

# Byeong-Kwon Ju

## List of Publications by Citations

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202  
papers

2,479  
citations

27  
h-index

40  
g-index

233  
ext. papers

2,962  
ext. citations

4.7  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
202	Plasmonic Color Filter and its Fabrication for Large-Area Applications. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 133-138	8.1	96
201	Ultrasensitive PbS quantum-dot-sensitized InGaZnO hybrid photoinverter for near-infrared detection and imaging with high photogain. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e233-e233	10.3	95
200	A wearable piezocapacitive pressure sensor with a single layer of silver nanowire-based elastomeric composite electrodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10435-10443	13	95
199	Transparent InP Quantum Dot Light-Emitting Diodes with ZrO <sub>2</sub> Electron Transport Layer and Indium Zinc Oxide Top Electrode. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3454-3461	15.6	71
198	Efficient suppression of charge trapping in ZnO-based transparent thin film transistors with novel Al <sub>2</sub> O <sub>3</sub> /HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> structure. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 192104	3.4	66
197	Optically Switchable Smart Windows with Integrated Photovoltaic Devices. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401347	21.8	61
196	Photoenhanced Patterning of Metal Nanowire Networks for Fabrication of Ultraflexible Transparent Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 480-9	9.5	61
195	Homeotropic alignment of liquid crystals on a nano-patterned polyimide surface using nanoimprint lithography. <i>Soft Matter</i> , <b>2011</b> , 7, 5610	3.6	60
194	Flash-induced nanowelding of silver nanowire networks for transparent stretchable electrochromic devices. <i>Scientific Reports</i> , <b>2018</b> , 8, 2763	4.9	56
193	Simultaneous enhancement of upconversion and downshifting luminescence via plasmonic structure. <i>Nano Letters</i> , <b>2015</b> , 15, 2491-7	11.5	53
192	Highly Stretchable and Waterproof Electroluminescence Device Based on Superstable Stretchable Transparent Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 5486-5494	9.5	48
191	Fabrication of Bismuth Telluride-Based Alloy Thin Film Thermoelectric Devices Grown by Metal Organic Chemical Vapor Deposition. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 920-924	1.9	48
190	Heterojunction Based on Rh-Decorated WO <sub>3</sub> Nanorods for Morphological Change and Gas Sensor Application Using the Transition Effect. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 207-215	9.6	46
189	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> , <b>2016</b> , 26, 2706-2714	15.6	40
188	Electron beam irradiated silver nanowires for a highly transparent heater. <i>Scientific Reports</i> , <b>2015</b> , 5, 17716	4.9	40
187	Silver Nanowire-IZO-Conducting Polymer Hybrids for Flexible and Transparent Conductive Electrodes for Organic Light-Emitting Diodes. <i>Scientific Reports</i> , <b>2016</b> , 6, 34150	4.9	38
186	Organic thin film transistors using 6,13-bis(tri-isopropylsilylethynyl)pentacene embedded into polymer binders. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 013506	3.4	38

