

Sukjoon Hong

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5261931/sukjoon-hong-publications-by-year.pdf>

Version: 2024-04-10

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.

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	Adhesive-free bonding of PI/PDMS interface by site-selective photothermal reactions. <i>Applied Surface Science</i> , 2022 , 571, 151123	6.7	1
91	Monolithic digital patterning of polyimide by laser-induced pyrolytic jetting. <i>Chemical Engineering Journal</i> , 2022 , 428, 131050	14.7	3
90	Response to Comment on "Reversible disorder-order transitions in atomic crystal nucleation".. <i>Science</i> , 2022 , 375, eabj3683	33.3	
89	Fabrication of Perforated PDMS Microchannel by Successive Laser Pyrolysis. <i>Materials</i> , 2021 , 14,	3.5	2
88	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2006854	15.6	4
87	Monolithic digital patterning of polydimethylsiloxane with successive laser pyrolysis. <i>Nature Materials</i> , 2021 , 20, 100-107	27	28
86	Digital Laser Micropainting: Digital Laser Micropainting for Reprogrammable Optoelectronic Applications (Adv. Funct. Mater. 1/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170002	15.6	
85	Reversible disorder-order transitions in atomic crystal nucleation. <i>Science</i> , 2021 , 371, 498-503	33.3	44
84	Selective Laser Pyrolytic Micropatterning of Stretched Elastomeric Polymer Surfaces. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021 , 8, 795-804	3.8	1
83	A Transformative Gold Patterning through Selective Laser Refining of Cyanide. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
82	Reversible, Selective, Ultrawide-Range Variable Stiffness Control by Spatial Micro-Water Molecule Manipulation. <i>Advanced Science</i> , 2021 , 8, e2102536	13.6	1
81	Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. <i>Nature Communications</i> , 2021 , 12, 4658	17.4	21
80	Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. <i>ACS Nano</i> , 2021 , 15, 15730-15740	16.7	8
79	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> , 2020 , 5, 2070073	6.8	2
78	Recent progress in controlled nano/micro cracking as an alternative nano-patterning method for functional applications. <i>Nanoscale Horizons</i> , 2020 , 5, 1036-1049	10.8	9
77	Wearable Temperature Sensors: Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration (Adv. Mater. 2/2020). <i>Advanced Materials</i> , 2020 , 32, 2070014	24	4
76	Continuous-Wave Laser-Induced Transfer of Metal Nanoparticles to Arbitrary Polymer Substrates. <i>Nanomaterials</i> , 2020 , 10,	5.4	5

75	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. <i>Advanced Materials</i> , 2020 , 32, e1905527	24	103
74	Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48917-48927	9.5	4
73	Thermally Controlled, Active Imperceptible Artificial Skin in Visible-to-Infrared Range. <i>Advanced Functional Materials</i> , 2020 , 30, 2003328	15.6	22
72	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu@Au Core/Shell Nanowire. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000661	6.8	9
71	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , 2019 , 5, eaav4916	14.3	15
70	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800422	6.8	17
69	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 & Interfaces</i> , 2019 , 11, 15773-15780	9.5	20
68	Stretchable/flexible silver nanowire Electrodes for energy device applications. <i>Nanoscale</i> , 2019 , 11, 20356-20378	11.5	136
67	Stretchable and Transparent Kirigami Conductor of Nanowire Percolation Network for Electronic Skin Applications. <i>Nano Letters</i> , 2019 , 19, 6087-6096	9.2	19
66	Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , 2019 , 6, 760-767	15.6	48
65	Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. <i>Advanced Functional Materials</i> , 2019 , 29, 1806895	16.7	25
64	Programming Nanoparticles in Multiscale: Optically Modulated Assembly and Phase Switching of Silicon Nanoparticle Array. <i>ACS Nano</i> , 2018 , 12, 2231-2241	24	3
63	Reconfigurable Photonic Platforms: A Lithography-Free and Field-Programmable Photonic Metacanvas (Adv. Mater. 5/2018). <i>Advanced Materials</i> , 2018 , 30, 1870034	6.7	14
62	Digitally patterned resistive micro heater as a platform for zinc oxide nanowire based micro sensor. <i>Applied Surface Science</i> , 2018 , 447, 1-7	3	20
61	Self-assembled stretchable photonic crystal for a tunable color filter. <i>Optics Letters</i> , 2018 , 43, 3501-3504	1	1
60	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> , 2018 , 7, Q131-Q135	5.4	9
59	ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. <i>Nanomaterials</i> , 2018 , 8,	12.8	29
58	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> , 2018 , 2, 1800077		

