Jinhyeong Kwon

List of Publications by Year in Descending Order

53 papers	3,202 citations	24 h-index	56 g-index
58 ext. papers	3,819 ext. citations	8.3 avg, IF	5.02 L-index

#	Paper	IF	Citations
53	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. *Advanced Functional Materials*, **2021**, 31, 2006854	15.6	4
52	Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 48917-48927	9.5	4
51	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu@Au Core–Shell Nanowire. *Advanced Materials Technologies*, **2020**, 5, 2000661	6.8	9
50	Selective Photo-thermal Conversion of Tungsten Oxide Sol Precursor for Electrochromic Smart Window Applications. *Acta Materialia*, **2020**, 201, 528-534	8.4	7
49	Shape morphing smart 3D actuator materials for micro soft robot. *Materials Today*, **2020**, 41, 243-269	21.8	45
48	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. *Science Advances*, **2019**, 5, eaav4916	14.3	15
47	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. *Advanced Materials Technologies*, **2019**, 4, 1800422	6.8	17
46	Moiré-Free Imperceptible and Flexible Random Metal Grid Electrodes with Large Figure-of-Merit by Photonic Sintering Control of Copper Nanoparticles. *ACS Applied Materials & Interfaces*, **2019**, 11, 15773-15780	9.5	20
45	Stretchable/flexible silver nanowire Electrodes for energy device applications. *Nanoscale*, **2019**, 11, 20356-20378	7.7	48
44	Directional Shape Morphing Transparent Walking Soft Robot. *Soft Robotics*, **2019**, 6, 760-767	9.2	19
43	Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. *Advanced Functional Materials*, **2019**, 29, 1806895	15.6	48
42	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
41	Self-assembled stretchable photonic crystal for a tunable color filter. *Optics Letters*, **2018**, 43, 3501-3504	3	20
40	Perspective: A Brief Perspective on the Fabrication of Hierarchical Nanostructure for Solar Water Splitting Photoelectrochemical Cells. *ECS Journal of Solid State Science and Technology*, **2018**, 7, Q131-Q135	2	1
39	ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. *Nanomaterials*, **2018**, 8,	5.4	9
38	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
37	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

36	Recent progress in silver nanowire based flexible/wearable optoelectronics. *Journal of Materials Chemistry C*, **2018**, 6, 7445-7461	7.1	88
35	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. *Nanomaterials*, **2018**, 8,	5.4	12
34	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
33	Highly Controlled Nanoporous Ag Electrode by Vaporization Control of 2-Ethoxyethanol for a Flexible Supercapacitor Application. *Langmuir*, **2017**, 33, 1854-1860	4	6
32	Flexible and Transparent Cu Electronics by Low-Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. *Advanced Materials Technologies*, **2017**, 2, 1600222	6.8	39
31	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. *Advanced Functional Materials*, **2017**, 27, 1701138	15.6	76
30	High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. *Nano Letters*, **2017**, 17, 4339-4346	11.5	121
29	Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. *ACS Nano*, **2017**, 11, 12311-12317	16.7	29
28	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
27	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
26	Large-Area Compatible Laser Sintering Schemes with a Spatially Extended Focused Beam. *Micromachines*, **2017**, 8, 153	3.3	8
25	Rapid and Effective Electrical Conductivity Improvement of the Ag NW-Based Conductor by Using the Laser-Induced Nano-Welding Process. *Micromachines*, **2017**, 8, 164	3.3	13
24	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
23	Random nanocrack, assisted metal nanowire-bundled network fabrication for a highly flexible and transparent conductor. *RSC Advances*, **2016**, 6, 57434-57440	3.7	50
22	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
21	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. *Energy Technology*, **2016**, 4, 271-277	3.5	9
20	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
19	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

18	Control and Manipulation of Nano Cracks Mimicking Optical Wave. *Scientific Reports*, **2015**, 5, 17292	4.9	10
17	Highly stretchable and transparent metal nanowire heater for wearable electronics applications. *Advanced Materials*, **2015**, 27, 4744-51	24	541
16	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
15	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
14	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
13	Single nanowire resistive nano-heater for highly localized thermo-chemical reactions: localized hierarchical heterojunction nanowire growth. *Small*, **2014**, 10, 5015-22	11	8
12	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
11	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
10	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
9	Carbon nanotube based pressure sensor for flexible electronics. *Materials Research Bulletin*, **2013**, 48, 5036-5039	5.1	31
8	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
7	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
6	Controlled thicknesses of vaporized self-assembled multilayers on copper nanopowders under ultra-high vacuum (UHV). *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 1206-10	1.3	5
5	Study of sintering behavior of vapor forms of 1-octanethiol coated copper nanoparticles for application to ink-jet printing technology. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 3434-7	1.3	9
4	Investigation of oxidation inhibition properties of vaporized self-assembled multilayers on copper nanopowders. *Applied Surface Science*, **2011**, 257, 5115-5120	6.7	21
3	Transmission electron microscopy analysis of octanethiol-coated Cu powders. *Journal of Electron Microscopy*, **2011**, 60, 143-8		
2	Optimization of surface coating condition using vapor form of alkanethiol on Cu nano powders for the application of oxidation prevention. *Applied Surface Science*, **2010**, 256, 2332-2336	6.7	15
1	STUDY OF ELECTRICAL CONDUCTIVITY FOR COPPER NANOPARTICLES WITH VAPOR-DEPOSITED SAMs. *Surface Review and Letters*, **2009**, 16, 519-523	1.1	3