

# Sukjoon Hong

## List of Publications by Citations

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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.

92 papers	6,404 citations	39 h-index	79 g-index
100 ext. papers	7,554 ext. citations	11.1 avg, IF	5.69 L-index

#	Paper	IF	Citations
92	Highly stretchable and highly conductive metal electrode by very long metal nanowire percolation network. <i>Advanced Materials</i> , <b>2012</b> , 24, 3326-32	24	778
91	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. <i>Advanced Materials</i> , <b>2015</b> , 27, 4744-51	24	541
90	Highly Sensitive and Stretchable Multidimensional Strain Sensor with Prestrained Anisotropic Metal Nanowire Percolation Networks. <i>Nano Letters</i> , <b>2015</b> , 15, 5240-7	11.5	417
89	Room-Temperature Nanosoldering of a Very Long Metal Nanowire Network by Conducting-Polymer-Assisted Joining for a Flexible Touch-Panel Application. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4171-4176	15.6	394
88	Fast plasmonic laser nanowelding for a Cu-nanowire percolation network for flexible transparent conductors and stretchable electronics. <i>Advanced Materials</i> , <b>2014</b> , 26, 5808-14	24	345
87	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
86	Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5671-5678	15.6	239
85	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
84	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
83	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
82	Nanoscale electronics: digital fabrication by direct femtosecond laser processing of metal nanoparticles. <i>Advanced Materials</i> , <b>2011</b> , 23, 3176-81	24	147
81	Stretchable and Transparent Kirigami Conductor of Nanowire Percolation Network for Electronic Skin Applications. <i>Nano Letters</i> , <b>2019</b> , 19, 6087-6096	11.5	136
80	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
79	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
78	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
77	Flexible supercapacitor fabrication by room temperature rapid laser processing of roll-to-roll printed metal nanoparticle ink for wearable electronics application. <i>Journal of Power Sources</i> , <b>2014</b> , 246, 562-568	8.9	114
76	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905527	24	103

75	Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction. <i>Advanced Materials</i> , <b>2015</b> , 27, 6397-403	24	93
74	Next generation non-vacuum, maskless, low temperature nanoparticle ink laser digital direct metal patterning for a large area flexible electronics. <i>PLoS ONE</i> , <b>2012</b> , 7, e42315	3.7	92
73	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
72	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. <i>Nanoscale</i> , <b>2017</b> , 9, 1978-1985	7.7	85
71	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11435-11441	3.8	84
70	Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3316-3323	15.6	80
69	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701138	15.6	76
68	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
67	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
66	Hierarchical weeping willow nano-tree growth and effect of branching on dye-sensitized solar cell efficiency. <i>Nanotechnology</i> , <b>2012</b> , 23, 194005	3.4	64
65	Digital selective laser methods for nanomaterials: From synthesis to processing. <i>Nano Today</i> , <b>2016</b> , 11, 547-564	17.9	64
64	A Lithography-Free and Field-Programmable Photonic Metacanvas. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703878	18.4	60
63	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
62	Selective sintering of metal nanoparticle ink for maskless fabrication of an electrode micropattern using a spatially modulated laser beam by a digital micromirror device. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2786-90	9.5	56
61	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
60	Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806895	15.6	48
59	Digital selective growth of ZnO nanowire arrays from inkjet-printed nanoparticle seeds on a flexible substrate. <i>Langmuir</i> , <b>2012</b> , 28, 4787-92	4	47
58	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

57	Reversible disorder-order transitions in atomic crystal nucleation. <i>Science</i> , <b>2021</b> , 371, 498-503	33.3	44
56	Application of the specific thermal properties of Ag nanoparticles to high-resolution metal patterning. <i>Thermochimica Acta</i> , <b>2012</b> , 542, 52-56	2.9	43
55	Stretchable/flexible silver nanowire Electrodes for energy device applications. <i>Nanoscale</i> , <b>2019</b> , 11, 20356-20378	56.7	48
54	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
53	Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. <i>Nanoscale</i> , <b>2013</b> , 5, 3698-703	7.7	36
52	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>	11.1	30
51	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
50	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
49	Monolithic digital patterning of polydimethylsiloxane with successive laser pyrolysis. <i>Nature Materials</i> , <b>2021</b> , 20, 100-107	27	28
48	Programming Nanoparticles in Multiscale: Optically Modulated Assembly and Phase Switching of Silicon Nanoparticle Array. <i>ACS Nano</i> , <b>2018</b> , 12, 2231-2241	16.7	25
47	Digital 3D Local Growth of Iron Oxide Micro- and Nanorods by Laser-Induced Photothermal Chemical Liquid Growth. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15448-15454	3.8	22
46	Thermally Controlled, Active Imperceptible Artificial Skin in Visible-to-Infrared Range. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003328	15.6	22
45	Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. <i>Nature Communications</i> , <b>2021</b> , 12, 4658	17.4	21
44	Moiré-Free Imperceptible and Flexible Random Metal Grid Electrodes with Large Figure-of-Merit by Photonic Sintering Control of Copper Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15773-15780	9.5	20
43	Self-assembled stretchable photonic crystal for a tunable color filter. <i>Optics Letters</i> , <b>2018</b> , 43, 3501-3504 <sup>3</sup>	3	20
42	Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , <b>2019</b> , 6, 760-767	9.2	19
41	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800422	6.8	17
40	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , <b>2019</b> , 5, eaav4916	14.3	15

