

# Seung Hwan Ko

## List of Publications by Year in descending order

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Version: 2024-02-01

246  
papers

18,381  
citations

13865

67  
h-index

13771

129  
g-index

255  
all docs

255  
docs citations

255  
times ranked

16360  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Evolvable Skin Electronics by In Situ and In Operando Adaptation. <i>Advanced Functional Materials</i> , 2022, 32, 2106329.   | 14.9 | 21        |
| 2  | Monolithic digital patterning of polyimide by laser-induced pyrolytic jetting. <i>Chemical Engineering Journal</i> , 2022, 428, 131050.   | 12.7 | 20        |
| 3  | Transparent Air Filters with Active Thermal Sterilization. <i>Nano Letters</i> , 2022, 22, 524-532.   | 9.1  | 47        |
| 4  | Metal-Oxide Nanomaterials Synthesis and Applications in Flexible and Wearable Sensors. <i>ACS Nanoscience Au</i> , 2022, 2, 64-92.  | 4.8  | 86        |
| 5  | Facile fabrication of flexible metal grid transparent electrode using inkjet-printed dot array as sacrificial layer. <i>Scientific Reports</i> , 2022, 12, 1572.  | 3.3  | 4         |
| 6  | Challenges and Strategies in Developing an Enzymatic Wearable Sweat Glucose Biosensor as a Practical Point-Of-Care Monitoring Tool for Type II Diabetes. <i>Nanomaterials</i> , 2022, 12, 221.                  | 4.1  | 54        |
| 7  | Soft multi-modal thermoelectric skin for dual functionality of underwater energy harvesting and thermoregulation. <i>Nano Energy</i> , 2022, 95, 107002.  | 16.0 | 29        |
| 8  | Multi-Bandgap Monolithic Metal Nanowire Percolation Network Sensor Integration by Reversible Selective Laser-Induced Redox. <i>Nano-Micro Letters</i> , 2022, 14, 49.   | 27.0 | 26        |
| 9  | Recent Advances in 1D Nanomaterial-Based Bioelectronics for Healthcare Applications. <i>Advanced NanoBiomed Research</i> , 2022, 2, .   | 3.6  | 0         |
| 10 | Hierarchically Structured Conductive Polymer Binders with Silver Nanowires for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17340-17347. | 8.0  | 17        |
| 11 | Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. <i>Advanced Functional Materials</i> , 2022, 32, .   | 14.9 | 43        |
| 12 | Recent Advances in 1D Nanomaterial-Based Bioelectronics for Healthcare Applications. <i>Advanced NanoBiomed Research</i> , 2022, 2, .   | 3.6  | 8         |
| 13 | Bioinspired Soft Robotic Fish for Wireless Underwater Control of Gliding Locomotion. <i>Advanced Intelligent Systems</i> , 2022, 4, .   | 6.1  | 14        |
| 14 | Digital selective transformation and patterning of highly conductive hydrogel bioelectronics by laser-induced phase separation. <i>Science Advances</i> , 2022, 8, .  | 10.3 | 63        |
| 15 | Thermo-Haptic Materials and Devices for Wearable Virtual and Augmented Reality. <i>Advanced Functional Materials</i> , 2021, 31, 2007376.   | 14.9 | 28        |
| 16 | A Liquid Metal Based Multimodal Sensor and Haptic Feedback Device for Thermal and Tactile Sensation Generation in Virtual Reality. <i>Advanced Functional Materials</i> , 2021, 31, 2007772.                    | 14.9 | 64        |
| 17 | Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, .  | 14.9 | 11        |
| 18 | Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. <i>Advanced Materials</i> , 2021, 33, e2002397.  | 21.0 | 131       |

