299-302	5.3	
14	Factors Affecting the Coverage Dependence of the Diffusivity of One Metal over the Surface of Another. <i>International Journal of Thermophysics</i> , <b>2007</b> , 28, 646-660	2.1	3
13	Texture development and grain boundary faceting in an excimer laser-crystallized silicon thin film. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 2322		2
12	Self-aligned Thin Film Transistor Fabrication with an Ultra Low Temperature Polycrystalline Silicon Process on a Benzocyclobutene Planarized Stainless Steel Foil Substrate. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 910, 3		3
11	Performance Improvement of Ultralow Temperature Polycrystalline Silicon TFT on Plastic Substrate by Plasma Oxidation of Polycrystalline Si Surface. <i>IEEE Electron Device Letters</i> , <b>2006</b> , 27, 896-898	4.4	7
10	Plasma-free hydrogenation of ultralow-temperature polycrystalline silicon thin-film transistors with SiNx:H as interlayer dielectric. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 073516	3.4	6
9	Oxide-silicon-oxide buffer structure for ultralow temperature polycrystalline silicon thin-film transistor on plastic substrate. <i>IEEE Electron Device Letters</i> , <b>2006</b> , 27, 579-581	4.4	19
8	P-2: High Performance of Polycrystalline Silicon TFT on Plastic Substrate Processed at Very Low Temperatures. <i>Digest of Technical Papers SID International Symposium</i> , <b>2006</b> , 37, 197	0.5	
7	Comment on pseudopartial wetting and precursor film growth in immiscible metal systems. <i>Langmuir</i> , <b>2005</b> , 21, 3722-3; discussion 3724	4	1
6	Reply to Comment on Pseudopartial Wetting and Precursor Film Growth in Immiscible Metal Systems. <i>Langmuir</i> , <b>2005</b> , 21, 3724-3724	4	
5	Large-grain polycrystalline silicon film by sequential lateral solidification on a plastic substrate. <i>Thin Solid Films</i> , <b>2005</b> , 493, 192-196	2.2	17
4	Diffusion kinetics of Bi and PbBi monolayer precursing films on Cu(1 1 1). <i>Surface Science</i> , <b>2004</b> , 559, 149-157	1.8	10
3	Pseudopartial wetting and precursor film growth in immiscible metal systems. <i>Langmuir</i> , <b>2004</b> , 20, 402-84		30
2	Simulation of spreading of precursing Ag films on Ni(). <i>Computational Materials Science</i> , <b>2002</b> , 25, 503-509	2	24

- 1 Effects of concentration dependent diffusivity on the growth of precursing films of Pb on Cu(1 1 1). *Surface Science*, **2001**, 488, 73-82 1.8 30