185	Chiroptical-Conjugated Polymer/Chiral Small Molecule Hybrid Thin Films for Circularly Polarized Light-Detecting Heterojunction Devices. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808668	15.6	37
184	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
183	Gas Sensing performance of composite materials using conducting polymer/single-walled carbon nanotubes. <i>Macromolecular Research</i> , <b>2012</b> , 20, 143-146	1.9	31
182	An extremely low-index photonic crystal layer for enhanced light extraction from organic light-emitting diodes. <i>Nanoscale</i> , <b>2016</b> , 8, 4113-20	7.7	30
181	Flexible Plasmonic Color Filters Fabricated via Nanotransfer Printing with Nanoimprint-Based Planarization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27351-27356	9.5	30
180	Junction-Free Electrospun Ag Fiber Electrodes for Flexible Organic Light-Emitting Diodes. <i>Small</i> , <b>2018</b> , 14, 1702567	11	29
179	Selective photonic sintering of Ag flakes embedded in silicone elastomers to fabricate stretchable conductors. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 11733-11740	7.1	28
178	Flexible and Transparent Organic Phototransistors on Biodegradable Cellulose Nanofibrillated Fiber Substrates. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701140	8.1	28
177	Light sintering of ultra-smooth and robust silver nanowire networks embedded in poly(vinyl-butylal) for flexible OLED. <i>Scientific Reports</i> , <b>2018</b> , 8, 14170	4.9	28
176	Downsizing gas sensors based on semiconducting metal oxide: Effects of electrodes on gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 248, 949-956	8.5	27
175	Heterogeneous Configuration of a Ag Nanowire/Polymer Composite Structure for Selectively Stretchable Transparent Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7505-7514	9.5	26
174	A 6,13-bis(Triisopropylsilylethynyl) Pentacene Thin-Film Transistor Using a Spun-On Inorganic Gate-Dielectric. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 500-505	2.9	26
173	High-Performance 2D MoS <sub>2</sub> Phototransistor for Photo Logic Gate and Image Sensor. <i>ACS Photonics</i> , <b>2018</b> , 5, 4745-4750	6.3	26
172	Flexible touch sensor with finely patterned Ag nanowires buried at the surface of a colorless polyimide film. <i>RSC Advances</i> , <b>2015</b> , 5, 42500-42505	3.7	25
171	Spin-orbit torques associated with ferrimagnetic order in Pt/GdFeCo/MgO layers. <i>Scientific Reports</i> , <b>2018</b> , 8, 6017	4.9	25
170	Large-Area Printed Broadband Membrane Reflectors by Laser Interference Lithography. <i>IEEE Photonics Journal</i> , <b>2013</b> , 5, 2200106-2200106	1.8	25
169	The annealing effects of tungsten oxide interlayer based on organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 117, 203-208	6.4	24
168	A pressure-induced bending sensitive capacitor based on an elastomer-free, extremely thin transparent conductor. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3221-3229	13	24

167	Extremely flexible, transparent, and strain-sensitive electroluminescent device based on ZnS:Cu-polyvinyl butyral composite and silver nanowires. <i>Applied Surface Science</i> , <b>2018</b> , 429, 144-150	6.7	24
166	Morphological Evolution Induced through a Heterojunction of W-Decorated NiO Nanoigloos: Synergistic Effect on High-Performance Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7529-7538	9.5	23
165	Carbon Nanotube-Based Triode Field Emission Lamps Using Metal Meshes With Spacers. <i>IEEE Electron Device Letters</i> , <b>2007</b> , 28, 386-388	4.4	23
164	Understanding Excess Li Storage beyond LiC in Reduced Dimensional Scale Graphene. <i>ACS Nano</i> , <b>2021</b> , 15, 797-808	16.7	23
163	Design and Experimental Investigation of Thermoelectric Generators for Wearable Applications. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600292	6.8	22
162	Highly improved light extraction with a reduced spectrum distortion of organic light-emitting diodes composed by the sub-visible wavelength nano-scale periodic (~250 nm) structure and micro-lens array. <i>Organic Electronics</i> , <b>2014</b> , 15, 111-117	3.5	22
161	PEDOT:PSS-Based Temperature-Detection Thread for Wearable Devices. <i>Sensors</i> , <b>2018</b> , 18,	3.8	22
160	Wide-gamut plasmonic color filters using a complementary design method. <i>Scientific Reports</i> , <b>2017</b> , 7, 40649	4.9	21
159	Transparent, pressure-sensitive, and healable e-skin from a UV-cured polymer comprising dynamic urea bonds. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3101-3111	13	21
158	Development of a Carbon Nanotube-Based Touchscreen Capable of Multi-Touch and Multi-Force Sensing. <i>Sensors</i> , <b>2015</b> , 15, 28732-41	3.8	21
157	High-Performance Quantum Dot Thin-Film Transistors with Environmentally Benign Surface Functionalization and Robust Defect Passivation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3739-3749	9.5	20
156	Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation. <i>Small</i> , <b>2019</b> , 15, e1902065	11	20
155	A Multifunction Heterojunction Formed Between Pentacene and a Single-Crystal Silicon Nanomembrane. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3398-3403	15.6	20
154	Silver Nanowire/Colorless-Polyimide Composite Electrode: Application in Flexible and Transparent Resistive Switching Memory. <i>Scientific Reports</i> , <b>2017</b> , 7, 3438	4.9	19
153	Enhanced efficiency of crystalline Si solar cells based on kerfless-thin wafers with nanohole arrays. <i>Scientific Reports</i> , <b>2018</b> , 8, 3504	4.9	19
152	Ultra-Facile Fabrication of Stretchable and Transparent Capacitive Sensor Employing Photo-Assisted Patterning of Silver Nanowire Networks. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600062	6.8	19
151	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 &amp; Interfaces</i> , <b>2018</b> , 10, 32373-32379	9.5	19
150	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 &amp; Interfaces</i> , <b>2015</b> , 7, 6047-53	9.5	17

