Seung Hwan Ko

List of Publications by Citations

232 papers	13,718 citations	58 h-index	112 g-index
255 ext. papers	16,057 ext. citations	8.8 avg, IF	6.56 L-index

#	Paper	IF	Citations
232	Nanoforest of hydrothermally grown hierarchical ZnO nanowires for a high efficiency dye-sensitized solar cell. *Nano Letters*, **2011**, 11, 666-71	11.5	886
231	Highly stretchable and highly conductive metal electrode by very long metal nanowire percolation network. *Advanced Materials*, **2012**, 24, 3326-32	24	778
230	Very long Ag nanowire synthesis and its application in a highly transparent, conductive and flexible metal electrode touch panel. *Nanoscale*, **2012**, 4, 6408-14	7.7	581
229	All-inkjet-printed flexible electronics fabrication on a polymer substrate by low-temperature high-resolution selective laser sintering of metal nanoparticles. *Nanotechnology*, **2007**, 18, 345202	3.4	560
228	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. *Advanced Materials*, **2015**, 27, 4744-51	24	541
227	Highly Sensitive and Stretchable Multidimensional Strain Sensor with Prestrained Anisotropic Metal Nanowire Percolation Networks. *Nano Letters*, **2015**, 15, 5240-7	11.5	417
226	Room-Temperature Nanosoldering of a Very Long Metal Nanowire Network by Conducting-Polymer-Assisted Joining for a Flexible Touch-Panel Application. *Advanced Functional Materials*, **2013**, 23, 4171-4176	15.6	394
225	Fast plasmonic laser nanowelding for a Cu-nanowire percolation network for flexible transparent conductors and stretchable electronics. *Advanced Materials*, **2014**, 26, 5808-14	24	345
224	Nonvacuum, maskless fabrication of a flexible metal grid transparent conductor by low-temperature selective laser sintering of nanoparticle ink. *ACS Nano*, **2013**, 7, 5024-31	16.7	327
223	A hyper-stretchable elastic-composite energy harvester. *Advanced Materials*, **2015**, 27, 2866-75	24	281
222	Direct nanoimprinting of metal nanoparticles for nanoscale electronics fabrication. *Nano Letters*, **2007**, 7, 1869-77	11.5	262
221	Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite. *Advanced Functional Materials*, **2014**, 24, 5671-5678	15.6	239
220	Conductor microstructures by laser curing of printed gold nanoparticle ink. *Applied Physics Letters*, **2004**, 84, 801-803	3.4	215
219	Highly Stretchable and Transparent Electromagnetic Interference Shielding Film Based on Silver Nanowire Percolation Network for Wearable Electronics Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 44609-44616	9.5	187
218	Highly Stretchable and Transparent Supercapacitor by Ag-Au Core-Shell Nanowire Network with High Electrochemical Stability. *ACS Applied Materials & Interfaces*, **2016**, 8, 15449-58	9.5	173
217	Patterning by controlled cracking. *Nature*, **2012**, 485, 221-4	50.4	173
216	Ag/Au/Polypyrrole Core-shell Nanowire Network for Transparent, Stretchable and Flexible Supercapacitor in Wearable Energy Devices. *Scientific Reports*, **2017**, 7, 41981	4.9	162

215	Large-Scale Synthesis and Characterization of Very Long Silver Nanowires via Successive Multistep Growth. *Crystal Growth and Design*, **2012**, 12, 5598-5605	3.5	162
214	Nanoscale Patterning and Electronics on Flexible Substrate by Direct Nanoimprinting of Metallic Nanoparticles. *Advanced Materials*, **2008**, 20, 489-496	24	156
213	Air stable high resolution organic transistors by selective laser sintering of ink-jet printed metal nanoparticles. *Applied Physics Letters*, **2007**, 90, 141103	3.4	153
212	Nanoscale electronics: digital fabrication by direct femtosecond laser processing of metal nanoparticles. *Advanced Materials*, **2011**, 23, 3176-81	24	147
211	Stretchable and Transparent Kirigami Conductor of Nanowire Percolation Network for Electronic Skin Applications. *Nano Letters*, **2019**, 19, 6087-6096	11.5	136
