

Byeong-Kwon Ju

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4845573/publications.pdf>

Version: 2024-02-01

225
papers

3,431
citations

126708

33
h-index

205818

48
g-index

233
all docs

233
docs citations

233
times ranked

5300
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive PbS quantum-dot-sensitized InGaZnO hybrid photoinverter for near-infrared detection and imaging with high photogain. <i>NPG Asia Materials</i> , 2016, 8, e233-e233.	3.8	129
2	A wearable piezocapacitive pressure sensor with a single layer of silver nanowire-based elastomeric composite electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10435-10443.	5.2	120
3	Plasmonic Color Filter and its Fabrication for Large Area Applications. <i>Advanced Optical Materials</i> , 2013, 1, 133-138.	3.6	110
4	Transparent InP Quantum Dot Light-Emitting Diodes with ZrO_2 Electron Transport Layer and Indium Zinc Oxide Top Electrode. <i>Advanced Functional Materials</i> , 2016, 26, 3454-3461.	7.8	84
5	Optically Switchable Smart Windows with Integrated Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2015, 5, 1401347.	10.2	81
6	Efficient suppression of charge trapping in ZnO-based transparent thin film transistors with novel $Al_2O_3 \cdot HfO_2 \cdot Al_2O_3$ structure. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	76
7	Heterojunction Based on Rh-Decorated WO_3 Nanorods for Morphological Change and Gas Sensor Application Using the Transition Effect. <i>Chemistry of Materials</i> , 2019, 31, 207-215.	3.2	71
8	Homeotropic alignment of liquid crystals on a nano-patterned polyimide surface using nanoimprint lithography. <i>Soft Matter</i> , 2011, 7, 5610.	1.2	70
9	Flash-induced nanowelding of silver nanowire networks for transparent stretchable electrochromic devices. <i>Scientific Reports</i> , 2018, 8, 2763.	1.6	70
10	Photoenhanced Patterning of Metal Nanowire Networks for Fabrication of Ultraflexible Transparent Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 480-489.	4.0	66
11	Simultaneous Enhancement of Upconversion and Downshifting Luminescence via Plasmonic Structure. <i>Nano Letters</i> , 2015, 15, 2491-2497.	4.5	64
12	Chiroptical Conjugated Polymer/Chiral Small Molecule Hybrid Thin Films for Circularly Polarized Light Detecting Heterojunction Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1808668.	7.8	64
13	Highly Stretchable and Waterproof Electroluminescence Device Based on Superstable Stretchable Transparent Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5486-5494.	4.0	63
14	Fabrication of Bismuth Telluride-Based Alloy Thin Film Thermoelectric Devices Grown by Metal Organic Chemical Vapor Deposition. <i>Journal of Electronic Materials</i> , 2009, 38, 920-924.	1.0	56
15	Metal-Insulator-Semiconductor Coaxial Microfibers Based on Self-Organization of Organic Semiconductor:Polymer Blend for Weavable, Fibriform Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 2706-2714.	7.8	52
16	Understanding Excess Li Storage beyond LiC_6 in Reduced Dimensional Scale Graphene. <i>ACS Nano</i> , 2021, 15, 797-808.	7.3	50
17	Electron beam irradiated silver nanowires for a highly transparent heater. <i>Scientific Reports</i> , 2016, 5, 17716.	1.6	49
18	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, 17409-17415.	4.0	48

#	ARTICLE	IF	CITATIONS
19	Silver Nanowire-IZO-Conducting Polymer Hybrids for Flexible and Transparent Conductive Electrodes for Organic Light-Emitting Diodes. <i>Scientific Reports</i> , 2016, 6, 34150.	1.6	47
20	Near-Infrared Self-Powered Linearly Polarized Photodetection and Digital Incoherent Holography Using WSe ₂ /ReSe ₂ van der Waals Heterostructure. <i>ACS Nano</i> , 2021, 15, 17917-17925.	7.3	46
21	High-Performance 2D MoS ₂ Phototransistor for Photo Logic Gate and Image Sensor. <i>ACS Photonics</i> , 2018, 5, 4745-4750.	3.2	43
22	Flexible Plasmonic Color Filters Fabricated via Nanotransfer Printing with Nanoimprint-Based Planarization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27351-27356.	4.0	41
23	Junction-Free Electrospun Ag Fiber Electrodes for Flexible Organic Light-Emitting Diodes. <i>Small</i> , 2018, 14, 1702567.	5.2	41
24	Organic thin film transistors using 6,13-bis(tri-isopropylsilylethynyl)pentacene embedded into polymer binders. <i>Applied Physics Letters</i> , 2009, 94, 013506.	1.5	40
25	Selective photonic sintering of Ag flakes embedded in silicone elastomers to fabricate stretchable conductors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11733-11740.	2.7	39
26	Morphological Evolution Induced through a Heterojunction of W-Decorated NiO Nanorings: Synergistic Effect on High-Performance Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7529-7538.	4.0	39
27	Light sintering of ultra-smooth and robust silver nanowire networks embedded in poly(vinyl-butyril) for flexible OLED. <i>Scientific Reports</i> , 2018, 8, 14170.	1.6	37
28	PEDOT:PSS-Based Temperature-Detection Thread for Wearable Devices. <i>Sensors</i> , 2018, 18, 2996.	2.1	37
29	Gas Sensing performance of composite materials using conducting polymer/single-walled carbon nanotubes. <i>Macromolecular Research</i> , 2012, 20, 143-146.	1.0	36
30	Heterogeneous Configuration of a Ag Nanowire/Polymer Composite Structure for Selectively Stretchable Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7505-7514.	4.0	36
31	Spin-orbit torques associated with ferrimagnetic order in Pt/GdFeCo/MgO layers. <i>Scientific Reports</i> , 2018, 8, 6017.	1.6	36
32	Terahertz imaging with metamaterials for biological applications. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 130993.	4.0	36
33	Structural and Magnetic Properties of NiZn Ferrite Nanoparticles Synthesized by a Thermal Decomposition Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6279.	1.3	35
34	Flexible and Transparent Organic Phototransistors on Biodegradable Cellulose Nanofibrillated Fiber Substrates. <i>Advanced Optical Materials</i> , 2018, 6, 1701140.	3.6	34
35	Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation. <i>Small</i> , 2019, 15, e1902065.	5.2	34
36	An extremely low-index photonic crystal layer for enhanced light extraction from organic light-emitting diodes. <i>Nanoscale</i> , 2016, 8, 4113-4120.	2.8	33