149	High mobility organic transistor patterned by the shadow-mask with all structure on a plastic substrate. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 1026-1030	4.3	17
148	Transparent Displays Utilizing Nanopatterned Quantum Dot Films. <i>Scientific Reports</i> , <b>2018</b> , 8, 2463	4.9	16
147	Near-Infrared Self-Powered Linearly Polarized Photodetection and Digital Incoherent Holography Using WSe/ReSe van der Waals Heterostructure. <i>ACS Nano</i> , <b>2021</b> ,	16.7	16
146	Organic soluble deoxyribonucleic acid (DNA) bearing carbazole moieties and its blend with phosphorescent Ir(III) complexes. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 1913-1918	2.5	15
145	Metal organic vapor phase epitaxy of BiSbTe <sub>3</sub> films on (001) GaAs vicinal substrates. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 123501	2.5	15
144	Photo-Insensitive Amorphous Oxide Thin-Film Transistor Integrated with a Plasmonic Filter for Transparent Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3482-3487	15.6	14
143	Terahertz optical characteristics of two types of metamaterials for molecule sensing. <i>Optics Express</i> , <b>2019</b> , 27, 19042-19049	3.3	14
142	Harman Measurements for Thermoelectric Materials and Modules under Non-Adiabatic Conditions. <i>Scientific Reports</i> , <b>2016</b> , 6, 39131	4.9	14
141	Simple method for fabricating scattering layer using random nanoscale rods for improving optical properties of organic light-emitting diodes. <i>Scientific Reports</i> , <b>2018</b> , 8, 14311	4.9	13
140	High-Speed Colloidal Quantum Dot Photodiodes via Accelerating Charge Separation at Metal-Oxide Interface. <i>Small</i> , <b>2019</b> , 15, e1900008	11	12
139	Nanoshuttered OLEDs: Unveiled Invisible Auxiliary Electrode. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6414-6421	15.6	12
138	Improvement of light out-coupling in organic light-emitting diodes by printed nanosized random texture layer. <i>Organic Electronics</i> , <b>2013</b> , 14, 187-192	3.5	12
137	Structural and Magnetic Properties of NiZn Ferrite Nanoparticles Synthesized by a Thermal Decomposition Method. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6279	2.6	12
136	Nano-arrayed OLEDs: enhanced outcoupling efficiency and suppressed efficiency roll-off. <i>Nanoscale</i> , <b>2018</b> , 10, 19330-19337	7.7	12
135	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> , <b>2020</b> , 20,	3.8	11
134	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> , <b>2012</b> , 101, 133306	3.4	11
133	Role of n-dopant based electron injection layer in n-doped organic light-emitting diodes and its simple alternative. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 013312	3.4	11
132	Highly soluble green-emitting Ir(III) complexes with 9-(6-phenyl-pyridin-3-ylmethyl)-9H-carbazole ligands and their application to polymer light-emitting diodes. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7419-7428	2.5	11