210	Fabrication of multilayer passive and active electric components on polymer using inkjet printing and low temperature laser processing. *Sensors and Actuators A: Physical*, **2007**, 134, 161-168	3.9	136
209	Biomimetic Color Changing Anisotropic Soft Actuators with Integrated Metal Nanowire Percolation Network Transparent Heaters for Soft Robotics. *Advanced Functional Materials*, **2018**, 28, 1801847	15.6	135
208	Solution-Processible Crystalline NiO Nanoparticles for High-Performance Planar Perovskite Photovoltaic Cells. *Scientific Reports*, **2016**, 6, 30759	4.9	129
207	Subwavelength light focusing using random nanoparticles. *Nature Photonics*, **2013**, 7, 454-458	33.9	125
206	Low-Temperature Oxidation-Free Selective Laser Sintering of Cu Nanoparticle Paste on a Polymer Substrate for the Flexible Touch Panel Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 11575-82	9.5	122
205	High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. *Nano Letters*, **2017**, 17, 4339-4346	11.5	121
204	Metal nanoparticle direct inkjet printing for low-temperature 3D micro metal structure fabrication. *Journal of Micromechanics and Microengineering*, **2010**, 20, 125010	2	119
203	One-Step Fabrication of Copper Electrode by Laser-Induced Direct Local Reduction and Agglomeration of Copper Oxide Nanoparticle. *Journal of Physical Chemistry C*, **2011**, 115, 23664-23670	3.8	119
202	Experimental study on spreading and evaporation of inkjet printed pico-liter droplet on a heated substrate. *International Journal of Heat and Mass Transfer*, **2009**, 52, 431-441	4.9	115
201	Flexible supercapacitor fabrication by room temperature rapid laser processing of roll-to-roll printed metal nanoparticle ink for wearable electronics application. *Journal of Power Sources*, **2014**, 246, 562-568	8.9	114
200	Low-cost facile fabrication of flexible transparent copper electrodes by nanosecond laser ablation. *Advanced Materials*, **2015**, 27, 2762-7	24	108
199	Simple hydrothermal synthesis of very-long and thin silver nanowires and their application in high quality transparent electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 11365-11371	13	105
198	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. *Advanced Materials*, **2020**, 32, e1905527	24	103

197	Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction. *Advanced Materials*, **2015**, 27, 6397-403	24	93
196	Next generation non-vacuum, maskless, low temperature nanoparticle ink laser digital direct metal patterning for a large area flexible electronics. *PLoS ONE*, **2012**, 7, e42315	3.7	92
195	Recent progress in silver nanowire based flexible/wearable optoelectronics. *Journal of Materials Chemistry C*, **2018**, 6, 7445-7461	7.1	88
194	ZnO nanowire network transistor fabrication on a polymer substrate by low-temperature, all-inorganic nanoparticle solution process. *Applied Physics Letters*, **2008**, 92, 154102	3.4	88
193	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. *Nanoscale*, **2017**, 9, 1978-1985	7.7	85
192	Highly conductive aluminum textile and paper for flexible and wearable electronics. *Angewandte Chemie - International Edition*, **2013**, 52, 7718-23	16.4	85
191	An evaluation of the exposure in nadir observation of the JEM-EUSO mission. *Astroparticle Physics*, **2013**, 44, 76-90	2.4	84
190	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. *Journal of Physical Chemistry C*, **2011**, 115, 11435-11441	3.8	84
189	Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. *Advanced Functional Materials*, **2013**, 23, 3316-3323	15.6	80
188	The Solid-State Neck Growth Mechanisms in Low Energy Laser Sintering of Gold Nanoparticles: A Molecular Dynamics Simulation Study. *Journal of Heat Transfer*, **2008**, 130,	1.8	77