57	Biomimetic Color Changing Anisotropic Soft Actuators with Integrated Metal Nanowire Percolation Network Transparent Heaters for Soft Robotics. <i>Advanced Functional Materials</i> , 2018 , 28, 1801847	15.6	135
56	Recent progress in silver nanowire based flexible/wearable optoelectronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7445-7461	7.1	88
55	A Lithography-Free and Field-Programmable Photonic Metacanvas. <i>Advanced Materials</i> , 2018 , 30, 1703878	7.4	60
54	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , 2018 , 11,	3.5	3
53	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , 2018 , 8,	5.4	12
52	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. <i>Nanoscale</i> , 2017 , 9, 1978-1985	7.7	85
51	Ag/Au/Polypyrrole Core-shell Nanowire Network for Transparent, Stretchable and Flexible Supercapacitor in Wearable Energy Devices. <i>Scientific Reports</i> , 2017 , 7, 41981	4.9	162
50	Flexible and Transparent Cu Electronics by Low-Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600222	6.8	39
49	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. <i>Advanced Functional Materials</i> , 2017 , 27, 1701138	15.6	76
48	High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. <i>Nano Letters</i> , 2017 , 17, 4339-4346	11.5	121
47	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> , 2017 , 5, 791-798	7.1	44
46	Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. <i>ACS Nano</i> , 2017 , 11, 12311-12317	16.7	29
45	Selective Thermochemical Growth of Hierarchical ZnO Nanowire Branches on Silver Nanowire Backbone Percolation Network Heaters. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22542-22549	3.8	12
44	Highly Stretchable and Transparent Electromagnetic Interference Shielding Film Based on Silver Nanowire Percolation Network for Wearable Electronics Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44609-44616	9.5	187
43	Large-Area Compatible Laser Sintering Schemes with a Spatially Extended Focused Beam. <i>Micromachines</i> , 2017 , 8, 153	3.3	8
42	Rapid and Effective Electrical Conductivity Improvement of the Ag NW-Based Conductor by Using the Laser-Induced Nano-Welding Process. <i>Micromachines</i> , 2017 , 8, 164	3.3	13
41	Random nanocrack, assisted metal nanowire-bundled network fabrication for a highly flexible and transparent conductor. <i>RSC Advances</i> , 2016 , 6, 57434-57440	3.7	50
40	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> , 2016 , 3, 173-177	3.8	11

39	Highly Stretchable and Transparent Supercapacitor by Ag-Au Core-Shell Nanowire Network with High Electrochemical Stability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15449-58	9.5	173
38	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , 2016 , 4, 271-277	3.5	9
37	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 & Interfaces</i> , 2016 , 8, 11575-82	9.5	122
36	Digital selective laser methods for nanomaterials: From synthesis to processing. <i>Nano Today</i> , 2016 , 11, 547-564	17.9	64
35	Highly Sensitive and Stretchable Multidimensional Strain Sensor with Prestrained Anisotropic Metal Nanowire Percolation Networks. <i>Nano Letters</i> , 2015 , 15, 5240-7	11.5	417
34	Facile Photoreduction Process for ZnO/Ag Hierarchical Nanostructured Photoelectrochemical Cell Integrated with Supercapacitor. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, P424-P428	2	10
33	Selective Laser Direct Patterning of Silver Nanowire Percolation Network Transparent Conductor for Capacitive Touch Panel. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2317-23	1.3	74
32	Hybrid subtractive micro-patterning of a self-assembled SiO ₂ nano/microsphere monolayer. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 105006	2	2
31	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> , 2015 , 27, 6396-6396	24	2
30	Control and Manipulation of Nano Cracks Mimicking Optical Wave. <i>Scientific Reports</i> , 2015 , 5, 17292	4.9	10
29	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. <i>Advanced Materials</i> , 2015 , 27, 4744-51	24	541
28	Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction. <i>Advanced Materials</i> , 2015 , 27, 6397-403	24	93
27	All-solid-state flexible supercapacitors by fast laser annealing of printed metal nanoparticle layers. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8339-8345	13	57
26	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. <i>ACS Nano</i> , 2015 , 9, 6059-68	16.7	64
25	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> , 2015 , 4, P3052-P3056 ²		13
24	Ag Electrode Strain Sensor Fabrication Using Laser Direct Writing Process. <i>Journal of Sensor Science and Technology</i> , 2015 , 24, 215-218	0.3	0
23	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> , 2014 , 26, 5888-5888	24	3
22	Digital 3D Local Growth of Iron Oxide Micro- and Nanorods by Laser-Induced Photothermal Chemical Liquid Growth. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15448-15454	3.8	22