#	ARTICLE	IF	CITATIONS
37	A 6,13-bis(Triisopropylsilylethynyl) Pentacene Thin-Film Transistor Using a Spun-On Inorganic Gate-Dielectric. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 500-505.	1.6	31
38	Downsizing gas sensors based on semiconducting metal oxide: Effects of electrodes on gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 949-956.	4.0	31
39	Light Extraction Enhancement in Flexible Organic Light-Emitting Diodes by a Light-Scattering Layer of Dewetted Ag Nanoparticles at Low Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32373-32379.	4.0	31
40	Transparent, pressure-sensitive, and healable e-skin from a UV-cured polymer comprising dynamic urea bonds. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3101-3111.	5.2	31
41	Flexible touch sensor with finely patterned Ag nanowires buried at the surface of a colorless polyimide film. <i>RSC Advances</i> , 2015, 5, 42500-42505.	1.7	30
42	Carbon Nanotube-Based Triode Field Emission Lamps Using Metal Meshes With Spacers. <i>IEEE Electron Device Letters</i> , 2007, 28, 386-388.	2.2	28
43	Large-Area Printed Broadband Membrane Reflectors by Laser Interference Lithography. <i>IEEE Photonics Journal</i> , 2013, 5, 2200106-2200106.	1.0	28
44	Design and Experimental Investigation of Thermoelectric Generators for Wearable Applications. <i>Advanced Materials Technologies</i> , 2017, 2, 1600292.	3.0	28
45	Wearable Hand Module and Real-Time Tracking Algorithms for Measuring Finger Joint Angles of Different Hand Sizes with High Accuracy Using FBG Strain Sensor. <i>Sensors</i> , 2020, 20, 1921.	2.1	28
46	Extremely flexible, transparent, and strain-sensitive electroluminescent device based on ZnS:Cu-polyvinyl butyral composite and silver nanowires. <i>Applied Surface Science</i> , 2018, 429, 144-150.	3.1	27
47	A pressure-induced bending sensitive capacitor based on an elastomer-free, extremely thin transparent conductor. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3221-3229.	5.2	26
48	The annealing effects of tungsten oxide interlayer based on organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 203-208.	3.0	25
49	Enhanced efficiency of crystalline Si solar cells based on kerfless-thin wafers with nanohole arrays. <i>Scientific Reports</i> , 2018, 8, 3504.	1.6	25
50	Ultra-Facile Fabrication of Stretchable and Transparent Capacitive Sensor Employing Photo-Assisted Patterning of Silver Nanowire Networks. <i>Advanced Materials Technologies</i> , 2016, 1, 1600062.	3.0	24
51	Wide-gamut plasmonic color filters using a complementary design method. <i>Scientific Reports</i> , 2017, 7, 40649.	1.6	24
52	Silver Nanowire/Colorless-Polyimide Composite Electrode: Application in Flexible and Transparent Resistive Switching Memory. <i>Scientific Reports</i> , 2017, 7, 3438.	1.6	24
53	3D Printing of Self-Wiring Conductive Ink with High Stretchability and Stackability for Customized Wearable Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1900363.	3.0	24
54	A Multifunction Heterojunction Formed Between Pentacene and a Single-Crystal Silicon Nanomembrane. <i>Advanced Functional Materials</i> , 2013, 23, 3398-3403.	7.8	23

