

# Habeom Lee

## List of Publications by Year in Descending Order

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

49  
papers

2,795  
citations

24  
h-index

52  
g-index

54  
ext. papers

3,404  
ext. citations

10.1  
avg, IF

5  
L-index

#	Paper	IF	Citations
49	Fabrication of Perforated PDMS Microchannel by Successive Laser Pyrolysis. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
48	From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008434	24	4
47	Imperceptible Soft Robotics: Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics (Adv. Mater. 19/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170147	24	0
46	Crack Programming: From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates (Adv. Mater. 22/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170175	24	
45	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006854	15.6	4
44	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2002397	24	39
43	Digital Laser Micropainting: Digital Laser Micropainting for Reprogrammable Optoelectronic Applications (Adv. Funct. Mater. 1/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170002	15.6	
42	Wearable Electronics: Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu/Au Core/Shell Nanowire (Adv. Mater. Technol. 12/2020). <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2070073	6.8	2
41	Wearable Temperature Sensors: Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration (Adv. Mater. 2/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070014	24	4
40	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905527	24	103
39	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu/Au Core/Shell Nanowire. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000661	6.8	9
38	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , <b>2019</b> , 5, eaav4916	14.3	15
37	Stretchable/flexible silver nanowire Electrodes for energy device applications. <i>Nanoscale</i> , <b>2019</b> , 11, 20356720378	7.7	18
36	Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , <b>2019</b> , 6, 760-767	9.2	19
35	Forced Circulation of Nitrogen Gas for Accelerated and Eco-Friendly Cooling of Metallic Parts. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3679	2.6	3
34	Digitally patterned resistive micro heater as a platform for zinc oxide nanowire based micro sensor. <i>Applied Surface Science</i> , <b>2018</b> , 447, 1-7	6.7	14
33	Perspective Brief Perspective on the Fabrication of Hierarchical Nanostructure for Solar Water Splitting Photoelectrochemical Cells. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q131-Q135		1

32	ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	9
31	A Transparent and Flexible Capacitive-Force Touch Pad from High-Aspect-Ratio Copper Nanowires with Enhanced Oxidation Resistance for Applications in Wearable Electronics. <i>Small Methods</i> , <b>2018</b> , 2, 1800077	12.8	29
30	Biomimetic Color Changing Anisotropic Soft Actuators with Integrated Metal Nanowire Percolation Network Transparent Heaters for Soft Robotics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801847	15.6	135
29	Recent progress in silver nanowire based flexible/wearable optoelectronics. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7445-7461	7.1	88
28	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
27	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	12
26	Ag/Au/Polypyrrole Core-shell Nanowire Network for Transparent, Stretchable and Flexible Supercapacitor in Wearable Energy Devices. <i>Scientific Reports</i> , <b>2017</b> , 7, 41981	4.9	162
25	Highly Controlled Nanoporous Ag Electrode by Vaporization Control of 2-Ethoxyethanol for a Flexible Supercapacitor Application. <i>Langmuir</i> , <b>2017</b> , 33, 1854-1860	4	6
24	Flexible and Transparent Cu Electronics by Low-Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600222	6.8	39
23	High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. <i>Nano Letters</i> , <b>2017</b> , 17, 4339-4346	11.5	121
22	Nanowire reinforced nanoparticle nanocomposite for highly flexible transparent electrodes: borrowing ideas from macrocomposites in steel-wire reinforced concrete. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 791-798	7.1	44
21	Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. <i>ACS Nano</i> , <b>2017</b> , 11, 12311-12317	16.7	29
20	Selective Thermochemical Growth of Hierarchical ZnO Nanowire Branches on Silver Nanowire Backbone Percolation Network Heaters. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22542-22549	3.8	12
19	Highly Stretchable and Transparent Electromagnetic Interference Shielding Film Based on Silver Nanowire Percolation Network for Wearable Electronics Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44609-44616	9.5	187
18	Large-Area Compatible Laser Sintering Schemes with a Spatially Extended Focused Beam. <i>Micromachines</i> , <b>2017</b> , 8, 153	3.3	8
17	Rapid and Effective Electrical Conductivity Improvement of the Ag NW-Based Conductor by Using the Laser-Induced Nano-Welding Process. <i>Micromachines</i> , <b>2017</b> , 8, 164	3.3	13
16	Maskless Fabrication of Highly Robust, Flexible Transparent Cu Conductor by Random Crack Network Assisted Cu Nanoparticle Patterning and Laser Sintering. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600277	6.4	39
15	Random nanocrack, assisted metal nanowire-bundled network fabrication for a highly flexible and transparent conductor. <i>RSC Advances</i> , <b>2016</b> , 6, 57434-57440	3.7	50

14	Highly Stretchable and Transparent Supercapacitor by Ag-Au Core-Shell Nanowire Network with High Electrochemical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15449-58	9.5	173
13	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , <b>2016</b> , 4, 271-277	3.5	9
12	Low-Temperature Oxidation-Free Selective Laser Sintering of Cu Nanoparticle Paste on a Polymer Substrate for the Flexible Touch Panel Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11575-82	9.5	122
11	Digital selective laser methods for nanomaterials: From synthesis to processing. <i>Nano Today</i> , <b>2016</b> , 11, 547-564	17.9	64
10	Facile Photoreduction Process for ZnO/Ag Hierarchical Nanostructured Photoelectrochemical Cell Integrated with Supercapacitor. <i>ECS Journal of Solid State Science and Technology</i> , <b>2015</b> , 4, P424-P428	2	10
9	Selective Laser Direct Patterning of Silver Nanowire Percolation Network Transparent Conductor for Capacitive Touch Panel. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 2317-23	1.3	74
8	Control and Manipulation of Nano Cracks Mimicking Optical Wave. <i>Scientific Reports</i> , <b>2015</b> , 5, 17292	4.9	10
7	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. <i>Advanced Materials</i> , <b>2015</b> , 27, 4744-51	24	541
6	All-solid-state flexible supercapacitors by fast laser annealing of printed metal nanoparticle layers. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8339-8345	13	57
5	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. <i>ACS Nano</i> , <b>2015</b> , 9, 6059-68	16.7	64
4	Single nanowire resistive nano-heater for highly localized thermo-chemical reactions: localized hierarchical heterojunction nanowire growth. <i>Small</i> , <b>2014</b> , 10, 5015-22	11	8
3	Nanoscale Heaters: Single Nanowire Resistive Nano-heater for Highly Localized Thermo-Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). <i>Small</i> , <b>2014</b> , 10, 5014 <sup>11</sup> -5014 <sup>30</sup>		
2	Direct selective growth of ZnO nanowire arrays from inkjet-printed zinc acetate precursor on a heated substrate. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 489	5	42
1	Nonvacuum, maskless fabrication of a flexible metal grid transparent conductor by low-temperature selective laser sintering of nanoparticle ink. <i>ACS Nano</i> , <b>2013</b> , 7, 5024-31	16.7	327