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|----|--|------|-----------|
| 19 | Smart Stretchable Electronics for Advanced Human-Machine Interface. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000157.  | 6.1  | 38        |
| 20 | Advances in protective layer-coating on metal nanowires with enhanced stability and their applications. <i>Applied Materials Today</i> , 2021, 22, 100909.   | 4.3  | 38        |
| 21 | Monolithic digital patterning of polydimethylsiloxane with successive laser pyrolysis. <i>Nature Materials</i> , 2021, 20, 100-107.  | 27.5 | 71        |
| 22 | Highly stable silver-platinum core-shell nanowires for $H_2O_2$ detection. <i>Nanoscale</i> , 2021, 13, 13129-13141.   | 5.6  | 15        |
| 23 | Robust flexible electrodes with 2D interlayers. <i>Nature Electronics</i> , 2021, 4, 95-96.  | 26.0 | 8         |
| 24 | Advances in air filtration technologies: structure-based and interaction-based approaches. <i>Materials Today Advances</i> , 2021, 9, 100134.  | 5.2  | 51        |
| 25 | Preface for the Soft and Green Manufacturing and Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 743-744.                          | 4.9  | 1         |
| 26 | Metallic Nanowire Coupled $CsPbBr_3$ Quantum Dots Plasmonic Nanolaser. <i>Advanced Functional Materials</i> , 2021, 31, 2102375.   | 14.9 | 23        |
| 27 | From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates. <i>Advanced Materials</i> , 2021, 33, e2008434.   | 21.0 | 13        |
| 28 | Energy Harvesting Untethered Soft Electronic Devices. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002286.   | 7.6  | 16        |
| 29 | Recent advances in liquid-metal-based wearable electronics and materials. <i>IScience</i> , 2021, 24, 102698.  | 4.1  | 54        |
| 30 | Reversible, Selective, Ultrawide-Range Variable Stiffness Control by Spatial Micro-Water Molecule Manipulation. <i>Advanced Science</i> , 2021, 8, e2102536.   | 11.2 | 6         |
| 31 | Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. <i>Nature Communications</i> , 2021, 12, 4658.   | 12.8 | 94        |
| 32 | Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. <i>ACS Nano</i> , 2021, 15, 15730-15740.                                      | 14.6 | 25        |
| 33 | Functional Materials and Devices for XR (VR/AR/MR) Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2106546.   | 14.9 | 32        |
| 34 | Significant thermoelectric conversion efficiency enhancement of single layer graphene with substitutional silicon dopants. <i>Nano Energy</i> , 2021, 87, 106188.                                      | 16.0 | 25        |
| 35 | High-temperature, thin, flexible and transparent Ni-based heaters patterned by laser-induced reductive sintering on colorless polyimide. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5652-5661. | 5.5  | 27        |
| 36 | Development of Low-Shrink Epoxy Putty to Solve Appearance-Quality Defects of Carbon-Fiber-Reinforced Plastic Automotive Exterior Parts. <i>Materials</i> , 2021, 14, 6419.                             | 2.9  | 1         |

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|----|---|------|-----------|
| 37 | Metal nanowire based electronic devices. , 2021, , .  |      | 0         |
| 38 | Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. <i>Advanced Materials</i> , 2020, 32, e1905527.   | 21.0 | 221       |
| 39 | Biohybrid Actuators for Soft Robotics: Challenges in Scaling Up. <i>Actuators</i> , 2020, 9, 96.  | 2.3  | 27        |
| 40 | Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48917-48927.                            | 8.0  | 11        |
| 41 | Thermally Controlled, Active Imperceptible Artificial Skin in Visible to Infrared Range. <i>Advanced Functional Materials</i> , 2020, 30, 2003328.  | 14.9 | 47        |
| 42 | Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu-Au Core-Shell Nanowire. <i>Advanced Materials Technologies</i> , 2020, 5, 2000661.                            | 5.8  | 33        |
| 43 | 70°C: Low Temperature Process and Material Development for Flexible/Stretchable Transparent Conductor. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 1044-1047.       | 0.3  | 0         |
| 44 | Selective Photo-thermal Conversion of Tungsten Oxide Sol Precursor for Electrochromic Smart Window Applications. <i>Acta Materialia</i> , 2020, 201, 528-534.                                     | 7.9  | 16        |
| 45 | Shape morphing smart 3D actuator materials for micro soft robot. <i>Materials Today</i> , 2020, 41, 243-269.  | 14.2 | 130       |
| 46 | Editorial: Window Electrodes for Emerging Thin Film Photovoltaics. <i>Frontiers in Materials</i> , 2020, 7, .   | 2.4  | 0         |
| 47 | Recent progress in controlled nano/micro cracking as an alternative nano-patterning method for functional applications. <i>Nanoscale Horizons</i> , 2020, 5, 1036-1049.                           | 8.0  | 18        |
| 48 | Operation Range-Optimized Silver Nanowire Through Junction Treatment. <i>Electronic Materials Letters</i> , 2020, 16, 491-497.  | 2.2  | 7         |
| 49 | Highly stretchable and oxidation-resistive Cu nanowire heater for replication of the feeling of heat in a virtual world. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8281-8291.            | 10.3 | 55        |
| 50 | Highly Customizable Transparent Silver Nanowire Patterning via Inkjet-Printed Conductive Polymer Templates Formed on Various Surfaces. <i>Advanced Materials Technologies</i> , 2020, 5, 2000042. | 5.8  | 35        |
| 51 | Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. <i>Advanced Materials Technologies</i> , 2020, 5, 1900939.   | 5.8  | 44        |
| 52 | Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. <i>Advanced Functional Materials</i> , 2020, 30, 1909171.                     | 14.9 | 71        |
| 53 | A deep-learned skin sensor decoding the epicentral human motions. <i>Nature Communications</i> , 2020, 11, 2149.  | 12.8 | 148       |
| 54 | Mechano-thermo-chromic device with supersaturated salt hydrate crystal for next-generation smart window applications. , 2020, , .   |      | 0         |