#	ARTICLE	IF	CITATIONS
55	Highly improved light extraction with a reduced spectrum distortion of organic light-emitting diodes composed by the sub-visible wavelength nano-scale periodic ($\lambda/4$ 250nm) structure and micro-lens array. <i>Organic Electronics</i> , 2014, 15, 111-117.	1.4	23
56	High-Performance Quantum Dot Thin-Film Transistors with Environmentally Benign Surface Functionalization and Robust Defect Passivation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3739-3749.	4.0	23
57	Development of a Carbon Nanotube-Based Touchscreen Capable of Multi-Touch and Multi-Force Sensing. <i>Sensors</i> , 2015, 15, 28732-28741.	2.1	22
58	Transparent Displays Utilizing Nanopatterned Quantum Dot Films. <i>Scientific Reports</i> , 2018, 8, 2463.	1.6	22
59	Terahertz optical characteristics of two types of metamaterials for molecule sensing. <i>Optics Express</i> , 2019, 27, 19042.	1.7	22
60	High-Performance Hybrid Buffer Layer Using 1,4,5,8,9,11-Hexaazatriphenylenehexacarbonitrile/Molybdenum Oxide in Inverted Top-Emitting Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6047-6053.	4.0	21
61	Simple method for fabricating scattering layer using random nanoscale rods for improving optical properties of organic light-emitting diodes. <i>Scientific Reports</i> , 2018, 8, 14311.	1.6	20
62	Harman Measurements for Thermoelectric Materials and Modules under Non-Adiabatic Conditions. <i>Scientific Reports</i> , 2016, 6, 39131.	1.6	19
63	High mobility organic transistor patterned by the shadow-mask with all structure on a plastic substrate. <i>Journal of Materials Science</i> , 2007, 42, 1026-1030.	1.7	18
64	Metal organic vapor phase epitaxy of BiSbTe ₃ films on (001) GaAs vicinal substrates. <i>Journal of Applied Physics</i> , 2006, 100, 123501.	1.1	17
65	Nano-arrayed OLEDs: enhanced outcoupling efficiency and suppressed efficiency roll-off. <i>Nanoscale</i> , 2018, 10, 19330-19337.	2.8	16
66	Enhanced analog synaptic behavior of SiNx/a-Si bilayer memristors through Ge implantation. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	16
67	Organic soluble deoxyribonucleic acid (DNA) bearing carbazole moieties and its blend with phosphorescent Ir(III) complexes. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1913-1918.	2.5	15
68	Photo-insensitive Amorphous Oxide Thin-Film Transistor Integrated with a Plasmonic Filter for Transparent Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 3482-3487.	7.8	15
69	Optical and Electrical Analysis of Annealing Temperature of High-Molecular Weight Hole Transport Layer for Quantum-dot Light-emitting Diodes. <i>Scientific Reports</i> , 2019, 9, 10385.	1.6	15
70	Enhanced optical efficiency and color purity for organic light-emitting diodes by finely optimizing parameters of nanoscale low-refractive index grid. <i>Scientific Reports</i> , 2020, 10, 5631.	1.6	15
71	High-performance coaxial piezoelectric energy generator (C-PEG) yarn of Cu/PVDF-TrFE/PDMS/Nylon/Ag. <i>Nanotechnology</i> , 2021, 32, 145401.	1.3	15
72	Enhanced light extraction efficiency and viewing angle characteristics of microcavity OLEDs by using a diffusion layer. <i>Scientific Reports</i> , 2021, 11, 3430.	1.6	15

#	ARTICLE	IF	CITATIONS
73	Highly stabilized flexible transparent capacitive photodetector based on silver nanowire/graphene hybrid electrodes. <i>Scientific Reports</i> , 2021, 11, 10499.	1.6	15
74	Highly soluble green-emitting Ir(III) complexes with 9-(6-phenylpyridin-3-ylmethyl)-9H-carbazole ligands and their application to polymer light-emitting diodes. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7419-7428.	2.5	14
75	High-Speed Colloidal Quantum Dot Photodiodes via Accelerating Charge Separation at Metal-Oxide Interface. <i>Small</i> , 2019, 15, e1900008.	5.2	14
76	Thermal degradation related to the PEDOT:PSS hole transport layer and back electrode of the flexible inverted organic photovoltaic module. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1974-1983.	2.5	14
77	Electrical energy generated by silicone elastomers filled with nanospring-carbon-nanotubes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3535-3542.	2.7	13
78	Fabrication and Characterization of a Capacitive Photodetector Comprising a ZnS/Cu Particle/Poly(vinyl butyral) Composite. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4416-4424.	4.0	13
79	Ag flake/silicone rubber composite with high stability and stretching speed insensitive resistance via conductive bridge formation. <i>Scientific Reports</i> , 2020, 10, 5036.	1.6	13
80	Green phosphorescent organic light-emitting diode exhibiting highest external quantum efficiency with ultra-thin undoped emission layer. <i>Scientific Reports</i> , 2021, 11, 8436.	1.6	13
81	The Effect of Noble Metals on Co Gas Sensing Properties of In ₂ O ₃ Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4903.	1.3	13
82	Top-gate staggered poly(3,3'-dialkyl-quarterthiophene) organic thin-film transistors with reverse-offset-printed silver source/drain electrodes. <i>Applied Physics Letters</i> , 2012, 101, 133306.	1.5	12
83	Role of n-dopant based electron injection layer in n-doped organic light-emitting diodes and its simple alternative. <i>Applied Physics Letters</i> , 2012, 100, 013312.	1.5	12
84	Improvement of light out-coupling in organic light-emitting diodes by printed nanosized random texture layer. <i>Organic Electronics</i> , 2013, 14, 187-192.	1.4	12
85	Nanoshuttered OLEDs: Unveiled Invisible Auxiliary Electrode. <i>Advanced Functional Materials</i> , 2014, 24, 6414-6421.	7.8	12
86	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.	1.3	12
87	Spin-Orbit Torque and Magnetic Damping in Tailored Ferromagnetic Bilayers. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
88	Sequential Improvement from Cosolvents Ink Formulation to Vacuum Annealing for Ink-Jet Printed Quantum-Dot Light-Emitting Diodes. <i>Materials</i> , 2020, 13, 4754.	1.3	12
89	Spin-polarized carrier injection through hybrid ferromagnetic electrode for enhanced optical efficiency of organic light-emitting diodes. <i>Organic Electronics</i> , 2020, 21, 105755.	1.4	12
90	Magnetic catalyst residues and their influence on the field electron emission characteristics of low temperature grown carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 083113.	1.5	11

