

# Habeom Lee

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/10574143/habeom-lee-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. <i>Advanced Materials</i> , <b>2015</b> , 27, 4744-51	24	541
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905527	24	103
40	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
39	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
38	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
37	Digital selective laser methods for nanomaterials: From synthesis to processing. <i>Nano Today</i> , <b>2016</b> , 11, 547-564	17.9	64
36	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
35	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
34	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
33	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

32	Stretchable/flexible silver nanowire Electrodes for energy device applications. <i>Nanoscale</i> , <b>2019</b> , 11, 20356-20378	5.7	38
31	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
30	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
29	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2002397	24	39
28	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, 5014-5014 <sup>30</sup>	11	30
27	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
26	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
25	Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , <b>2019</b> , 6, 760-767	9.2	19
24	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , <b>2019</b> , 5, eaav4916	14.3	15
23	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
22	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
21	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
20	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	12
19	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
18	Control and Manipulation of Nano Cracks Mimicking Optical Wave. <i>Scientific Reports</i> , <b>2015</b> , 5, 17292	4.9	10
17	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
16	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu <sub>2</sub> S/Au Core-Shell Nanowire. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000661	6.8	9
15	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , <b>2016</b> , 4, 271-277	3.5	9

14	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
13	Large-Area Compatible Laser Sintering Schemes with a Spatially Extended Focused Beam. <i>Micromachines</i> , <b>2017</b> , 8, 153	3.3	8
12	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
11	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
10	From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008434	24	4
9	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006854	15.6	4
8	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
7	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
6	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
5	Fabrication of Perforated PDMS Microchannel by Successive Laser Pyrolysis. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
4	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	1
3	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
2	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	
1	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	