21	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 & Interfaces</i> , 2014 , 6, 2786-90	9.5	56
20	Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite. <i>Advanced Functional Materials</i> , 2014 , 24, 5671-5678	15.6	239
19	Single nanowire resistive nano-heater for highly localized thermo-chemical reactions: localized hierarchical heterojunction nanowire growth. <i>Small</i> , 2014 , 10, 5015-22	11	8
18	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> , 2014 , 246, 562-568	8.9	114
17	Fast plasmonic laser nanowelding for a Cu-nanowire percolation network for flexible transparent conductors and stretchable electronics. <i>Advanced Materials</i> , 2014 , 26, 5808-14	24	345
16	Nanoscale Heaters: Single Nanowire Resistive Nano-heater for Highly Localized Thermo-Chemical Reactions: Localized Hierarchical Heterojunction Nanowire Growth (Small 24/2014). <i>Small</i> , 2014 , 10, 5014-5014 ³⁰	11	30
15	Nanocomposites: Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite (Adv. Funct. Mater. 36/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 5618-5618	15.6	1
14	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> , 2013 , 23, 3315-3315	15.6	
13	Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. <i>Advanced Functional Materials</i> , 2013 , 23, 3316-3323	15.6	80
12	Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. <i>Nanoscale</i> , 2013 , 5, 3698-703	7.7	36
11	Nonvacuum, maskless fabrication of a flexible metal grid transparent conductor by low-temperature selective laser sintering of nanoparticle ink. <i>ACS Nano</i> , 2013 , 7, 5024-31	16.7	327
10	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> , 2013 , 23, 4171-4176	15.6	394
9	Fabrication of submicron-sized metal patterns on a flexible polymer substrate by femtosecond laser sintering of metal nanoparticles. <i>International Journal of Nanomanufacturing</i> , 2013 , 9, 468	0.7	7
8	Application of the specific thermal properties of Ag nanoparticles to high-resolution metal patterning. <i>Thermochimica Acta</i> , 2012 , 542, 52-56	2.9	43
7	Digital selective growth of ZnO nanowire arrays from inkjet-printed nanoparticle seeds on a flexible substrate. <i>Langmuir</i> , 2012 , 28, 4787-92	4	47
6	Hierarchical weeping willow nano-tree growth and effect of branching on dye-sensitized solar cell efficiency. <i>Nanotechnology</i> , 2012 , 23, 194005	3.4	64
5	Highly stretchable and highly conductive metal electrode by very long metal nanowire percolation network. <i>Advanced Materials</i> , 2012 , 24, 3326-32	24	778
4	Flexible Electronics: Highly Stretchable and Highly Conductive Metal Electrode by Very Long Metal Nanowire Percolation Network (Adv. Mater. 25/2012). <i>Advanced Materials</i> , 2012 , 24, 3325-3325	24	9

3	Next generation non-vacuum, maskless, low temperature nanoparticle ink laser digital direct metal patterning for a large area flexible electronics. <i>PLoS ONE</i> , 2012 , 7, e42315	3.7	92
2	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11435-11441	3.8	84
1	Nanoscale electronics: digital fabrication by direct femtosecond laser processing of metal nanoparticles. <i>Advanced Materials</i> , 2011 , 23, 3176-81	24	147