#	ARTICLE	IF	CITATIONS
91	Correction of the Electrical and Thermal Extrinsic Effects in Thermoelectric Measurements by the Harman Method. <i>Scientific Reports</i> , 2016, 6, 26507.	1.6	11
92	Ionic-activated semiconducting gas sensors operated by piezoelectric generators at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129481.	4.0	11
93	Plasmonic Chromatic Electrode with Low Resistivity. <i>Scientific Reports</i> , 2017, 7, 15206.	1.6	10
94	Stretchable photodetector utilizing the change in capacitance formed in a composite film containing semiconductor particles. <i>Composites Science and Technology</i> , 2019, 182, 107773.	3.8	10
95	Enhanced Light Extraction from Organic Light-Emitting Diodes with Micro-Nano Hybrid Structure. <i>Nanomaterials</i> , 2022, 12, 1266.	1.9	10
96	Highly efficient tris(8-hydroxyquinoline) aluminum-based organic light-emitting diodes utilized by balanced energy transfer with cosensitizing fluorescent dyes. <i>Applied Physics Letters</i> , 2009, 95, 143305.	1.5	9
97	Analysis of Particle Movement by Dielectrophoretic Force for Reflective Electronic Display. <i>Journal of Display Technology</i> , 2016, 12, 747-752.	1.3	9
98	Impact of Bottom-Gate Biasing on Implant-Free Junctionless Ge-on-Insulator n-MOSFETs. <i>IEEE Electron Device Letters</i> , 2019, 40, 1362-1365.	2.2	9
99	Highly efficient flexible OLEDs based on double-sided nano-dimpled substrate (PVB) with embedded AgNWs and TiO ₂ nanoparticle for internal and external light extraction. <i>Optical Materials</i> , 2019, 92, 87-94.	1.7	9
100	Enhanced performance of organic photovoltaic devices by photo-crosslinkable buffer layer. <i>Macromolecular Research</i> , 2013, 21, 65-70.	1.0	8
101	Spectral-distortion-free light extraction from organic light-emitting diodes using nanoscale photonic crystal. <i>Nanotechnology</i> , 2017, 28, 045301.	1.3	8
102	Correlation of photoluminescent quantum efficiency and device characteristics for the soluble electrophosphorescent light emitter with interfacial layers. <i>Journal of Applied Physics</i> , 2008, 104, 024511.	1.1	7
103	Micro-pixel array of organic light-emitting diodes applying imprinting technique with a polymer replica. <i>Applied Physics Letters</i> , 2009, 95, 093301.	1.5	7
104	Transparent bipolar resistive switching memory on a flexible substrate with indium-zinc-oxide electrodes. <i>Journal of the Korean Physical Society</i> , 2016, 69, 1613-1618.	0.3	7
105	Development of high-sensitivity ambient light sensor based on cadmium sulfide-deposited surface acoustic wave sensor. <i>Sensors and Actuators A: Physical</i> , 2019, 293, 145-149.	2.0	7
106	Effects of Interfacial Oxidization on Magnetic Damping and Spin-Orbit Torques. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19414-19421.	4.0	7
107	Direct comparison with terahertz metamaterials and surface-enhanced Raman scattering in a molecular-specific sensing performance. <i>Optics Express</i> , 2021, 29, 12.	1.7	7
108	One-Step Combined-Nanolithography-and-Photolithography for a 2D Photonic Crystal TM Polarizer. <i>Micromachines</i> , 2014, 5, 228-238.	1.4	6

