

Seung Hwan Ko

List of Publications by Year in descending order

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285
papers

19,923
citations

7462

72
h-index

9067

135
g-index

300
all docs

300
docs citations

300
times ranked

17908
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart filtering facepiece respirator with self-adaptive fit and wireless humidity monitoring. <i>Biomaterials</i> , 2025, 314, 122866.	12.3	0
2	Nanoscale gradient interface for efficient heat transfer. <i>Nature Nanotechnology</i> , 2025, 20, 8-9.	23.9	0
3	Deployable electronics with enhanced fatigue resistance for crumpling and tension. <i>Science Advances</i> , 2025, 11, .	11.3	0
4	High Efficiency Breathable Thermoelectric Skin Using Multimode Radiative Cooling/Solar Heating Assisted Large Thermal Gradient. <i>Small</i> , 2024, 20, .	11.6	11
5	Nature's Blueprint in Bioinspired Materials for Robotics. <i>Advanced Functional Materials</i> , 2024, 34, .	17.1	17
6	Laser-Based Selective Material Processing for Next-Generation Additive Manufacturing. <i>Advanced Materials</i> , 2024, 36, .	24.7	13
7	Recent Developments and Future Directions of Wearable Skin Biosignal Sensors. <i>Advanced Sensor Research</i> , 2024, 3, .	3.4	18
8	Machine-learned wearable sensors for real-time hand-motion recognition: toward practical applications. <i>National Science Review</i> , 2024, 11, .	10.0	41
9	Switchable radiative cooling and solar heating for sustainable thermal management. <i>Nanophotonics</i> , 2024, 13, 543-561.	6.7	10
10	Strain-Insensitive Outdoor Wearable Electronics by Thermally Robust Nanofibrous Radiative Cooler. <i>ACS Nano</i> , 2024, 18, 2312-2324.	15.4	15
11	Strain-Insensitive Outdoor Wearable Electronics by Thermally Robust Nanofibrous Radiative Cooler. <i>ACS Nano</i> , 2024, 18, 2312-2324.	15.4	3
12	Adaptive Epidermal Bioelectronics by Highly Breathable and Stretchable Metal Nanowire Bioelectrodes on Electrospun Nanofiber Membrane. <i>Advanced Functional Materials</i> , 2024, 34, .	17.1	10
13	A Gradient Stiffness-Programmed Circuit Board by Spatially Controlled Phase-Transition of Supercooled Hydrogel for Stretchable Electronics Integration. <i>Advanced Materials</i> , 2024, 36, .	24.7	5
14	Thermodynamic Mechanism Governing the Coalescence of Conductive Particles in PEDOT:PSS under Laser Irradiation. <i>Macromolecules</i> , 2024, 57, 2048-2056.	5.2	3
15	Laser treatment for creating a substrate-free liquid metal and its various applications. , 2024, , 16.		0
16	Recent developments in wearable breath sensors for healthcare monitoring. <i>Communications Materials</i> , 2024, 5, .	9.0	26
17	Phase patterning of liquid crystal elastomers by laser-induced dynamic crosslinking. <i>Nature Materials</i> , 2024, 23, 834-843.	20.9	18
18	Recent Progress in High-Efficiency Transparent Vacuum Insulation Technologies for Carbon Neutrality. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2024, 11, 1681-1702.	4.5	1