131	Magnetic catalyst residues and their influence on the field electron emission characteristics of low temperature grown carbon nanotubes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 083113	3.4	11
130	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
129	Electrical energy generated by silicone elastomers filled with nanospring-carbon-nanotubes. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3535-3542	7.1	10
128	Fabrication and Characterization of a Capacitive Photodetector Comprising a ZnS/Cu Particle/Poly(vinyl butyral) Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4416-4424	9.5	10
127	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> , <b>2020</b> , 10, 5631	4.9	9
126	Correction of the Electrical and Thermal Extrinsic Effects in Thermoelectric Measurements by the Harman Method. <i>Scientific Reports</i> , <b>2016</b> , 6, 26507	4.9	9
125	3D Printing of Self-Wiring Conductive Ink with High Stretchability and Stackability for Customized Wearable Devices. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900363	6.8	9
124	Optical and Electrical Analysis of Annealing Temperature of High-Molecular Weight Hole Transport Layer for Quantum-dot Light-emitting Diodes. <i>Scientific Reports</i> , <b>2019</b> , 9, 10385	4.9	9
123	Plasmonic Chromatic Electrode with Low Resistivity. <i>Scientific Reports</i> , <b>2017</b> , 7, 15206	4.9	9
122	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> , <b>2009</b> , 95, 143305	3.4	9
121	High-performance coaxial piezoelectric energy generator (C-PEG) yarn of Cu/PVDF-TrFE/PDMS/Nylon/Ag. <i>Nanotechnology</i> , <b>2021</b> , 32, 145401	3.4	9
120	Spin-Orbit Torque and Magnetic Damping in Tailored Ferromagnetic Bilayers. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	8
119	Enhanced performance of organic photovoltaic devices by photo-crosslinkable buffer layer. <i>Macromolecular Research</i> , <b>2013</b> , 21, 65-70	1.9	8
118	Spectral-distortion-free light extraction from organic light-emitting diodes using nanoscale photonic crystal. <i>Nanotechnology</i> , <b>2017</b> , 28, 045301	3.4	7
117	Stretchable photodetector utilizing the change in capacitance formed in a composite film containing semiconductor particles. <i>Composites Science and Technology</i> , <b>2019</b> , 182, 107773	8.6	7
116	Highly efficient flexible OLEDs based on double-sided nano-dimpled substrate (PVB) with embedded AgNWs and TiO <sub>2</sub> nanoparticle for internal and external light extraction. <i>Optical Materials</i> , <b>2019</b> , 92, 87-94	3.3	7
115	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> , <b>2020</b> , 4, 1974-1983	5.8	7
114	Impact of Bottom-Gate Biasing on Implant-Free Junctionless Ge-on-Insulator n-MOSFETs. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 1362-1365	4.4	7

113	Micro-pixel array of organic light-emitting diodes applying imprinting technique with a polymer replica. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 093301	3.4	7
112	Sequential Improvement from Cosolvents Ink Formulation to Vacuum Annealing for Ink-Jet Printed Quantum-Dot Light-Emitting Diodes. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
111	Enhanced light extraction efficiency and viewing angle characteristics of microcavity OLEDs by using a diffusion layer. <i>Scientific Reports</i> , <b>2021</b> , 11, 3430	4.9	7
110	Ag flake/silicone rubber composite with high stability and stretching speed insensitive resistance via conductive bridge formation. <i>Scientific Reports</i> , <b>2020</b> , 10, 5036	4.9	6
109	Correlation of photoluminescent quantum efficiency and device characteristics for the soluble electrophosphorescent light emitter with interfacial layers. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 024511	2.5	6
108	Transparent bipolar resistive switching memory on a flexible substrate with indium-zinc-oxide electrodes. <i>Journal of the Korean Physical Society</i> , <b>2016</b> , 69, 1613-1618	0.6	6
107	Development of high-sensitivity ambient light sensor based on cadmium sulfide-deposited surface acoustic wave sensor. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 293, 145-149	3.9	5
106	Enhanced analog synaptic behavior of SiNx/a-Si bilayer memristors through Ge implantation. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	5
105	Localized-surface-plasmon-enhanced multifunction silicon nanomembrane Schottky diodes based on Au nanoparticles. <i>Nanotechnology</i> , <b>2015</b> , 26, 485501	3.4	5
104	Parasitic Bipolar Junction Transistors in a Floating-Gate MOSFET for Fluorescence Detection. <i>IEEE Electron Device Letters</i> , <b>2007</b> , 28, 581-583	4.4	5
103	Spin-polarized carrier injection through hybrid ferromagnetic electrode for enhanced optical efficiency of organic light-emitting diodes. <i>Organic Electronics</i> , <b>2020</b> , 84, 105755	3.5	5
102	Mechanochemical synthesis of ZnS for fabrication of transparent ceramics. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 4721-4731	2.8	4
101	Analysis of Particle Movement by Dielectrophoretic Force for Reflective Electronic Display. <i>Journal of Display Technology</i> , <b>2016</b> , 12, 747-752		4
100	Self-assembled microarray of organic light-emitting diodes using a self-assembled monolayer by microcontact printing. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 113310	3.4	4
99	Terahertz imaging with metamaterials for biological applications. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 352, 130993	8.5	4
98	Direct comparison with terahertz metamaterials and surface-enhanced Raman scattering in a molecular-specific sensing performance. <i>Optics Express</i> , <b>2021</b> , 29, 12-23	3.3	4
97	Ionic-activated semiconducting gas sensors operated by piezoelectric generators at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 332, 129481	8.5	4
96	Highly stabilized flexible transparent capacitive photodetector based on silver nanowire/graphene hybrid electrodes. <i>Scientific Reports</i> , <b>2021</b> , 11, 10499	4.9	4