#	ARTICLE	IF	CITATIONS
109	Mechanochemical synthesis of ZnS for fabrication of transparent ceramics. <i>Research on Chemical Intermediates</i> , 2018, 44, 4721-4731.	1.3	6
110	Random nanohole arrays and its application to crystalline Si thin foils produced by proton induced exfoliation for solar cells. <i>Scientific Reports</i> , 2019, 9, 19736.	1.6	6
111	Modeling of flexible light extraction structure: Improved flexibility and optical efficiency for organic light-emitting diodes. <i>Organic Electronics</i> , 2020, 85, 105760.	1.4	6
112	Surface Acoustic Wave-Based Infrared Sensor With Aluminum Nitride Films Deposited. <i>IEEE Sensors Journal</i> , 2020, 20, 13277-13283.	2.4	6
113	Sensitive non-destructive real-time monitoring of blue OLED materials on extreme surface using terahertz near-field enhancement. <i>Applied Surface Science</i> , 2022, 584, 152611.	3.1	6
114	Parasitic Bipolar Junction Transistors in a Floating-Gate MOSFET for Fluorescence Detection. <i>IEEE Electron Device Letters</i> , 2007, 28, 581-583.	2.2	5
115	Self-assembled microarray of organic light-emitting diodes using a self-assembled monolayer by microcontact printing. <i>Applied Physics Letters</i> , 2009, 95, 113310.	1.5	5
116	One-eighth look-up table method for effectively generating computer-generated hologram patterns. <i>Optical Engineering</i> , 2014, 53, 054108.	0.5	5
117	Localized-surface-plasmon-enhanced multifunction silicon nanomembrane Schottky diodes based on Au nanoparticles. <i>Nanotechnology</i> , 2015, 26, 485501.	1.3	5
118	Lanthanide complexes embedded in silicone resin as a spectral converter for solar cells. <i>Research on Chemical Intermediates</i> , 2018, 44, 4733-4744.	1.3	5
119	Modified laser-fired contact process for efficient PERC solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 1092-1103.	4.4	5
120	Design of Transparent Multicolor LED Signage with an Oxide-Metal-Oxide Interconnect Electrode. <i>Journal of the Korean Physical Society</i> , 2020, 77, 82-86.	0.3	5
121	Effect of Time-Dependent Characteristics of ZnO Nanoparticles Electron Transport Layer Improved by Intense-Pulsed Light Post-Treatment on Hole-Electron Injection Balance of Quantum-Dot Light-Emitting Diodes. <i>Materials</i> , 2020, 13, 5041.	1.3	5
122	Control of Particle Size in Flame Spray Pyrolysis of Tb ³⁺ -doped Y ₂ O ₃ for Bio-Imaging. <i>Materials</i> , 2020, 13, 2987.	1.3	5
123	A Simple Method for Fabricating an External Light Extraction Composite Layer with RNS to Improve the Optical Properties of OLEDs. <i>Nanomaterials</i> , 2022, 12, 1430.	1.9	5
124	Complex spatial light modulation capability of a dual layer in-plane switching liquid crystal panel. <i>Scientific Reports</i> , 2022, 12, 8277.	1.6	5
125	Scaling down of amorphous indium gallium zinc oxide thin film transistors on the polyethersulfone substrate employing the protection layer of parylene-C for the large-scale integration. <i>Applied Physics Letters</i> , 2010, 96, 243504.	1.5	4
126	Gas sensor for CO and NH ₃ using polyaniline/CNTs composite at room temperature. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
127	Dual nanotransfer printing for complementary plasmonic biosensors. <i>Nanotechnology</i> , 2019, 30, 385302.	1.3	4
128	Ag-fiber/graphene hybrid electrodes for highly flexible and transparent optoelectronic devices. <i>Scientific Reports</i> , 2020, 10, 5117.	1.6	4
129	Co-solvented solution filling and interfacial phenomena of sublimation transferred emitting layer for high-resolution OLED fabrication. <i>APL Materials</i> , 2021, 9, 101115.	2.2	4
130	Optimization of structured illumination microscopy with designing and rotating a grid pattern using a spatial light modulator. <i>Optical Engineering</i> , 2019, 58, 1.	0.5	4
131	Facile fabrication of flexible metal grid transparent electrode using inkjet-printed dot array as sacrificial layer. <i>Scientific Reports</i> , 2022, 12, 1572.	1.6	4
132	Flexible external light extraction in organic light-emitting diodes by porous PDMS film fabricated by high-pressure steam process. <i>Organic Electronics</i> , 2022, 108, 106575.	1.4	4
133	Structural Characteristics of Bi ₂ Te ₃ and Sb ₂ Te ₃ films on (001) GaAs Substrates grown by MOCVD. , 2006, , .		3
134	Characterization of a passivation layer comprising MgO _i SiO ₂ and ZrO ₂ . <i>Surface and Interface Analysis</i> , 2007, 39, 64-68.	0.8	3
135	Syntheses and photophysical properties of new carbazole-based conjugated multi-branched molecules. <i>Macromolecular Research</i> , 2007, 15, 595-600.	1.0	3
136	Synthesis and Characterization of π -Conjugated Multi-branched Molecules Bearing Carbazole and Phenothiazine Peripheral Groups. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 491, 80-87.	0.4	3
137	The effect of surface treatments on the field emission characteristics of patterned carbon nanotubes on KOVAR substrate. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	3
138	Carbon-nanotube-based flexible devices using a mechanical transfer method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2082-2086.	0.8	3
139	Flexible Nanocomposite Generator Using $\langle \text{PZT} \rangle$ Nanorods and Ag Nanowires. <i>International Journal of Applied Ceramic Technology</i> , 2016, 13, 480-486.	1.1	3
140	Extraction of Light Using Random Nanocone on Poly(vinyl-butyril) for Flexible OLEDs. <i>Scientific Reports</i> , 2019, 9, 12312.	1.6	3
141	Enhanced light extraction from organic light-emitting diodes using a quasi-periodic nano-structure. <i>Nanotechnology</i> , 2019, 30, 085302.	1.3	3
142	Self-catalytic-grown SnO _x nanocones for light outcoupling enhancement in organic light-emitting diodes. <i>Nanotechnology</i> , 2020, 31, 135204.	1.3	3
143	Improving the optical properties of organic light-emitting diodes using random nanoscale rods with a double refractive index. <i>Nanotechnology</i> , 2020, 31, 335205.	1.3	3
144	Carrier-type modulation of tungsten diselenide (WSe ₂) field-effect transistors (FETs) via benzyl viologen (BV) doping. <i>Chemical Physics Letters</i> , 2021, 770, 138453.	1.2	3