187	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. *Advanced Functional Materials*, **2017**, 27, 1701138	15.6	76
186	Selective Laser Direct Patterning of Silver Nanowire Percolation Network Transparent Conductor for Capacitive Touch Panel. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 2317-23	1.3	74
185	Laser annealed composite titanium dioxide electrodes for dye-sensitized solar cells on glass and plastics. *Applied Physics Letters*, **2009**, 94, 071117	3.4	71
184	Nanosecond laser ablation of gold nanoparticle films. *Applied Physics Letters*, **2006**, 89, 141126	3.4	71
183	Synthesis of hierarchical TiO2 nanowires with densely-packed and omnidirectional branches. *Nanoscale*, **2013**, 5, 11147-52	7.7	69
182	Melt-mediated coalescence of solution-deposited ZnO nanoparticles by excimer laser annealing for thin-film transistor fabrication. *Applied Physics A: Materials Science and Processing*, **2009**, 94, 111-115	2.6	69
181	Lithography-free high-resolution organic transistor arrays on polymer substrate by low energy selective laser ablation of inkjet-printed nanoparticle film. *Applied Physics A: Materials Science and Processing*, **2008**, 92, 579-587	2.6	67
180	Low-haze, annealing-free, very long Ag nanowire synthesis and its application in a flexible transparent touch panel. *Nanotechnology*, **2016**, 27, 295201	3.4	65

179	In-tandem deposition and sintering of printed gold nanoparticle inks induced by continuous Gaussian laser irradiation. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 1259-1261	2.6	65
178	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. *ACS Nano*, **2015**, 9, 6059-68	16.7	64
177	Hierarchical weeping willow nano-tree growth and effect of branching on dye-sensitized solar cell efficiency. *Nanotechnology*, **2012**, 23, 194005	3.4	64
176	Digital selective laser methods for nanomaterials: From synthesis to processing. *Nano Today*, **2016**, 11, 547-564	17.9	64
175	A deep-learned skin sensor decoding the epicentral human motions. *Nature Communications*, **2020**, 11, 2149	17.4	60
174	Full-field subwavelength imaging using a scattering superlens. *Physical Review Letters*, **2014**, 113, 113901	7.4	58
173	Bendable polymer electrolyte fuel cell using highly flexible Ag nanowire percolation network current collectors. *Journal of Materials Chemistry A*, **2013**, 1, 8541	13	58
172	3D micro-structures by piezoelectric inkjet printing of gold nanofluids. *Journal of Micromechanics and Microengineering*, **2012**, 22, 055022	2	58
171	Microelectrode fabrication by laser direct curing of tiny nanoparticle self-generated from organometallic ink. *Optics Express*, **2011**, 19, 2573-9	3.3	58
170	All-solid-state flexible supercapacitors by fast laser annealing of printed metal nanoparticle layers. *Journal of Materials Chemistry A*, **2015**, 3, 8339-8345	13	57
169	Selective sintering of metal nanoparticle ink for maskless fabrication of an electrode micropattern using a spatially modulated laser beam by a digital micromirror device. *ACS Applied Materials & Interfaces*, **2014**, 6, 2786-90	9.5	56
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167	Damage-Free Low Temperature Pulsed Laser Printing of Gold Nanoinks On Polymers. *Journal of Heat Transfer*, **2005**, 127, 724-732	1.8	56
166	High-throughput near-field optical nanoprocessing of solution-deposited nanoparticles. *Small*, **2010**, 6, 1812-21	11	52
165	From design for manufacturing (DFM) to manufacturing for design (MFD) via hybrid manufacturing and smart factory: A review and perspective of paradigm shift. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2016**, 3, 209-222	3.8	51