95	Modeling of flexible light extraction structure: Improved flexibility and optical efficiency for organic light-emitting diodes. <i>Organic Electronics</i> , <b>2020</b> , 85, 105760	3.5	3
94	One-Step Combined-Nanolithography-and-Photolithography for a 2D Photonic Crystal TM Polarizer. <i>Micromachines</i> , <b>2014</b> , 5, 228-238	3.3	3
93	Carbon-nanotube-based flexible devices using a mechanical transfer method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 2082-2086	1.6	3
92	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> , <b>2010</b> , 96, 243504	3.4	3
91	Gas sensor for CO and NH <sub>3</sub> using polyaniline/CNTs composite at room temperature <b>2010</b> ,		3
90	Synthesis and Characterization of $\pi$ -Conjugated Multi-branched Molecules Bearing Carbazole and Phenothiazine Peripheral Groups. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 491, 80-87	0.5	3
89	Characterization of a passivation layer comprising MgO/SiO <sub>2</sub> and ZrO <sub>2</sub> . <i>Surface and Interface Analysis</i> , <b>2007</b> , 39, 64-68	1.5	3
88	Syntheses and photophysical properties of new carbazole-based conjugated multi-branched molecules. <i>Macromolecular Research</i> , <b>2007</b> , 15, 595-600	1.9	3
87	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> , <b>2020</b> , 13,	3.5	3
86	Flexible Nanocomposite Generator Using PZT Nanorods and Ag Nanowires. <i>International Journal of Applied Ceramic Technology</i> , <b>2016</b> , 13, 480-486	2	3
85	Random nanohole arrays and its application to crystalline Si thin foils produced by proton induced exfoliation for solar cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 19736	4.9	3
84	Ag-fiber/graphene hybrid electrodes for highly flexible and transparent optoelectronic devices. <i>Scientific Reports</i> , <b>2020</b> , 10, 5117	4.9	2
83	Lanthanide complexes embedded in silicone resin as a spectral converter for solar cells. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 4733-4744	2.8	2
82	Carbon nanotube field emitters on KOVAR substrate modified by random pattern. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	2
81	One-eighth look-up table method for effectively generating computer-generated hologram patterns. <i>Optical Engineering</i> , <b>2014</b> , 53, 054108	1.1	2
80	The effect of surface treatments on the field emission characteristics of patterned carbon nanotubes on KOVAR substrate. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	2
79	Fabrication of 6,13-bis(triisopropyl-silylethynyl)pentacene thin-film transistors with the silver ink transfer method using a polymer stamp. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 101-103	2.5	2
78	Simple and sensitive method of microcantilever-based DNA detection using nanoparticles conjugates <b>2008</b> ,		2