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|----|---|------|-----------|
| 55 | Stretchable/flexible silver nanowire electrodes for energy device applications. <i>Nanoscale</i> , 2019, 11, 20356-20378.   | 5.6  | 90        |
| 56 | Stretchable and Transparent Kirigami Conductor of Nanowire Percolation Network for Electronic Skin Applications. <i>Nano Letters</i> , 2019, 19, 6087-6096.   | 9.1  | 276       |
| 57 | Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , 2019, 6, 760-767.   | 8.0  | 45        |
| 58 | A Review on Investigation of Graphene Thermal Property: Recent Development in Measurement Techniques. <i>Multiscale Science and Engineering</i> , 2019, 1, 267-279.   | 1.7  | 2         |
| 59 | Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , 2019, 5, eaav4916.   | 10.3 | 26        |
| 60 | Crazy colour printing without ink. <i>Nature</i> , 2019, 570, 312-313.  | 27.8 | 3         |
| 61 | Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. <i>Advanced Materials Technologies</i> , 2019, 4, 1800422.   | 5.8  | 29        |
| 62 | A Review on Hierarchical Origami and Kirigami Structure for Engineering Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 147-161.                        | 4.9  | 53        |
| 63 | Boosted thermal conductance of polycrystalline graphene by spin-coated silver nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 547-553.   | 4.8  | 10        |
| 64 | Transparent wearable three-dimensional touch by self-generated multiscale structure. <i>Nature Communications</i> , 2019, 10, 2582.   | 12.8 | 64        |
| 65 | Graphene as a material for energy generation and control: Recent progress in the control of graphene thermal conductivity by graphene defect engineering. <i>Materials Today Energy</i> , 2019, 12, 431-442.                | 4.7  | 76        |
| 66 | Thermal conductivity reduction of multilayer graphene with fine grain sizes. <i>JMST Advances</i> , 2019, 1, 191-195.   | 1.9  | 7         |
| 67 | Interfacial Thermal Contact Conductance inside the Graphene-Bi <sub>2</sub> Te <sub>3</sub> Heterostructure. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900275.   | 3.7  | 9         |
| 68 | 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> , 2019, 11, 15773-15780. | 8.0  | 35        |
| 69 | Bending-durable membrane-electrode assembly using metal nanowires for bendable polymer electrolyte membrane fuel cell. <i>Energy</i> , 2019, 172, 874-880.  | 8.8  | 14        |
| 70 | Significant thermal conductivity reduction of CVD graphene with relatively low hole densities fabricated by focused ion beam processing. <i>Applied Physics Letters</i> , 2019, 114, .                                      | 3.3  | 9         |
| 71 | Flexible resistive pressure sensor with silver nanowire networks embedded in polymer using natural formation of air gap. <i>Composites Science and Technology</i> , 2019, 174, 50-57.                                       | 7.8  | 61        |
| 72 | Study on the oxidation of copper nanowire network electrodes for skin mountable flexible, stretchable and wearable electronics applications. <i>Nanotechnology</i> , 2019, 30, 074001.                                      | 2.6  | 42        |