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19	Rapid prototyping and facile customization of conductive hydrogel bioelectronics based on all laser process. <i>Biosensors and Bioelectronics</i> , 2024, 258, 116327.	9.9	1
20	Untethered soft actuators for soft standalone robotics. <i>Nature Communications</i> , 2024, 15, .	14.1	20
21	Rigidityâ€Tunable Materials for Soft Engineering Systems. <i>Advanced Engineering Materials</i> , 2024, 26, .	3.0	2
22	Laser-induced wet stability and adhesion of pure conducting polymer hydrogels. <i>Nature Electronics</i> , 2024, 7, 475-486.	18.3	27
23	MXene-Enhanced Ionovoltaic Effect by Evaporation and Water Infiltration in Semiconductor Nanochannels. <i>ACS Nano</i> , 2024, 18, 13130-13140.	15.4	1
24	Stretchable Thermoelectric Generators for Selfâ€Powered Wearable Health Monitoring. <i>Advanced Functional Materials</i> , 2024, 34, .	17.1	6
25	Electrochemical biosensors for point-of-care testing. <i>Bio-Design and Manufacturing</i> , 2024, 7, 548-565.	6.3	10
26	Bioinspired electronics for intelligent soft robots. <i>Nature Reviews Electrical Engineering</i> , 2024, 1, 597-613.	0.0	6
27	Human Circulatory/Respiratoryâ€Inspired Comprehensive Air Purification System. <i>Advanced Materials</i> , 2024, 36, .	24.7	3
28	An ultrathin organicâ€inorganic integrated device for optical biomarker monitoring. <i>Nature Electronics</i> , 2024, 7, 914-923.	18.3	0
29	Decoding tissue biomechanics using conformable electronic devices. <i>Nature Reviews Materials</i> , 2024, 10, 4-27.	32.0	1
30	Radiative cooling technology with artificial intelligence. <i>IScience</i> , 2024, 27, 111325.	3.8	1
31	Metal nanowire based electronic devices. , 2023, , 685-693.		0
32	Liquid Metal Patterning and Unique Properties for Nextâ€Generation Soft Electronics. <i>Advanced Science</i> , 2023, 10, .	12.8	53
33	Advancement in COVIDâ€19 detection using nanomaterialâ€based biosensors. <i>Exploration</i> , 2023, 3, .	18.0	33
34	Laser-induced graphene based on paper for smart food decay sensor. , 2023, , 47.		0
35	An Agâ€Au-PANI coreâ€shell nanowire network for visible-to-infrared data encryption and supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2023, 11, 7264-7275.	9.3	12
36	Laser-induced entanglement of liquid metal and silver nanowire for monolithically variable and stretchable heater. , 2023, , 53.		0

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37	Recent Advances in Biodegradable Green Electronic Materials and Sensor Applications. <i>Advanced Materials</i> , 2023, 35, .	24.7	49
38	Liquid Metal based Stretchable Room Temperature Soldering Sticker Patch for Stretchable Electronics Integration. <i>Advanced Functional Materials</i> , 2023, 33, .	17.1	25
39	Pattern design of a liquid metal-based wearable heater for constant heat generation under biaxial strain. <i>IScience</i> , 2023, 26, 107008.	3.8	7
40	Photonic structures in radiative cooling. <i>Light: Science and Applications</i> , 2023, 12, .	16.0	96
41	Transparent Electronics for Wearable Electronics Application. <i>Chemical Reviews</i> , 2023, 123, 9982-10078.	54.6	110
42	Hierarchical 3D Percolation Network of Ag@Au Core-Shell Nanowire-Hydrogel Composite for Efficient Biohybride Electrodes. <i>ACS Nano</i> , 2023, 17, 17966-17978.	15.4	17
43	Photothermally Activated Artificial Neuromorphic Synapses. <i>Nano Letters</i> , 2023, 23, 9020-9025.	8.8	9
44	Photothermal Lithography for Realizing a Stretchable Multilayer Electronic Circuit Using a Laser. <i>ACS Nano</i> , 2023, 17, 21443-21454.	15.4	10
45	Evolvable Skin Electronics by In Situ and In Operando Adaptation. <i>Advanced Functional Materials</i> , 2022, 32, .	17.1	26
46	Monolithic digital patterning of polyimide by laser-induced pyrolytic jetting. <i>Chemical Engineering Journal</i> , 2022, 428, 131050.	11.9	27
47	Transparent Air Filters with Active Thermal Sterilization. <i>Nano Letters</i> , 2022, 22, 524-532.	8.8	55
48	Metal-Oxide Nanomaterials Synthesis and Applications in Flexible and Wearable Sensors. <i>ACS Nanoscience Au</i> , 2022, 2, 64-92.	6.6	155
49	Facile fabrication of flexible metal grid transparent electrode using inkjet-printed dot array as sacrificial layer. <i>Scientific Reports</i> , 2022, 12, .	3.7	5
50	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.	4.2	85
51	Soft multi-modal thermoelectric skin for dual functionality of underwater energy harvesting and thermoregulation. <i>Nano Energy</i> , 2022, 95, 107002.	16.3	47
52	Multi-Bandgap Monolithic Metal Nanowire Percolation Network Sensor Integration by Reversible Selective Laser-Induced Redox. <i>Nano-Micro Letters</i> , 2022, 14, .	30.1	35
53	Laser based metal/metal-oxide nanomaterial processing. , 2022, , 16.		0
54	Hierarchically Structured Conductive Polymer Binders with Silver Nanowires for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17340-17347.	8.1	24