164	Random nanocrack, assisted metal nanowire-bundled network fabrication for a highly flexible and transparent conductor. *RSC Advances*, **2016**, 6, 57434-57440	3.7	50
163	Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. *Advanced Functional Materials*, **2019**, 29, 1806895	15.6	48
162	Focused energy field method for the localized synthesis and direct integration of 1D nanomaterials on microelectronic devices. *Advanced Materials*, **2015**, 27, 1207-15	24	47

161	Digital selective growth of ZnO nanowire arrays from inkjet-printed nanoparticle seeds on a flexible substrate. *Langmuir*, **2012**, 28, 4787-92	4	47
160	Performance enhancement in bendable fuel cell using highly conductive Ag nanowires. *International Journal of Hydrogen Energy*, **2014**, 39, 7422-7427	6.7	46
159	Shape morphing smart 3D actuator materials for micro soft robot. *Materials Today*, **2020**, 41, 243-269	21.8	45
158	Nanowire reinforced nanoparticle nanocomposite for highly flexible transparent electrodes: borrowing ideas from macrocomposites in steel-wire reinforced concrete. *Journal of Materials Chemistry C*, **2017**, 5, 791-798	7.1	44
157	Application of the specific thermal properties of Ag nanoparticles to high-resolution metal patterning. *Thermochimica Acta*, **2012**, 542, 52-56	2.9	43
156	Highly Conductive Aluminum Textile and Paper for Flexible and Wearable Electronics. *Angewandte Chemie*, **2013**, 125, 7872-7877	3.6	43
155	Direct selective growth of ZnO nanowire arrays from inkjet-printed zinc acetate precursor on a heated substrate. *Nanoscale Research Letters*, **2013**, 8, 489	5	42
154	High resolution selective multilayer laser processing by nanosecond laser ablation of metal nanoparticle films. *Journal of Applied Physics*, **2007**, 102, 093102	2.5	41
153	Stretchable/flexible silver nanowire Electrodes for energy device applications. *Nanoscale*, **2019**, 11, 20356-20378	7.7	40
152	Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. *Nanoscale*, **2014**, 6, 2895-901	7.7	40
151	Flexible and Transparent Cu Electronics by Low-Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. *Advanced Materials Technologies*, **2017**, 2, 1600222	6.8	39
150	Maskless Fabrication of Highly Robust, Flexible Transparent Cu Conductor by Random Crack Network Assisted Cu Nanoparticle Patterning and Laser Sintering. *Advanced Electronic Materials*, **2016**, 2, 1600277	6.4	39
149	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. *Advanced Materials*, **2021**, 33, e2002397	24	39
148	Nanomaterial enabled laser transfer for organic light emitting material direct writing. *Applied Physics Letters*, **2008**, 93, 151110	3.4	38
147	The coalescence of supported gold nanoparticles induced by nanosecond laser irradiation. *Applied Physics A: Materials Science and Processing*, **2007**, 90, 247-253	2.6	38
146	Transparent wearable three-dimensional touch by self-generated multiscale structure. *Nature Communications*, **2019**, 10, 2582	17.4	36
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144	Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. *Nanoscale*, **2013**, 5, 3698-703	7.7	36

143	Graphene as a material for energy generation and control: Recent progress in the control of graphene thermal conductivity by graphene defect engineering. *Materials Today Energy*, **2019**, 12, 431-442	7	35
142	Flexible resistive pressure sensor with silver nanowire networks embedded in polymer using natural formation of air gap. *Composites Science and Technology*, **2019**, 174, 50-57	8.6	35
141	Thermal sintering of solution-deposited nanoparticle silver ink films characterized by spectroscopic ellipsometry. *Applied Physics Letters*, **2008**, 93, 234104	3.4	35
140	A three-dimensional metal grid mesh as a practical alternative to ITO. *Nanoscale*, **2016**, 8, 14257-63	7.7	34