77	Structural Characteristics of Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> films on (001) GaAs Substrates grown by MOCVD <b>2006,</b>		2
76	Improvement of porous polysilicon nano-structured emitter for vacuum packaged devices. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2005</b> , 16, 125-130	2.1	2
75	Cavity-dumped mode-locked Alexandrite laser oscillator with 100 mJ pulses stabilized by using a double trigger system.. <i>Optics Express</i> , <b>2022</b> , 30, 3516-3523	3.3	2
74	Random rubbed structure for enhanced light extraction in organic light-emitting diodes. <i>Journal of Luminescence</i> , <b>2022</b> , 243, 118670	3.8	2
73	Self-catalytic-grown SnO nanocones for light outcoupling enhancement in organic light-emitting diodes. <i>Nanotechnology</i> , <b>2020</b> , 31, 135204	3.4	2
72	Carrier-type modulation of tungsten diselenide (WSe <sub>2</sub> ) field-effect transistors (FETs) via benzyl viologen (BV) doping. <i>Chemical Physics Letters</i> , <b>2021</b> , 770, 138453	2.5	2
71	Enhanced light extraction from organic light-emitting diodes using a quasi-periodic nano-structure. <i>Nanotechnology</i> , <b>2019</b> , 30, 085302	3.4	2
70	Extraction of Light Using Random Nanocone on Poly(vinyl-butyril) for Flexible OLEDs. <i>Scientific Reports</i> , <b>2019</b> , 9, 12312	4.9	1
69	Dual nanotransfer printing for complementary plasmonic biosensors. <i>Nanotechnology</i> , <b>2019</b> , 30, 385302	3.4	1
68	Internal Light-Extraction Layers with Different Refractive Indices for Organic Light-Emitting Diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800833	1.6	1
67	Solution Processable, Flexible, and Transparent Hybrid Electrodes Using Tungsten Oxide Buffer Layer on Silver Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 6197-6201	1.3	1
66	Improving the optical properties of organic light-emitting diodes using random nanoscale rods with a double refractive index. <i>Nanotechnology</i> , <b>2020</b> , 31, 335205	3.4	1
65	Surface Acoustic Wave-Based Infrared Sensor With Aluminum Nitride Films Deposited. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 13277-13283	4	1
64	Modeling large permittivity of poly(vinylidene fluoride-co-trifluoroethylene) and nanospring single-walled carbon nanotube-polyvinylpyrrolidone nanocomposites. <i>AIP Advances</i> , <b>2018</b> , 8, 085113	1.5	1
63	Modified laser-fired contact process for efficient PERC solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2019</b> , 27, 1092-1103	6.8	1
62	Microcavity characteristics analysis of micro-shuttered organic light-emitting diodes. <i>Thin Solid Films</i> , <b>2019</b> , 692, 137643	2.2	1
61	P.61: Mold Transfer Processed Organic Light Emitting Diodes using Patterned Conductive Polymer Electrode. <i>Digest of Technical Papers SID International Symposium</i> , <b>2013</b> , 44, 1226-1228	0.5	1
60	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> , <b>2015</b> , 46, 1699-1701	0.5	1

