

Jaehyun Moon, ???

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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	Pd-doped TiO ₂ nanofiber networks for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2010 , 149, 301-305	8.5	173
107	Fabrication and characterization of ZnO nanofibers by electrospinning. <i>Current Applied Physics</i> , 2009 , 9, S210-S212	2.6	93
106	Structure and Disorder in Amorphous Alumina Thin Films: Insights from High-Resolution Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13890-13894	3.8	75
105	Random nano-structures as light extraction functionals for organic light-emitting diode applications. <i>Organic Electronics</i> , 2014 , 15, 196-202	3.5	74
104	SnO ₂ /ZnO hybrid nanofibers-based highly sensitive nitrogen dioxides sensor. <i>Sensors and Actuators B: Chemical</i> , 2010 , 145, 592-595	8.5	74
103	Structure and CO gas sensing properties of electrospun TiO ₂ nanofibers. <i>Materials Letters</i> , 2010 , 64, 255-257	3.3	70
102	Multilayered graphene anode for blue phosphorescent organic light emitting diodes. <i>Applied Physics Letters</i> , 2012 , 100, 133304	3.4	54
101	FDTD analysis of the light extraction efficiency of OLEDs with a random scattering layer. <i>Optics Express</i> , 2014 , 22, 498-507	3.3	52
100	Molecular monolayers for conformal, nanoscale doping of InP nanopillar photovoltaics. <i>Applied Physics Letters</i> , 2011 , 98, 203101	3.4	46
99	The Optical Effects of Capping Layers on the Performance of Transparent Organic Light-Emitting Diodes. <i>IEEE Photonics Journal</i> , 2012 , 4, 39-47	1.8	40
98	Organic wrinkles for energy efficient organic light emitting diodes. <i>Organic Electronics</i> , 2015 , 26, 273-278	3.5	39
97	A Light Scattering Layer for Internal Light Extraction of Organic Light-Emitting Diodes Based on Silver Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17409-15	9.5	37
96	Flexible integrated OLED substrates prepared by printing and plating process. <i>Organic Electronics</i> , 2017 , 50, 170-176	3.5	34
95	A randomly nano-structured scattering layer for transparent organic light emitting diodes. <i>Nanoscale</i> , 2014 , 6, 10727-33	7.7	31
94	Color temperature tunable white organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 189-195	3.5	31
93	Pseudopartial wetting and precursor film growth in immiscible metal systems. <i>Langmuir</i> , 2004 , 20, 402-84		30
92	Effects of concentration dependent diffusivity on the growth of precursing films of Pb on Cu(1 1 1). <i>Surface Science</i> , 2001 , 488, 73-82	1.8	30