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138	Explosive crystallization in the presence of melting. *Physical Review B*, **2006**, 73,	3.3	33
137	Flexible fuel cell using stiffness-controlled endplate. *International Journal of Hydrogen Energy*, **2016** , 41, 6013-6019	6.7	33
136	A Review on Hierarchical Origami and Kirigami Structure for Engineering Applications. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2019**, 6, 147-161	3.8	31
135	Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. *Advanced Functional Materials*, **2020**, 30, 1909171	15.6	31
134	Highly stretchable and oxidation-resistive Cu nanowire heater for replication of the feeling of heat in a virtual world. *Journal of Materials Chemistry A*, **2020**, 8, 8281-8291	13	30
133	Nanoscale Heaters: Single Nanowire Resistive Nano-heater for Highly Localized Thermo-Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). *Small*, **2014**, 10, 5014-5014	11	30
132	In situ monitoring of laser-assisted hydrothermal growth of ZnO nanowires: thermally deactivating growth kinetics. *Small*, **2014**, 10, 741-9	11	30
131	Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. *ACS Nano*, **2017**, 11, 12311-12317	16.7	29
130	A Transparent and Flexible Capacitive-Force Touch Pad from High-Aspect-Ratio Copper Nanowires with Enhanced Oxidation Resistance for Applications in Wearable Electronics. *Small Methods*, **2018**, 2, 1800077	12.8	29
129	Nanoparticle Selective Laser Processing for a Flexible Display Fabrication. *Japanese Journal of Applied Physics*, **2010**, 49, 05EC03	1.4	29
128	Mechanical and environmental durability of roll-to-roll printed silver nanoparticle film using a rapid laser annealing process for flexible electronics. *Microelectronics Reliability*, **2014**, 54, 2871-2880	1.2	28
127	Fiber laser annealing of indium-tin-oxide nanoparticles for large area transparent conductive layers and optical film characterization. *Applied Physics A: Materials Science and Processing*, **2011**, 104, 29-38	2.6	28
126	Monolithic digital patterning of polydimethylsiloxane with successive laser pyrolysis. *Nature Materials*, **2021**, 20, 100-107	27	28

125	A Liquid Metal Based Multimodal Sensor and Haptic Feedback Device for Thermal and Tactile Sensation Generation in Virtual Reality. *Advanced Functional Materials*, **2020**, 31, 2007772	15.6	23
124	Low temperature thermal engineering of nanoparticle ink for flexible electronics applications. *Semiconductor Science and Technology*, **2016**, 31, 073003	1.8	23
123	Silver nanoparticle piezoresistive sensors fabricated by roll-to-roll slot-die coating and laser direct writing. *Optics Express*, **2014**, 22, 8919-27	3.3	23
122	Two orders of magnitude suppression of graphene's thermal conductivity by heavy dopants (Si). *Carbon*, **2018**, 138, 98-107	10.4	22
121	Digital 3D Local Growth of Iron Oxide Micro- and Nanorods by Laser-Induced Photothermal Chemical Liquid Growth. *Journal of Physical Chemistry C*, **2014**, 118, 15448-15454	3.8	22
120	Metal Nanowire-Coated Metal Woven Mesh for High-Performance Stretchable Transparent Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 40905-40913	9.5	22
119	Thermally Controlled, Active Imperceptible Artificial Skin in Visible-to-Infrared Range. *Advanced Functional Materials*, **2020**, 30, 2003328	15.6	22
118	Study on the oxidation of copper nanowire network electrodes for skin mountable flexible, stretchable and wearable electronics applications. *Nanotechnology*, **2019**, 30, 074001	3.4	22
117	Highly Customizable Transparent Silver Nanowire Patterning via Inkjet-Printed Conductive Polymer Templates Formed on Various Surfaces. *Advanced Materials Technologies*, **2020**, 5, 2000042	6.8	21