59	P-146: Enhancing Light Extraction with a Reduced Spectrum Distortion of Organic Light-Emitting Diodes by Employing Nano-Scale Periodic Structure. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 1533-1535	0.5	1
58	Modified hybrid input-output algorithm for phase retrieval <b>2012</b> ,		1
57	Detection of CO and NH3 mixed gas using single-walled carbon nanotubes <b>2010</b> ,		1
56	Design of a multi-walled carbon nanotubes vacuum gauge <b>2009</b> ,		1
55	Technology development of silicon based CMOS tactile sensor for robotics applications <b>2006</b> ,		1
54	Optimization of structured illumination microscopy with designing and rotating a grid pattern using a spatial light modulator. <i>Optical Engineering</i> , <b>2019</b> , 58, 1	1.1	1
53	Polymer-Metal Composite Thin Film Microcap Packaging Technology Using Low Temperature SU-8 Bonding. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 11613-11618	1.3	1
52	Design of Transparent Multicolor LED Signage with an Oxide-Metal-Oxide Interconnect Electrode. <i>Journal of the Korean Physical Society</i> , <b>2020</b> , 77, 82-86	0.6	1
51	Control of Particle Size in Flame Spray Pyrolysis of Tb-doped YO for Bio-Imaging. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
50	Reduced Efficiency Roll-Off in Phosphorescent Organic Light-Emitting Diodes with a Double Dopant. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 6679-6682	1.3	1
49	Green phosphorescent organic light-emitting diode exhibiting highest external quantum efficiency with ultra-thin undoped emission layer. <i>Scientific Reports</i> , <b>2021</b> , 11, 8436	4.9	1
48	The Effect of Noble Metals on Co Gas Sensing Properties of In2O3 Nanoparticles. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4903	2.6	1
47	Optical Reconstruction of Full-color Optical Scanning Holography Images using an Iterative Direct Binary Search Algorithm. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 73, 1845-1848	0.6	1
46	Emitting layer analysis of blue thermally activated delayed fluorescence devices using capacitance-voltage method. <i>Current Applied Physics</i> , <b>2021</b> , 31, 46-51	2.6	1
45	Air Annealing Process for Threshold Voltage Tuning of MoTe2 FET. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3840	2.6	1
44	Clumping Between Carbon Black and Titanium Dioxide Pigment by Water Vapor Absorption and Its Correlation with Electrophoretic Display. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 6444-6451 <sup>1,3</sup>		0
43	Sensitive non-destructive real-time monitoring of blue OLED materials on extreme surface using terahertz near-field enhancement. <i>Applied Surface Science</i> , <b>2022</b> , 584, 152611	6.7	0
42	Investigating the reliability of electrically conductive adhesives for shingled photovoltaic Si modules. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 236, 111403	6.4	0

41	Co-solvent solution filling and interfacial phenomena of sublimation transferred emitting layer for high-resolution OLED fabrication. <i>APL Materials</i> , <b>2021</b> , 9, 101115	5.7	o
40	Phosphine-Free-Synthesized ZnSe/ZnS Core/Shell Quantum Dots for White Light-Emitting Diodes. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 10060	2.6	o
39	Effects of Interfacial Oxidization on Magnetic Damping and Spin-Orbit Torques. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19414-19421	9.5	o
38	The Effects of the Rotational Speed of the Deposition Substrate on the Morphological and Current Injection Characteristics of LiF Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2021</b> , 21, 4208-4214	1.3	o
37	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> , <b>2021</b> , 99, 106328	3.5	o
36	P-197: Enhanced Out-coupling Efficiency of Organic Light-Emitting Diodes using Nano-sized Pixel Defining Layer. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 2006-2008	0.5	
35	P-179: Enhanced Light Extraction from Organic Light-Emitting Diodes using a Quasi-periodic Nanostructure. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 1947-1948	0.5	
34	P-194: Control of the Viewing Angle Dependence by Inserting of Scattering Layer on Microcavity OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 1996-1998	0.5	
33	P-214: Late-News Poster: Enhanced Out-coupling Efficiency of Organic Light-emitting Diodes Using a Corrugated Microcavity Structure. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 1970-1972	0.5	
32	P-211: Late-News Poster: Extremely Smooth Electrospun Ag Fiber Electrodes Embedded in PVB Flexible Substrate for Organic Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 1961-1962	0.5	
31	Precise control of nanoscale spacing between electrodes using different natured self-assembled monolayers. <i>Nanotechnology</i> , <b>2019</b> , 30, 265302	3.4	
30	P-187: Ultra-smooth Silver Nanowires Flexible Transparent Electrode for Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 1859-1861	0.5	
29	P-186: Extremely Long Length Electrospun Ag Fiber Electrodes for Flexible Organic Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2018</b> , 49, 1856-1858	0.5	
28	Organic Phototransistors: Flexible and Transparent Organic Phototransistors on Biodegradable Cellulose Nanofibrillated Fiber Substrates (Advanced Optical Materials 9/2018). <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1870037	8.1	
27	Sensors/Biosensors: Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation (Small 40/2019). <i>Small</i> , <b>2019</b> , 15, 1970214	11	
26	Transparent Electronics: Photo-Insensitive Amorphous Oxide Thin-Film Transistor Integrated with a Plasmonic Filter for Transparent Electronics (Adv. Funct. Mater. 23/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3481-3481	15.6	
25	P-151: Optical Efficiency Enhancement of Organic Light-Emitting Diode Based on a Nano-Sized Stripe Auxiliary Electrode. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 1551-1553	0.5	
24	P-200: Characteristics of Thin Film Passivation Processed by a Low-temperature Process LAPECVD. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 2015-2017	0.5	