#	ARTICLE	IF	CITATIONS
145	Analysis and simulation of reddish overshoot in active matrix organic light-emitting diode display with varying p-doped hole transport layer concentrations. <i>Organic Electronics</i> , 2021, 99, 106328.	1.4	3
146	Three-dimensional mesostructured single crystalline Fe ₃ O ₄ for ultrafast electrochemical capacitor electrode with AC line filtering performance. <i>International Journal of Energy Research</i> , 0, , .	2.2	3
147	Phosphine-Free-Synthesized ZnSe/ZnS Core/Shell Quantum Dots for White Light-Emitting Diodes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10060.	1.3	3
148	Random rubbed structure for enhanced light extraction in organic light-emitting diodes. <i>Journal of Luminescence</i> , 2022, 243, 118670.	1.5	3
149	Cavity-dumped mode-locked Alexandrite laser oscillator with 100 mj pulses stabilized by using a double trigger system. <i>Optics Express</i> , 2022, 30, 3516.	1.7	3
150	Improvement of porous polysilicon nano-structured emitter for vacuum packaged devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2005, 16, 125-130.	1.1	2
151	Simple and sensitive method of microcantilever-based DNA detection using nanoparticles conjugates. , 2008, , .		2
152	Fabrication of 6,13-bis(triisopropylsilylethynyl)pentacene thin-film transistors with the silver ink transfer method using a polymer stamp. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 101-103.	1.2	2
153	Carbon nanotube field emitters on KOVAR substrate modified by random pattern. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	2
154	P-172L:Late-News Poster: Enhanced Efficiency and Low Haze in Organic Light-Emitting Diodes by Nanoscale Corrugation. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 1699-1701.	0.1	2
155	Modeling large permittivity of poly(vinylidene fluoride-co-trifluoroethylene) and nanospring single-walled carbon nanotube-polyvinylpyrrolidone nanocomposites. <i>AIP Advances</i> , 2018, 8, 085113.	0.6	2
156	Internal Light-Extraction Layers with Different Refractive Indices for Organic Light-Emitting Diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800833.	0.8	2
157	Reduced Efficiency Roll-Off in Phosphorescent Organic Light-Emitting Diodes with a Double Dopant. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6679-6682.	0.9	2
158	Oxidation-resistant Cu-based metallisation for Si solar cells. <i>Energy Science and Engineering</i> , 0, , .	1.9	2
159	Air Annealing Process for Threshold Voltage Tuning of MoTe ₂ FET. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3840.	1.3	2
160	High-Resolution Patterning of Organic Emitting-Layer by Using Inkjet Printing and Sublimation Transfer Process. <i>Nanomaterials</i> , 2022, 12, 1611.	1.9	2
161	LTPS Pixel Driving Scheme to Improve Motion Blur for AMOLED Displays. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 4950-4957.	1.6	2
162	Investigation of magnetic properties of Pt/CoFeB/MgO layers using angle-resolved spin-torque ferromagnetic resonance spectroscopy. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	2