116	Long-term sustainable aluminum precursor solution for highly conductive thin films on rigid and flexible substrates. *ACS Applied Materials & Interfaces*, **2014**, 6, 15480-7	9.5	21
115	Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. *Nature Communications*, **2021**, 12, 4658	17.4	21
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110	Directional Shape Morphing Transparent Walking Soft Robot. *Soft Robotics*, **2019**, 6, 760-767	9.2	19
109	Improvement of light-harvesting efficiency in dye-sensitized solar cells using silica beads embedded in a TiO2nanoporous structure. *Journal Physics D: Applied Physics*, **2013**, 46, 024006	3	19
108	Overcoming the □etention vs. voltage□trade-off in nonvolatile organic memory: Ag nanoparticles covered with dipolar self-assembled monolayers as robust charge storage nodes. *Organic Electronics*, **2013**, 14, 3260-3266	3.5	19

107	Direct Micro/Nano Patterning of Multiple Colored Quantum Dots by Large Area and Multilayer Imprinting. *Journal of Physical Chemistry C*, **2012**, 116, 11728-11733	3.8	19
106	Thermally stable Ag@ZrO 2 core-shell via atomic layer deposition. *Materials Letters*, **2017**, 188, 372-374	3.3	18
105	Review of the Multi-scale Nano-structure Approach to the Development of High Efficiency Solar Cells. *Smart Science*, **2014**, 2, 54-62	1.5	18
104	Laser induced short plane acoustic wave focusing in water. *Applied Physics Letters*, **2007**, 91, 051128	3.4	18
103	Effect of assembly pressure on the performance of a bendable polymer electrolyte fuel cell based on a silver nanowire current collector. *Energy*, **2017**, 134, 412-419	7.9	17
102	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. *Advanced Materials Technologies*, **2019**, 4, 1800422	6.8	17
101	Ultrasonication assisted production of silver nanowires with low aspect ratio and their optical properties. *Ultrasonics Sonochemistry*, **2015**, 22, 35-40	8.9	17
100	Recent advances in liquid-metal-based wearable electronics and materials. *IScience*, **2021**, 24, 102698	6.1	17
99	Nanosecond laser ablation of silver nanoparticle film. *Optical Engineering*, **2013**, 52, 024302	1.1	16
98	Optimum design of ordered bulk heterojunction organic photovoltaics. *Solar Energy Materials and Solar Cells*, **2011**, 95, 3021-3024	6.4	16
97	Enhanced Thermoelectric Conversion Efficiency of CVD Graphene with Reduced Grain Sizes. *Nanomaterials*, **2018**, 8,	5.4	16
96	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. *Science Advances*, **2019**, 5, eaav4916	14.3	15
95	Vacuum-assisted microcontact printing (CP) for aligned patterning of nano and biochemical materials. *Journal of Materials Chemistry C*, **2013**, 1, 268-274	7.1	15
94	Digitally patterned resistive micro heater as a platform for zinc oxide nanowire based micro sensor. *Applied Surface Science*, **2018**, 447, 1-7	6.7	14
93	Effect of graphene-substrate conformity on the in-plane thermal conductivity of supported graphene. *Carbon*, **2017**, 125, 39-48	10.4	14
92	Performance variation of bendable polymer electrolyte fuel cell based on Ag nanowire current collector under mixed bending and twisting load. *International Journal of Hydrogen Energy*, **2017**, 42, 1884-1890	6.7	14
91	Direct Micro Metal Patterning on Plastic Substrates by Electrohydrodynamic Jet Printing for Flexible Electronic Applications. *ECS Journal of Solid State Science and Technology*, **2015**, 4, P3052-P3056	2	13
90	Large-area nanoimprinting on various substrates by reconfigurable maskless laser direct writing. *Nanotechnology*, **2012**, 23, 344012	3.4	13

89	Low-Temperature Rapid Fabrication of ZnO Nanowire UV Sensor Array by Laser-Induced Local Hydrothermal Growth. *Journal of Nanomaterials*, **2013**, 2013, 1-7	3.2	13