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|----|---|------|-----------|
| 73 | Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. <i>Advanced Functional Materials</i> , 2019, 29, 1806895.   | 14.9 | 97        |
| 74 | Digitally patterned resistive micro heater as a platform for zinc oxide nanowire based micro sensor. <i>Applied Surface Science</i> , 2018, 447, 1-7.   | 6.1  | 24        |
| 75 | Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , 2018, 11, 2511.   | 2.9  | 4         |
| 76 | Enhanced Thermoelectric Conversion Efficiency of CVD Graphene with Reduced Grain Sizes. <i>Nanomaterials</i> , 2018, 8, 557.  | 4.1  | 19        |
| 77 | Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , 2018, 8, 645.   | 4.1  | 14        |
| 78 | Self-assembled stretchable photonic crystal for a tunable color filter. <i>Optics Letters</i> , 2018, 43, 3501.   | 3.3  | 24        |
| 79 | An efficient reduced graphene-oxide filter for PM <sub>2.5</sub> removal. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16975-16982.   | 10.3 | 67        |
| 80 | 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. | 1.8  | 1         |
| 81 | ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. <i>Nanomaterials</i> , 2018, 8, 323.  | 4.1  | 16        |
| 82 | 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.   | 8.6  | 45        |
| 83 | Two orders of magnitude suppression of graphene's thermal conductivity by heavy dopants (Si). <i>Carbon</i> , 2018, 138, 98-107.  | 10.3 | 28        |
| 84 | 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.              | 14.9 | 198       |
| 85 | Recent progress in silver nanowire based flexible/wearable optoelectronics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7445-7461.   | 5.5  | 125       |
| 86 | A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. <i>Nanoscale</i> , 2017, 9, 1978-1985.   | 5.6  | 101       |
| 87 | Ag/Au/Polypyrrole Core-shell Nanowire Network for Transparent, Stretchable and Flexible Supercapacitor in Wearable Energy Devices. <i>Scientific Reports</i> , 2017, 7, 41981.  | 3.3  | 212       |
| 88 | Highly Controlled Nanoporous Ag Electrode by Vaporization Control of 2-Ethoxyethanol for a Flexible Supercapacitor Application. <i>Langmuir</i> , 2017, 33, 1854-1860.  | 3.5  | 8         |
| 89 | Flexible and Transparent Cu Electronics by Low Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. <i>Advanced Materials Technologies</i> , 2017, 2, 1600222.   | 5.8  | 59        |
| 90 | Thermally stable Ag@ZrO <sub>2</sub> core-shell via atomic layer deposition. <i>Materials Letters</i> , 2017, 188, 372-374.   | 2.6  | 24        |

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|-----|--|------|-----------|
| 91  | Effect of assembly pressure on the performance of a bendable polymer electrolyte fuel cell based on a silver nanowire current collector. <i>Energy</i> , 2017, 134, 412-419.   | 8.8  | 32        |
| 92  | Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. <i>Advanced Functional Materials</i> , 2017, 27, 1701138.  | 14.9 | 98        |
| 93  | High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. <i>Nano Letters</i> , 2017, 17, 4339-4346.   | 9.1  | 196       |
| 94  | 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.   | 5.5  | 52        |
| 95  | Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. <i>ACS Nano</i> , 2017, 11, 12311-12317.  | 14.6 | 36        |
| 96  | Effect of graphene-substrate conformity on the in-plane thermal conductivity of supported graphene. <i>Carbon</i> , 2017, 125, 39-48.  | 10.3 | 24        |
| 97  | 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.  | 3.1  | 15        |
| 98  | 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> , 2017, 9, 44609-44616.                                     | 8.0  | 270       |
| 99  | Metal Nanowire-Coated Metal Woven Mesh for High-Performance Stretchable Transparent Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40905-40913.  | 8.0  | 34        |
| 100 | Performance variation of bendable polymer electrolyte fuel cell based on Ag nanowire current collector under mixed bending and twisting load. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1884-1890.   | 7.1  | 32        |
| 101 | Flexible and highly sensitive multi-dimensional strain sensor with intersecting metal nanowire arrays. , 2017, , .   |      | 1         |
| 102 | Recent progress in laser assisted digital selective nanomaterial processing. , 2017, , .   |      | 0         |
| 103 | A three-dimensional metal grid mesh as a practical alternative to ITO. <i>Nanoscale</i> , 2016, 8, 14257-14263.  | 5.6  | 43        |
| 104 | Simple hydrothermal synthesis of very-long and thin silver nanowires and their application in high quality transparent electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11365-11371.   | 10.3 | 154       |
| 105 | Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , 2016, 4, 271-277.   | 3.8  | 10        |
| 106 | Flexible fuel cell using stiffness-controlled endplate. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6013-6019.   | 7.1  | 45        |
| 107 | From design for manufacturing (DFM) to manufacturing for design (MFD) via hybrid manufacturing and smart factory: A review and perspective of paradigm shift. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016, 3, 209-222. | 4.9  | 59        |
| 108 | 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> , 2016, 8, 11575-11582.  | 8.0  | 160       |