91	High mobility ultra-thin crystalline indium oxide thin film transistor using atomic layer deposition. <i>Applied Physics Letters</i> , 2018 , 113, 112102	3.4	28
90	Carrier injection efficiencies and energy level alignments of multilayer graphene anodes for organic light-emitting diodes with different hole injection layers. <i>Carbon</i> , 2014 , 79, 623-630	10.4	26
89	Structure and electrical properties of electrospun ZnO/NiO mixed oxide nanofibers. <i>Current Applied Physics</i> , 2009 , 9, S213-S216	2.6	26
88	White transparent organic light-emitting diodes with high top and bottom color rendering indices. <i>Journal of Information Display</i> , 2015 , 16, 161-168	4.1	24
87	Directed emissive high efficient white transparent organic light emitting diodes with double layered capping layers. <i>Organic Electronics</i> , 2012 , 13, 1386-1391	3.5	24
86	Simulation of spreading of precursing Ag films on Ni(). <i>Computational Materials Science</i> , 2002 , 25, 503-509	3.2	24
85	Random nanostructure scattering layer for suppression of microcavity effect and light extraction in OLEDs. <i>Optics Letters</i> , 2014 , 39, 3527-30	3	23
84	Structural, electrical and gas sensing properties of eletrospun TiO2 nanofibers. <i>Thin Solid Films</i> , 2010 , 518, 6642-6645	2.2	21
83	Optical Effects of Graphene Electrodes on Organic Light-Emitting Diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 48-53	3.8	20
82	A physicochemical mechanism of chemical gas sensors using an AC analysis. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9361-74	3.6	20
81	Built-In Haze Glass-Fabric Reinforced Siloxane Hybrid Film for Efficient Organic Light-Emitting Diodes (OLEDs). <i>Advanced Functional Materials</i> , 2018 , 28, 1802944	15.6	19
80	Semiconducting ZnO Nanofibers as Gas Sensors and Gas Response Improvement by SnO2 Coating. <i>ETRI Journal</i> , 2009 , 31, 636-641	1.4	19
79	Oxide-silicon-oxide buffer structure for ultralow temperature polycrystalline silicon thin-film transistor on plastic substrate. <i>IEEE Electron Device Letters</i> , 2006 , 27, 579-581	4.4	19
78	Organic wrinkles embedded in high-index medium as planar internal scattering structures for organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 46, 139-144	3.5	18
77	Surface Control of Planarization Layer on Embossed Glass for Light Extraction in OLEDs. <i>ETRI Journal</i> , 2014 , 36, 847-855	1.4	17
76	Large-grain polycrystalline silicon film by sequential lateral solidification on a plastic substrate. <i>Thin Solid Films</i> , 2005 , 493, 192-196	2.2	17
75	Organic/metal hybrid cathode for transparent organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 2039-2045	3.5	16
74	Luminescence Enhancement by Ga ³⁺ Codoping of BaTiO ₃ :Pr ³⁺ +Phosphors. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 052301	1.4	16

73	Fabrication and Characterization of Semiconducting ZnO Nanofibers for CO Sensing. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, K63		15
72	Importance of Purcell factor for optimizing structure of organic light-emitting diodes. <i>Optics Express</i> , 2019 , 27, 11057-11068	3.3	15
71	Outcoupling Efficiency Analysis of OLEDs Fabricated on a Wrinkled Substrate. <i>Journal of Display Technology</i> , 2016 , 12, 801-807		14
70	Finely Formed, Kinetically Modulated Wrinkle Structures in UV-Crosslinkable Liquid Prepolymers. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 2006-11	4.8	14
69	Transparent OLED Lighting Panel Design Using Two-Dimensional OLED Circuit Modeling. <i>ETRI Journal</i> , 2013 , 35, 559-565	1.4	14
68	A prototype active-matrix OLED using graphene anode for flexible display application. <i>Journal of Information Display</i> , 2020 , 21, 49-56	4.1	14
67	Stabilizing color shift of tandem white organic light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 414-421	6.3	14
66	Display process compatible accurate graphene patterning for OLED applications. <i>2D Materials</i> , 2018 , 5, 014003	5.9	14
65	High-performance fab-compatible processed near-infrared organic thin-film photodiode with 3.3 \times 10 ¹² Jones detectivity and 80% external quantum efficiency. <i>Organic Electronics</i> , 2019 , 70, 101-106	3.5	12
64	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> , 2016 , 24, 24161-24168	3.3	12
63	Blue fluorescent organic light emitting diodes with multilayered graphene anode. <i>Materials Research Bulletin</i> , 2012 , 47, 2796-2799	5.1	11
62	Partially pyridine-functionalized quantum dots for efficient red, green, and blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3429-3435	7.1	10
61	Technical issues in graphene anode organic light emitting diodes. <i>Diamond and Related Materials</i> , 2015 , 57, 68-73	3.5	10
60	Simultaneously enhanced device efficiency, stabilized chromaticity of organic light emitting diodes with lambertian emission characteristic by random convex lenses. <i>Nanotechnology</i> , 2016 , 27, 075202	3.4	10
59	Diffusion kinetics of Bi and PbBi monolayer precursing films on Cu(1 1 1). <i>Surface Science</i> , 2004 , 559, 149-157	1.8	10
58	Luminescence enhancement of OLED lighting panels using a microlens array film. <i>Journal of Information Display</i> , 2018 , 19, 179-184	4.1	10
57	Optical and structural approaches for improved luminance distribution and enhanced efficiency of organic light emitting diodes. <i>Journal of Luminescence</i> , 2017 , 187, 433-440	3.8	9
56	Wrinkle structures formed by formulating UV-crosslinkable liquid prepolymers. <i>Polymer</i> , 2016 , 99, 447-452	4.5	9

