

Jinhyeong Kwon

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 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 | Highly stretchable and transparent metal nanowire heater for wearable electronics applications. <i>Advanced Materials</i> , 2015 , 27, 4744-51 | 24 | 541 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | Recent progress in silver nanowire based flexible/wearable optoelectronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7445-7461 | 7.1 | 88 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. <i>Advanced Functional Materials</i> , 2019 , 29, 1806895 | 15.6 | 48 |
| 38 | Shape morphing smart 3D actuator materials for micro soft robot. <i>Materials Today</i> , 2020 , 41, 243-269 | 21.8 | 45 |
| 37 | Direct selective growth of ZnO nanowire arrays from inkjet-printed zinc acetate precursor on a heated substrate. <i>Nanoscale Research Letters</i> , 2013 , 8, 489 | 5 | 42 |

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| 36 | Stretchable/flexible silver nanowire Electrodes for energy device applications. <i>Nanoscale</i> , 2019 , 11, 20356-20378 | 5.7 | 38 |
| 35 | 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 |
| 34 | 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> , 2016 , 2, 1600277 | 6.4 | 39 |
| 33 | Carbon nanotube based pressure sensor for flexible electronics. <i>Materials Research Bulletin</i> , 2013 , 48, 5036-5039 | 5.1 | 31 |
| 32 | 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 | 11.1 | 30 |
| 31 | 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 |
| 30 | 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 | 12.8 | 29 |
| 29 | 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 |
| 28 | Investigation of oxidation inhibition properties of vaporized self-assembled multilayers on copper nanopowders. <i>Applied Surface Science</i> , 2011 , 257, 5115-5120 | 6.7 | 21 |
| 27 | 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 |
| 26 | Self-assembled stretchable photonic crystal for a tunable color filter. <i>Optics Letters</i> , 2018 , 43, 3501-3504 | 3.5 | 20 |
| 25 | Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , 2019 , 6, 760-767 | 9.2 | 19 |
| 24 | Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800422 | 6.8 | 17 |
| 23 | Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , 2019 , 5, eaav4916 | 14.3 | 15 |
| 22 | Optimization of surface coating condition using vapor form of alkanethiol on Cu nano powders for the application of oxidation prevention. <i>Applied Surface Science</i> , 2010 , 256, 2332-2336 | 6.7 | 15 |
| 21 | Digitally patterned resistive micro heater as a platform for zinc oxide nanowire based micro sensor. <i>Applied Surface Science</i> , 2018 , 447, 1-7 | 6.7 | 14 |
| 20 | 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 |
| 19 | 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 | 6.2 | 13 |

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| 18 | 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 |
| 17 | Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 12 |
| 16 | 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 |
| 15 | Control and Manipulation of Nano Cracks Mimicking Optical Wave. <i>Scientific Reports</i> , 2015 , 5, 17292 | 4.9 | 10 |
| 14 | ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 9 |
| 13 | Study of sintering behavior of vapor forms of 1-octanethiol coated copper nanoparticles for application to ink-jet printing technology. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3434-7 | 1.3 | 9 |
| 12 | Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu@Au Core/Shell Nanowire. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000661 | 6.8 | 9 |
| 11 | Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , 2016 , 4, 271-277 | 3.5 | 9 |
| 10 | 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 |
| 9 | Large-Area Compatible Laser Sintering Schemes with a Spatially Extended Focused Beam. <i>Micromachines</i> , 2017 , 8, 153 | 3.3 | 8 |
| 8 | Selective Photo-thermal Conversion of Tungsten Oxide Sol Precursor for Electrochromic Smart Window Applications. <i>Acta Materialia</i> , 2020 , 201, 528-534 | 8.4 | 7 |
| 7 | Highly Controlled Nanoporous Ag Electrode by Vaporization Control of 2-Ethoxyethanol for a Flexible Supercapacitor Application. <i>Langmuir</i> , 2017 , 33, 1854-1860 | 4 | 6 |
| 6 | Controlled thicknesses of vaporized self-assembled multilayers on copper nanopowders under ultra-high vacuum (UHV). <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1206-10 | 1.3 | 5 |
| 5 | Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48917-48927 | 9.5 | 4 |
| 4 | Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2006854 | 15.6 | 4 |
| 3 | STUDY OF ELECTRICAL CONDUCTIVITY FOR COPPER NANOPARTICLES WITH VAPOR-DEPOSITED SAMs. <i>Surface Review and Letters</i> , 2009 , 16, 519-523 | 1.1 | 3 |
| 2 | 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 | 2.35 | 1 |
| 1 | Transmission electron microscopy analysis of octanethiol-coated Cu powders. <i>Journal of Electron Microscopy</i> , 2011 , 60, 143-8 | | |