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87	Flexible Superhydrophobic Polymeric Surfaces with Micro-/Nanohybrid Structures Using Black Silicon. *Macromolecular Materials and Engineering*, **2013**, 298, 311-317	3.9	12
86	Selective Thermochemical Growth of Hierarchical ZnO Nanowire Branches on Silver Nanowire Backbone Percolation Network Heaters. *Journal of Physical Chemistry C*, **2017**, 121, 22542-22549	3.8	12
85	Laser based hybrid inkjet printing of nanoink for flexible electronics **2005**, 5713, 97		12
84	Metal-Oxide Nanomaterials Synthesis and Applications in Flexible and Wearable Sensors. *ACS Nanoscience Au*,		12
83	Smart Stretchable Electronics for Advanced Human Machine Interface. *Advanced Intelligent Systems*, **2021**, 3, 2000157	6	12
82	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. *Nanomaterials*, **2018**, 8,	5.4	12
81	Selective electro thermal growth of zinc oxide nanowire on photolithographically patterned electrode for microsensor applications. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2016**, 3, 173-177	3.8	11
80	ZnO nano-tree growth study for high efficiency solar cell. *Energy Procedia*, **2012**, 14, 1093-1098	2.3	11
79	Zinc Oxide Nanowire Forest for Pool Boiling Heat Transfer. *Japanese Journal of Applied Physics*, **2012**, 51, 11PE11	1.4	11
78	Thermo-Haptic Materials and Devices for Wearable Virtual and Augmented Reality. *Advanced Functional Materials*, **2020**, 31, 2007376	15.6	11
77	Advances in protective layer-coating on metal nanowires with enhanced stability and their applications. *Applied Materials Today*, **2021**, 22, 100909	6.6	11
76	Facile Photoreduction Process for ZnO/Ag Hierarchical Nanostructured Photoelectrochemical Cell Integrated with Supercapacitor. *ECS Journal of Solid State Science and Technology*, **2015**, 4, P424-P428	2	10
75	Control and Manipulation of Nano Cracks Mimicking Optical Wave. *Scientific Reports*, **2015**, 5, 17292	4.9	10
74	Recent progress in controlled nano/micro cracking as an alternative nano-patterning method for functional applications. *Nanoscale Horizons*, **2020**, 5, 1036-1049	10.8	9
73	ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. *Nanomaterials*, **2018**, 8,	5.4	9
72	Flexible Electronics: Highly Stretchable and Highly Conductive Metal Electrode by Very Long Metal Nanowire Percolation Network (Adv. Mater. 25/2012). *Advanced Materials*, **2012**, 24, 3325-3325	24	9

71	Biohybrid Actuators for Soft Robotics: Challenges in Scaling Up. *Actuators*, **2020**, 9, 96	2.4	9
70	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu□Au Core□Shell Nanowire. *Advanced Materials Technologies*, **2020**, 5, 2000661	6.8	9
69	Metallic Nanowire Coupled CsPbBr3 Quantum Dots Plasmonic Nanolaser. *Advanced Functional Materials*, **2021**, 31, 2102375	15.6	9
68	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. *Energy Technology*, **2016**, 4, 271-277	3.5	9
67	Bending-durable membrane-electrode assembly using metal nanowires for bendable polymer electrolyte membrane fuel cell. *Energy*, **2019**, 172, 874-880	7.9	8
66	Single nanowire resistive nano-heater for highly localized thermo-chemical reactions: localized hierarchical heterojunction nanowire growth. *Small*, **2014**, 10, 5015-22	11	8
65	Challenges and Strategies in Developing an Enzymatic Wearable Sweat Glucose Biosensor as a Practical Point-Of-Care Monitoring Tool for Type II Diabetes.. *Nanomaterials*, **2022**, 12,	5.4	8
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63	Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. *ACS Nano*, **2021**, 15, 15730-15740	16.7	8
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60	Interfacial Thermal Contact Conductance inside the Graphene□Bi2Te3 Heterostructure. *Advanced Materials Interfaces*, **2019**, 6, 1900275	4.6	7
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