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|-----|---|------|-----------|
| 109 | Digital selective laser methods for nanomaterials: From synthesis to processing. <i>Nano Today</i> , 2016, 11, 547-564.   | 11.9 | 118       |
| 110 | Solution-Processible Crystalline NiO Nanoparticles for High-Performance Planar Perovskite Photovoltaic Cells. <i>Scientific Reports</i> , 2016, 6, 30759.   | 3.3  | 166       |
| 111 | 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.                                | 5.1  | 63        |
| 112 | Low temperature thermal engineering of nanoparticle ink for flexible electronics applications. <i>Semiconductor Science and Technology</i> , 2016, 31, 073003.  | 2.0  | 29        |
| 113 | Random nanocrack, assisted metal nanowire-bundled network fabrication for a highly flexible and transparent conductor. <i>RSC Advances</i> , 2016, 6, 57434-57440.  | 3.6  | 60        |
| 114 | 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. | 4.9  | 11        |
| 115 | Low-haze, annealing-free, very long Ag nanowire synthesis and its application in a flexible transparent touch panel. <i>Nanotechnology</i> , 2016, 27, 295201.  | 2.6  | 73        |
| 116 | Highly Stretchable and Transparent Supercapacitor by Ag@Au Core-Shell Nanowire Network with High Electrochemical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15449-15458.   | 8.0  | 243       |
| 117 | Hybrid subtractive micro-patterning of a self-assembled SiO <sub>2</sub> nano/microsphere monolayer. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 105006.  | 2.6  | 2         |
| 118 | Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction ( <i>Adv. Mater.</i> 41/2015). <i>Advanced Materials</i> , 2015, 27, 6396-6396.            | 21.0 | 2         |
| 119 | Control and Manipulation of Nano Cracks Mimicking Optical Wave. <i>Scientific Reports</i> , 2015, 5, 17292.   | 3.3  | 14        |
| 120 | Highly Stretchable and Transparent Metal Nanowire Heater for Wearable Electronics Applications. <i>Advanced Materials</i> , 2015, 27, 4744-4751.  | 21.0 | 667       |
| 121 | Nanorecycling: Monolithic Integration of Copper and Copper Oxide Nanowire Network Electrode through Selective Reversible Photothermochemical Reduction. <i>Advanced Materials</i> , 2015, 27, 6397-6403.  | 21.0 | 125       |
| 122 | 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.  | 10.3 | 68        |
| 123 | Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. <i>ACS Nano</i> , 2015, 9, 6059-6068.   | 14.6 | 82        |
| 124 | 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.                                    | 1.8  | 16        |
| 125 | Focused Energy Field Method for the Localized Synthesis and Direct Integration of 1D Nanomaterials on Microelectronic Devices. <i>Advanced Materials</i> , 2015, 27, 1207-1215.   | 21.0 | 55        |
| 126 | The Effect of Particle Morphology on Unipolar Diffusion Charging of Silver Nanowires. <i>Aerosol Science and Technology</i> , 2015, 49, 290-298.  | 3.1  | 2         |



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|-----|---|------|-----------|
| 127 | Highly Sensitive and Stretchable Multidimensional Strain Sensor with Prestrained Anisotropic Metal Nanowire Percolation Networks. <i>Nano Letters</i> , 2015, 15, 5240-5247.  | 9.1  | 527       |
| 128 | Advanced Inkjet Technology for 3D Micro-metal Structure Fabrication. , 2015, , 425-439.   |      | 4         |
| 129 | Low-Cost Facile Fabrication of Flexible Transparent Copper Electrodes by Nanosecond Laser Ablation. <i>Advanced Materials</i> , 2015, 27, 2762-2767.  | 21.0 | 126       |
| 130 | A Hyper-Stretchable Elastic-Composite Energy Harvester. <i>Advanced Materials</i> , 2015, 27, 2866-2875.  | 21.0 | 350       |
| 131 | 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.                                   | 1.8  | 10        |
| 132 | Selective Laser Direct Patterning of Silver Nanowire Percolation Network Transparent Conductor for Capacitive Touch Panel. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2317-2323.  | 0.9  | 83        |
| 133 | Ultrasonication assisted production of silver nanowires with low aspect ratio and their optical properties. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 35-40.   | 8.2  | 19        |
| 134 | Silver nanoparticle piezoresistive sensors fabricated by roll-to-roll slot-die coating and laser direct writing. <i>Optics Express</i> , 2014, 22, 8919.  | 3.4  | 27        |
| 135 | Mechanical and environmental durability of roll-to-roll printed silver nanoparticle film using a rapid laser annealing process for flexible electronics. <i>Microelectronics Reliability</i> , 2014, 54, 2871-2880.                             | 1.7  | 36        |
| 136 | In Situ Monitoring of Laser-Assisted Hydrothermal Growth of ZnO Nanowires: Thermally Deactivating Growth Kinetics. <i>Small</i> , 2014, 10, 741-749.  | 10.0 | 39        |
| 137 | Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. <i>Nanoscale</i> , 2014, 6, 2895.  | 5.6  | 47        |
| 138 | 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.  | 3.1  | 25        |
| 139 | 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> , 2014, 6, 2786-2790. | 8.0  | 65        |
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