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55	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. <i>Advanced Functional Materials</i> , 2022, 32, .	17.1	59
56	Recent Advances in 1D Nanomaterial-Based Bioelectronics for Healthcare Applications. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	4.2	12
57	Bioinspired Soft Robotic Fish for Wireless Underwater Control of Gliding Locomotion. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.4	22
58	Biomimetic reconstruction of butterfly wing scale nanostructures for radiative cooling and structural coloration. <i>Nanoscale Horizons</i> , 2022, 7, 1054-1064.	6.6	42
59	Digital selective transformation and patterning of highly conductive hydrogel bioelectronics by laser-induced phase separation. <i>Science Advances</i> , 2022, 8, .	11.3	114
60	Smart paper electronics by laser-induced graphene for biodegradable real-time food spoilage monitoring. <i>Applied Materials Today</i> , 2022, 29, 101589.	4.0	44
61	Monolithically Programmed Stretchable Conductor by Laser-Induced Entanglement of Liquid Metal and Metallic Nanowire Backbone. <i>Small</i> , 2022, 18, .	11.6	33
62	Rapid Synthesis of Multifunctional Apatite via the Laser-Induced Hydrothermal Process. <i>ACS Nano</i> , 2022, 16, 12840-12851.	15.4	9
63	The colour of stress. <i>Nature Materials</i> , 2022, 21, 997-998.	20.9	7
64	Materials and devices for immersive virtual reality. <i>Nature Reviews Materials</i> , 2022, 7, 841-843.	32.0	71
65	Digital Selective Reversible Phase Control of Monolithically Integrated Heterogeneous Piezoelectric Polymer for Frequency Dependent Unimorph. <i>Advanced Optical Materials</i> , 2022, 10, .	7.1	4
66	Recent advances in selective laser-material interaction for biomedical device applications. <i>Applied Physics Reviews</i> , 2022, 9, .	10.7	14
67	3D Printing of Liquid Metal Embedded Elastomers for Soft Thermal and Electrical Materials. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 55028-55038.	8.1	48
68	Nanowire-assisted freestanding liquid metal thin-film patterns for highly stretchable electrodes on 3D surfaces. <i>Npj Flexible Electronics</i> , 2022, 6, .	14.6	37
69	A substrate-less nanomesh receptor with meta-learning for rapid hand task recognition. <i>Nature Electronics</i> , 2022, , .	18.3	62
70	Thermo-Haptic Materials and Devices for Wearable Virtual and Augmented Reality. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	43
71	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, .	17.1	93
72	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	12

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73	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. <i>Advanced Materials</i> , 2021, 33, .	24.7	162
74	Smart Stretchable Electronics for Advanced Human-Machine Interface. <i>Advanced Intelligent Systems</i> , 2021, 3, .	6.4	44
75	Advances in protective layer-coating on metal nanowires with enhanced stability and their applications. <i>Applied Materials Today</i> , 2021, 22, 100909.	4.0	48
76	Highly stable silver-platinum core-shell nanowires for H_2O_2 detection. <i>Nanoscale</i> , 2021, 13, 13129-13141.	5.1	18
77	Robust flexible electrodes with 2D interlayers. <i>Nature Electronics</i> , 2021, 4, 95-96.	18.3	10
78	Advances in air filtration technologies: structure-based and interaction-based approaches. <i>Materials Today Advances</i> , 2021, 9, 100134.	5.3	85
79	Preface for the Soft and Green Manufacturing and Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 743-744.	4.5	1
80	Metallic Nanowire Coupled $CsPbBr_3$ Quantum Dots Plasmonic Nanolaser. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	33
81	From Chaos to Control: Programmable Crack Patterning with Molecular Order in Polymer Substrates. <i>Advanced Materials</i> , 2021, 33, .	24.7	14
82	Energy Harvesting Untethered Soft Electronic Devices. <i>Advanced Healthcare Materials</i> , 2021, 10, .	8.9	20
83	Recent advances in liquid-metal-based wearable electronics and materials. <i>IScience</i> , 2021, 24, 102698.	3.8	72
84	Reversible, Selective, Ultrawide-Range Variable Stiffness Control by Spatial Micro-Water Molecule Manipulation. <i>Advanced Science</i> , 2021, 8, .	12.8	8
85	Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. <i>Nature Communications</i> , 2021, 12, .	14.1	140
86	Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. <i>ACS Nano</i> , 2021, 15, 15730-15740.	15.4	32
87	Functional Materials and Devices for XR (VR/AR/MR) Applications. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	49
88	Significant thermoelectric conversion efficiency enhancement of single layer graphene with substitutional silicon dopants. <i>Nano Energy</i> , 2021, 87, 106188.	16.3	29
89	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.	5.1	37
90	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	5