55	A variation in wrinkle structures of UV-cured films with chemical structures of prepolymers. <i>Materials Letters</i> , 2017 , 199, 105-109	3.3	8
54	Spontaneously formed organic wrinkle structure for top-emitting organic light emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 490-496	6.3	8
53	Triethylene glycoltitanium oxide hydrate hybrid films with high refractive index and surface evenness. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4468-4475	7.1	8
52	Photocrosslinkable liquid prepolymers for flexible waveguide display applications. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2983	7.1	8
51	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> , 2017 , 5, 9911-9919	7.1	8
50	ITO/metal/ITO anode for efficient transparent white organic light-emitting diodes. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 02BC04	1.4	8
49	Light diffusing effects of nano and micro-structures on OLED with microcavity. <i>Optics Express</i> , 2014 , 22 Suppl 6, A1507-18	3.3	8
48	Highly efficient white transparent organic light emitting diodes with nano-structured substrate. <i>Organic Electronics</i> , 2016 , 29, 72-78	3.5	7
47	Overcoming the efficiency limit of organic light-emitting diodes using ultra-thin and transparent graphene electrodes. <i>Optics Express</i> , 2018 , 26, 617-626	3.3	7
46	Unraveled Face-Dependent Effects of Multilayered Graphene Embedded in Transparent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43105-43112	9.5	7
45	Organic Light Emitting Diode with Uniform Luminance Distribution and Enhanced Efficiency via Random Embossing Structure. <i>ECS Solid State Letters</i> , 2014 , 3, R56-R59		7
44	Colloidal templating for producing hollow ZnO shells: Fabrication, growth and electrical properties. <i>Thin Solid Films</i> , 2009 , 517, 3904-3907	2.2	7
43	Improved Device Performances in Phosphorescent Organic Light-Emitting Diodes by Microcavity Effects. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 09MH01	1.4	7
42	A new method for monitoring an OLED panel for lighting by sensing the wave-guided light. <i>Journal of Information Display</i> , 2012 , 13, 119-123	4.1	7
41	Two-dimensional ZnO/NiO macroporous arrays: Fabrication, structure and electrical properties. <i>Electrochimica Acta</i> , 2010 , 55, 6849-6856	6.7	7
40	Performance Improvement of Ultralow Temperature Polycrystalline Silicon TFT on Plastic Substrate by Plasma Oxidation of Polycrystalline Si Surface. <i>IEEE Electron Device Letters</i> , 2006 , 27, 896-898	4.4	7
39	Mechanistic Understanding of Improved Performance of Graphene Cathode Inverted Organic Light-Emitting Diodes by Photoemission and Impedance Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26456-26464	9.5	6
38	Stable angular emission spectra in white organic light-emitting diodes using graphene/PEDOT:PSS composite electrode. <i>Optics Express</i> , 2017 , 25, 9734-9742	3.3	6