#	ARTICLE	IF	CITATIONS
163	Technology development of silicon based CMOS tactile sensor for robotics applications. , 2006, , .		1
164	Numerical Simulation and Thermal Failure Analysis of SOM Package. , 2007, , .		1
165	Design of a multi-walled carbon nanotubes vacuum gauge. , 2009, , .		1
166	Detection of CO and NH ₃ mixed gas using single-walled carbon nanotubes. , 2010, , .		1
167	Modified hybrid input-output algorithm for phase retrieval. , 2012, , .		1
168	P.61: Mold Transfer Processed Organic Light Emitting Diodes using Patterned Conductive Polymer Electrode. Digest of Technical Papers SID International Symposium, 2013, 44, 1226-1228.	0.1	1
169	P.146: Enhancing Light Extraction with a Reduced Spectrum Distortion of Organic Light Emitting Diodes by Employing Nano-scale Periodic Structure. Digest of Technical Papers SID International Symposium, 2014, 45, 1533-1535.	0.1	1
170	Energy Harvesting: Optically Switchable Smart Windows with Integrated Photovoltaic Devices (Adv.) Tj ETQq0 0 0 rBT /Overlock 10 Tf	10.2	1
171	Optical Reconstruction of Full-color Optical Scanning Holography Images using an Iterative Direct Binary Search Algorithm. Journal of the Korean Physical Society, 2018, 73, 1845-1848.	0.3	1
172	Microcavity characteristics analysis of micro-shuttered organic light-emitting diodes. Thin Solid Films, 2019, 692, 137643.	0.8	1
173	Solution Processable, Flexible, and Transparent Hybrid Electrodes Using Tungsten Oxide Buffer Layer on Silver Nanowires. Journal of Nanoscience and Nanotechnology, 2019, 19, 6197-6201.	0.9	1
174	Clumping Between Carbon Black and Titanium Dioxide Pigment by Water Vapor Absorption and Its Correlation with Electrophoretic Display. Journal of Nanoscience and Nanotechnology, 2019, 19, 6444-6451.	0.9	1
175	The Effects of the Rotational Speed of the Deposition Substrate on the Morphological and Current Injection Characteristics of LiF Thin Films. Journal of Nanoscience and Nanotechnology, 2021, 21, 4208-4211.	0.9	1
176	Emitting layer analysis of blue thermally activated delayed fluorescence devices using capacitance-voltage method. Current Applied Physics, 2021, 31, 46-51.	1.1	1
177	Polymer-Metal Composite Thin Film Microcap Packaging Technology Using Low Temperature SU-8 Bonding. Journal of Nanoscience and Nanotechnology, 2016, 16, 11613-11618.	0.9	1
178	Investigating the reliability of electrically conductive adhesives for shingled photovoltaic Si modules. Solar Energy Materials and Solar Cells, 2022, 236, 111403.	3.0	1
179	P-40: Field Emission Properties of 4.5 inch Triode Type Flat Lamp using the Screen Printing Method. Digest of Technical Papers SID International Symposium, 2005, 36, 422.	0.1	0
180	53.2: Characteristics of Field Emission from Printed Carbon Nanotubes by Physical Surface Treatments. Digest of Technical Papers SID International Symposium, 2005, 36, 1617.	0.1	0

#	ARTICLE	IF	CITATIONS
181	Flexible Tactile Sensor Fabricated using Polymer Membrane. , 2006, , .		0
182	Enhanced Surface Morphologies of Printed Carbon Nanotubes by Heat Treatment and Their Field Emission Properties. , 2006, , .		0
183	P-99: Field Emission Properties of Screen Printed CNT Film Morphology by Liquid Phase Method. Digest of Technical Papers SID International Symposium, 2007, 38, 577-579.	0.1	0
184	P-100: Field Emission Properties of Photosensitive Carbon Nanotube Using Ethanol. Digest of Technical Papers SID International Symposium, 2007, 38, 580-582.	0.1	0
185	P-152: Field Emission Properties of t-RNA Wrapped Carbon Nanotube Emitters. Digest of Technical Papers SID International Symposium, 2008, 39, 1774.	0.1	0
186	P-154: Optimized Field Emission of Multiwalled Carbon Nanotubes. Digest of Technical Papers SID International Symposium, 2008, 39, 1781.	0.1	0
187	Investigation of the Cause of a Malfunction in a Display Package and Its Solution. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 119-124.	1.4	0
188	P-104: Field Emission Properties of Carbon Nanotubes on Flexible Substrate. Digest of Technical Papers SID International Symposium, 2011, 42, 1495-1497.	0.1	0
189	P-65: Flexible Gas Barrier Technologies with Inorganic Nanolaminate, Surface Modifications and Its Measurements. Digest of Technical Papers SID International Symposium, 2011, 42, 1348-1350.	0.1	0
190	Field-emission X-ray sources with an anisotropic focusing lens for isotropic X-ray focal spots. , 2012, , .		0
191	The effect of Au nanoparticle on metal organic semiconductor field effect transistor on plastic substrate by transfer method. , 2012, , .		0
192	Field emission characteristics of patterned carbon nanotubes on metal substrate. , 2012, , .		0
193	Effect of surface treatment of substrate on field emission characteristics of carbon nanotubes. , 2012, , .		0
194	Enhancement of reconstructed image by noise reduction for mask inspection of EUVL (Extreme Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 2		0
195	P.143L: Late News Poster: Light Extraction in Organic Light Emitting Diodes using SF6/CHF3 Plasma Treated Random Pattern. Digest of Technical Papers SID International Symposium, 2013, 44, 1477-1479.	0.1	0
196	Printed silicon broadband membrane reflectors by laser interference lithography. , 2013, , .		0
197	P-145: Light Extraction from Organic Light Emitting Diode Lighting with Low Haze by Selective Microlens Arrays. Digest of Technical Papers SID International Symposium, 2014, 45, 1530-1532.	0.1	0
198	P-59: Electrically Highly Stable, Flexible, Transparent, and Conductive Hybrid Electrodes using Effective Indium Doped Zinc Oxide Buffer Layer on Silver Nanowires. Digest of Technical Papers SID International Symposium, 2014, 45, 1206-1208.	0.1	0