23	P-137: Improved Light Extraction of Organic Light-Emitting Diodes using Embedded Nanoscale Vacuum Line Layer. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 1678-1679	0.5
22	P-174L: Late-News Poster: Optimizing High Efficiency OLEDs Structure Based on Thermally Activated Delayed Fluorescence Emitter. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 1704-1706	0.5
21	P-145: Light Extraction from Organic Light Emitting Diode Lighting with Low Haze by Selective Microlens Arrays. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 1530-1532	0.5
20	P-59: Electrically Highly Stable, Flexible, Transparent, and Conductive Hybrid Electrodes using Effective Indium-Doped Zinc Oxide Buffer Layer on Silver Nanowires. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 1206-1208	0.5
19	P.143L: Late-News Poster: Light Extraction in Organic Light Emitting Diodes using SF6/CHF3 Plasma Treated Random Pattern. <i>Digest of Technical Papers SID International Symposium</i> , <b>2013</b> , 44, 1477-1479	0.5
18	Investigation of the Cause of a Malfunction in a Display Package and Its Solution. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2011</b> , 1, 119-124	1.7
17	P-104: Field Emission Properties of Carbon Nanotubes on Flexible Substrate. <i>Digest of Technical Papers SID International Symposium</i> , <b>2011</b> , 42, 1495-1497	0.5
16	P-65: Flexible Gas-Barrier Technologies with Inorganic Nanolaminate, Surface Modifications and Its Measurements. <i>Digest of Technical Papers SID International Symposium</i> , <b>2011</b> , 42, 1348-1350	0.5
15	P-152: Field Emission Properties of t-RNA Wrapped Carbon Nanotube Emitters. <i>Digest of Technical Papers SID International Symposium</i> , <b>2008</b> , 39, 1774	0.5
14	P-154: Optimized Field Emission of Multiwalled Carbon Nanotubes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2008</b> , 39, 1781	0.5
13	P-99: Field-Emission Properties of Screen-Printed CNT Film Morphology by Liquid-Phase Method. <i>Digest of Technical Papers SID International Symposium</i> , <b>2007</b> , 38, 577-579	0.5
12	P-100: Field-Emission Properties of Photosensitive Carbon Nanotube Using Ethanol. <i>Digest of Technical Papers SID International Symposium</i> , <b>2007</b> , 38, 580-582	0.5
11	P-40: Field Emission Properties of 4.5 inch Triode Type Flat Lamp using the Screen Printing Method. <i>Digest of Technical Papers SID International Symposium</i> , <b>2005</b> , 36, 422	0.5
10	53.2: Characteristics of Field Emission from Printed Carbon Nanotubes by Physical Surface Treatments. <i>Digest of Technical Papers SID International Symposium</i> , <b>2005</b> , 36, 1617	0.5
9	Facile fabrication of flexible metal grid transparent electrode using inkjet-printed dot array as sacrificial layer.. <i>Scientific Reports</i> , <b>2022</b> , 12, 1572	4.9
8	Multi-planar imaging using the thermal lensing effect. <i>Applied Optics</i> , <b>2019</b> , 58, 5883-5891	1.7
7	P-170: Green Phosphorescent Organic Light-Emitting Diodes with Ultra-thin Undoped Emission Layer of nearly 24% External Quantum Efficiency. <i>Digest of Technical Papers SID International Symposium</i> , <b>2020</b> , 51, 2024-2026	0.5
6	Solution process manufacture of a simple, multifunctional flexible sensor based on capacitance measurement. <i>Nanotechnology</i> , <b>2021</b> , 32, 265503	3.4

- 5 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 0.5
- 4 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 0.5
- 3 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 0.5
- 2 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 1.3
- 1 Complex spatial light modulation capability of a dual layer in-plane switching liquid crystal panel.. *Scientific Reports, 2022*, 12, 8277 4.9