37	Plasma-free hydrogenation of ultralow-temperature polycrystalline silicon thin-film transistors with SiNx:H as interlayer dielectric. <i>Applied Physics Letters</i> , 2006 , 88, 073516	3.4	6
36	Improved Device Performances in Phosphorescent Organic Light-Emitting Diodes by Microcavity Effects. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 09MH01	1.4	6
35	Porous cellulose paper as a light out coupling medium for organic light-emitting diodes. <i>Journal of Information Display</i> , 2018 , 19, 171-177	4.1	6
34	Growth of thin Si oxide in a cyclic oxygen plasma environment below 200 °C. <i>Applied Surface Science</i> , 2008 , 254, 6422-6427	6.7	5
33	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> , 2016 , 5, R3126-R3130	2	4
32	A novel templating process for fabricating SnO2 hollow hemispherical arrays by pulsed laser deposition. <i>Materials Letters</i> , 2009 , 63, 157-159	3.3	4
31	Gas sensitivity modulation of oxide thin films by means of an electrical method. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 539-543	8.5	4
30	Insight into the Shear-Induced Ordering of Colloidal Particles by a Spin-Coating Method. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 7968-7971	1.4	4
29	Area-selective external light extraction for metal bus equipped large area transparent organic light-emitting diodes. <i>Optics Express</i> , 2016 , 24, 5356-5365	3.3	4
28	3.5-Inch QCIF AMOLED Panels with Ultra-low-Temperature Polycrystalline Silicon Thin Film Transistor on Plastic Substrate. <i>ETRI Journal</i> , 2008 , 30, 308-314	1.4	3
27	Factors Affecting the Coverage Dependence of the Diffusivity of One Metal over the Surface of Another. <i>International Journal of Thermophysics</i> , 2007 , 28, 646-660	2.1	3
26	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> , 2006 , 910, 3		3
25	All-oxide thin-film transistors with channels of mixed InOx-ZnOy formed by plasma-enhanced atomic layer deposition process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 060910	2.9	3
24	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> , 2019 , 205, 66-71	3.8	3
23	Highly smooth and refractive films fabricated from titanium oxide hydrate solution. <i>Materials Letters</i> , 2015 , 157, 248-251	3.3	2
22	Large area organic light emitting diodes with multilayered graphene anodes 2012 ,		2
21	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> , 2012 , 43, 531-533	0.5	2
20	Fabrication of self-aligned TFTs with a ultra-low temperature polycrystalline silicon process on metal foils. <i>Solid-State Electronics</i> , 2010 , 54, 1326-1331	1.7	2

19	Texture development and grain boundary faceting in an excimer laser-crystallized silicon thin film. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2322		2
18	Extracting internal modes of top emission organic light emitting diodes by using internal random mesoscopic wrinkles. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 96, 163-168	6.3	2
17	33-2: Flexible OLED Panels with Pixilated Graphene Anode. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 415-417	0.5	1
16	Fabrication and electrical properties of ordered two-dimensional hollow ZnO shells arrays. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 1166-1170	3.9	1
15	STRUCTURAL AND DIELECTRIC PROPERTIES OF BARIUM STANNATE TITANATE THIN FILMS FOR MICROWAVE TUNABLE DEVICES AND MULTIFUNCTIONAL SENSORS. <i>Integrated Ferroelectrics</i> , 2007 , 93, 141-147	0.8	1
14	Comment on pseudopartial wetting and precursor film growth in immiscible metal systems. <i>Langmuir</i> , 2005 , 21, 3722-3; discussion 3724	4	1
13	Reflective Colored Organic Light-Emitting Diodes for Light-Adaptable Display. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11843-11848	1.3	1
12	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> , 2021 , 29, 23131-23141	3.3	1
11	Compliant characteristics of carbon nanotube electrodes for electromechanical applications. <i>Thin Solid Films</i> , 2020 , 706, 138015	2.2	0
10	Technical issues and integration scheme for graphene electrode OLED panels 2020 , 73-98		
9	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> , 2014 , 45, 750-753	0.5	
8	A perturbation analysis on solid polymer surfaces. <i>Materials Research Bulletin</i> , 2012 , 47, 2788-2791	5.1	
7	P.108: Organic Wrinkles as Optical Scattering Sources. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 1395-1396	0.5	
6	Fabrication of ordered hollow ZnO-NiO oxide arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4394-9	1.3	
5	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> , 2009 , 48, 081504	1.4	
4	Bridging grain boundary volume to segregation at symmetric grain boundaries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 448, 299-302	5.3	
3	Reply to Comment on Pseudopartial Wetting and Precursor Film Growth in Immiscible Metal Systems. <i>Langmuir</i> , 2005 , 21, 3724-3724	4	
2	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> , 2006 , 37, 197	0.5	

- 1 Optimizing Oxide Mixing Ratio for Achieving Energy-Efficient Oxide Thin-Film Transistors. *Physica Status Solidi (A) Applications and Materials Science*, **2021**, 218, 2000750 1.6