#	ARTICLE	IF	CITATIONS
199	Transparent Electronics: Photo-Insensitive Amorphous Oxide Thin-Film Transistor Integrated with a Plasmonic Filter for Transparent Electronics (Adv. Funct. Mater. 23/2014). Advanced Functional Materials, 2014, 24, 3481-3481.	7.8	0
200	P-151: Optical Efficiency Enhancement of Organic Light-Emitting Diode Based on a Nano-Sized Stripe Auxiliary Electrode. Digest of Technical Papers SID International Symposium, 2014, 45, 1551-1553.	0.1	0
201	P-137: Improved Light Extraction of Organic Light-Emitting Diodes using Embedded Nanoscale Vacuum Line Layer. Digest of Technical Papers SID International Symposium, 2015, 46, 1678-1679.	0.1	0
202	P-174L: <i>Late-News Poster</i>: Optimizing High Efficiency OLEDs Structure Based on Thermally Activated Delayed Fluorescence Emitter. Digest of Technical Papers SID International Symposium, 2015, 46, 1704-1706.	0.1	0
203	Eye-contact 3D visual communication through integral imaging-based display system. , 2015, , .		0
204	P-157: Improved Light Extraction from Organic Light-Emitting Diodes using High Refractive Index Nanostructure. Digest of Technical Papers SID International Symposium, 2016, 47, 1717-1719.	0.1	0
205	P-158: Enhanced Efficiency of Organic Light-Emitting Diodes by Inserting Nanosized Dot Pattern by Laser Interference Lithography. Digest of Technical Papers SID International Symposium, 2016, 47, 1720-1721.	0.1	0
206	P-197: Enhanced Out-coupling Efficiency of Organic Light-Emitting Diodes using Nano-sized Pixel Defining Layer. Digest of Technical Papers SID International Symposium, 2017, 48, 2006-2008.	0.1	0
207	P-179: Enhanced Light Extraction from Organic Light-Emitting Diodes using a Quasi-periodic Nanostructure. Digest of Technical Papers SID International Symposium, 2017, 48, 1947-1948.	0.1	0
208	P-194: Control of the Viewing Angle Dependence by Inserting of Scattering Layer on Microcavity OLEDs. Digest of Technical Papers SID International Symposium, 2017, 48, 1996-1998.	0.1	0
209	P-200: Characteristics of Thin Film Passivation Processed by a Low-temperature Process LAPECVD. Digest of Technical Papers SID International Symposium, 2017, 48, 2015-2017.	0.1	0
210	Wavelength tunable intra-cavity nonlinear polarization rotation mode-locked single pulse laser. , 2018, , .		0
211	Characterization of Degradation in Organic Light Emitting Diodes by Terahertz Spectroscopy. , 2018, , .		0
212	Multi-Mirror Alexandrite Laser Cavity Design with Thermal Lens Effect. , 2018, , .		0
213	P-185: Enhanced Light Extraction of Flexible Organic Light-Emitting Diodes by Ag Nanoparticles as Scattering Layer. Digest of Technical Papers SID International Symposium, 2018, 49, 1853-1855.	0.1	0
214	P-187: Ultra-smooth Silver Nanowires Flexible Transparent Electrode for Organic Light Emitting Diodes. Digest of Technical Papers SID International Symposium, 2018, 49, 1859-1861.	0.1	0
215	P-186: Extremely Long Length Electrospun Ag Fiber Electrodes for Flexible Organic Light Emitting Diodes. Digest of Technical Papers SID International Symposium, 2018, 49, 1856-1858.	0.1	0
216	Organic Phototransistors: Flexible and Transparent Organic Phototransistors on Biodegradable Cellulose Nanofibrillated Fiber Substrates (Advanced Optical Materials 9/2018). Advanced Optical Materials, 2018, 6, 1870037.	3.6	0

#	ARTICLE	IF	CITATIONS
217	Sensors/Biosensors: Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation (Small 40/2019). Small, 2019, 15, 1970214.	5.2	0
218	P&C214: Late&CNews Poster: Enhanced Out&Ccoupling Efficiency of Organic Light&CEmitting Diodes Using a Corrugated Microcavity Structure. Digest of Technical Papers SID International Symposium, 2019, 50, 1970-1972.	0.1	0
219	P&C211: Late&CNews Poster: Extremely Smooth Electrospun Ag Fiber Electrodes Embedded in PVB Flexible Substrate for Organic Light&CEmitting Diodes. Digest of Technical Papers SID International Symposium, 2019, 50, 1961-1962.	0.1	0
220	Precise control of nanoscale spacing between electrodes using different natured self-assembled monolayers. Nanotechnology, 2019, 30, 265302.	1.3	0
221	Solution process manufacture of a simple, multifunctional flexible sensor based on capacitance measurement. Nanotechnology, 2021, 32, 265503.	1.3	0
222	Color Tuning of 2-Color Based White Organic Light-Emitting Diodes with Undoped Ultra-Thin Emission Layer. Journal of Nanoscience and Nanotechnology, 2021, 21, 4179-4184.	0.9	0
223	Residual modulation reduction in optical sectioning using a suitable spatial light modulator waveform. Applied Optics, 2019, 58, 5883.	0.9	0
224	P&C170: Green Phosphorescent Organic Light&CEmitting Diodes with Ultra&Cthin Undoped Emission Layer of nearly 24% External Quantum Efficiency. Digest of Technical Papers SID International Symposium, 2020, 51, 2024-2026.	0.1	0
225	Design of structural coloration for full-color high-definition computer-generated holograms. Optics Express, 0, , .	1.7	0