39	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
38	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
37	Direct Micro Metal Patterning on Plastic Substrates by Electrohydrodynamic Jet Printing for Flexible Electronic Applications. <i>ECS Journal of Solid State Science and Technology</i> , <b>2015</b> , 4, P3052-P3056 <sup>2</sup>		13
36	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
35	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	12
34	Selective electro thermal growth of zinc oxide nanowire on photolithographically patterned electrode for microsensor applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , <b>2016</b> , 3, 173-177	3.8	11
33	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
32	Control and Manipulation of Nano Cracks Mimicking Optical Wave. <i>Scientific Reports</i> , <b>2015</b> , 5, 17292	4.9	10
31	Recent progress in controlled nano/micro cracking as an alternative nano-patterning method for functional applications. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 1036-1049	10.8	9
30	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
29	Flexible Electronics: Highly Stretchable and Highly Conductive Metal Electrode by Very Long Metal Nanowire Percolation Network (Adv. Mater. 25/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 3325-3325	24	9
28	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
27	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , <b>2016</b> , 4, 271-277	3.5	9
26	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
25	Large-Area Compatible Laser Sintering Schemes with a Spatially Extended Focused Beam. <i>Micromachines</i> , <b>2017</b> , 8, 153	3.3	8
24	Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. <i>ACS Nano</i> , <b>2021</b> , 15, 15730-15740	16.7	8
23	Fabrication of submicron-sized metal patterns on a flexible polymer substrate by femtosecond laser sintering of metal nanoparticles. <i>International Journal of Nanomanufacturing</i> , <b>2013</b> , 9, 468	0.7	7
22	Continuous-Wave Laser-Induced Transfer of Metal Nanoparticles to Arbitrary Polymer Substrates. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	5

21	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
20	Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 48917-48927	9.5	4
19	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006854	15.6	4
18	Reconfigurable Photonic Platforms: A Lithography-Free and Field-Programmable Photonic Metacanvas (Adv. Mater. 5/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870034	24	3
17	Flexible Electronics: Fast Plasmonic Laser Nanowelding for a Cu-Nanowire Percolation Network for Flexible Transparent Conductors and Stretchable Electronics (Adv. Mater. 33/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 5888-5888	24	3
16	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
15	Monolithic digital patterning of polyimide by laser-induced pyrolytic jetting. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131050	14.7	3
14	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
13	Hybrid subtractive micro-patterning of a self-assembled SiO <sub>2</sub> nano/microsphere monolayer. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 105006	2	2
12	Nanowires: Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction (Adv. Mater. 41/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 6396-6396	24	2
11	Fabrication of Perforated PDMS Microchannel by Successive Laser Pyrolysis. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
10	A Transformative Gold Patterning through Selective Laser Refining of Cyanide. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
9	Perspective A 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	13.5	1
8	Nanocomposites: Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite (Adv. Funct. Mater. 36/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5618-5618	15.6	1
7	Selective Laser Pyrolytic Micropatterning of Stretched Elastomeric Polymer Surfaces. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , <b>2021</b> , 8, 795-804	3.8	1
6	Reversible, Selective, Ultrawide-Range Variable Stiffness Control by Spatial Micro-Water Molecule Manipulation. <i>Advanced Science</i> , <b>2021</b> , 8, e2102536	13.6	1
5	Adhesive-free bonding of PI/PDMS interface by site-selective photothermal reactions. <i>Applied Surface Science</i> , <b>2022</b> , 571, 151123	6.7	1
4	Ag Electrode Strain Sensor Fabrication Using Laser Direct Writing Process. <i>Journal of Sensor Science and Technology</i> , <b>2015</b> , 24, 215-218	0.3	0

3	Nanowires: Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth (Adv. Funct. Mater. 26/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3315-3315	15.6
2	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
1	Response to Comment on "Reversible disorder-order transitions in atomic crystal nucleation".. <i>Science</i> , <b>2022</b> , 375, eabj3683	33.3