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91	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. <i>Advanced Materials</i> , 2020, 32, .	24.7	284
92	Biohybrid Actuators for Soft Robotics: Challenges in Scaling Up. <i>Actuators</i> , 2020, 9, 96.	2.2	37
93	Laser-Induced Crystalline-Phase Transformation for Hematite Nanorod Photoelectrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48917-48927.	8.1	16
94	Thermally Controlled, Active Imperceptible Artificial Skin in Visible–Infrared Range. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	62
95	Biocompatible Cost–Effective Electrophysiological Monitoring with Oxidation–Free Cu–Au Core–Shell Nanowire. <i>Advanced Materials Technologies</i> , 2020, 5, .	6.1	38
96	70– Low Temperature Process and Material Development for Flexible/Stretchable Transparent Conductor. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 1044-1047.	0.5	0
97	Selective Photo-thermal Conversion of Tungsten Oxide Sol Precursor for Electrochromic Smart Window Applications. <i>Acta Materialia</i> , 2020, 201, 528-534.	8.6	19
98	Shape morphing smart 3D actuator materials for micro soft robot. <i>Materials Today</i> , 2020, 41, 243-269.	12.7	167
99	Editorial: Window Electrodes for Emerging Thin Film Photovoltaics. <i>Frontiers in Materials</i> , 2020, 7, .	2.5	0
100	Recent progress in controlled nano/micro cracking as an alternative nano-patterning method for functional applications. <i>Nanoscale Horizons</i> , 2020, 5, 1036-1049.	6.6	21
101	Operation Range-Optimized Silver Nanowire Through Junction Treatment. <i>Electronic Materials Letters</i> , 2020, 16, 491-497.	2.2	8
102	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.	9.3	70
103	Highly Customizable Transparent Silver Nanowire Patterning via Inkjet–Printed Conductive Polymer Templates Formed on Various Surfaces. <i>Advanced Materials Technologies</i> , 2020, 5, .	6.1	38
104	Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. <i>Advanced Materials Technologies</i> , 2020, 5, .	6.1	54
105	Stretchable Skin–Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	97
106	A deep-learned skin sensor decoding the epicentral human motions. <i>Nature Communications</i> , 2020, 11, .	14.1	194
107	Monolithic digital patterning of polydimethylsiloxane with successive laser pyrolysis. <i>Nature Materials</i> , 2020, 20, 100-107.	20.9	89
108	Mechano-thermo-chromic device with supersaturated salt hydrate crystal for next-generation smart window applications. , 2020, , 31.		0

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109	Stretchable/flexible silver nanowire electrodes for energy device applications. <i>Nanoscale</i> , 2019, 11, 20356-20378.	5.1	108
110	Stretchable and Transparent Kirigami Conductor of Nanowire Percolation Network for Electronic Skin Applications. <i>Nano Letters</i> , 2019, 19, 6087-6096.	8.8	338
111	Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , 2019, 6, 760-767.	7.9	63
112	A Review on Investigation of Graphene Thermal Property: Recent Development in Measurement Techniques. <i>Multiscale Science and Engineering</i> , 2019, 1, 267-279.	3.6	3
113	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , 2019, 5, .	11.3	32
114	Crazy colour printing without ink. <i>Nature</i> , 2019, 570, 312-313.	40.1	5
115	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. <i>Advanced Materials Technologies</i> , 2019, 4, .	6.1	31
116	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.	4.5	65
117	Boosted thermal conductance of polycrystalline graphene by spin-coated silver nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 547-553.	5.6	12
118	Transparent wearable three-dimensional touch by self-generated multiscale structure. <i>Nature Communications</i> , 2019, 10, .	14.1	77
119	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.	5.3	88
120	Thermal conductivity reduction of multilayer graphene with fine grain sizes. <i>JMST Advances</i> , 2019, 1, 191-195.	1.9	8
121	Interfacial Thermal Contact Conductance inside the Graphene-Bi ₂ Te ₃ Heterostructure. <i>Advanced Materials Interfaces</i> , 2019, 6, .	4.2	10
122	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.	8.1	42
123	Bending-durable membrane-electrode assembly using metal nanowires for bendable polymer electrolyte membrane fuel cell. <i>Energy</i> , 2019, 172, 874-880.	9.3	16
124	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, .	3.2	9
125	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.	8.8	72
126	Study on the oxidation of copper nanowire network electrodes for skin mountable flexible, stretchable and wearable electronics applications. <i>Nanotechnology</i> , 2019, 30, 074001.	2.7	45

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127	Highly Stable Ni-Based Flexible Transparent Conducting Panels Fabricated by Laser Digital Patterning. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	109
128	Digitally patterned resistive micro heater as a platform for zinc oxide nanowire based micro sensor. <i>Applied Surface Science</i> , 2018, 447, 1-7.	6.6	25
129	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , 2018, 11, 2511.	2.9	5
130	Enhanced Thermoelectric Conversion Efficiency of CVD Graphene with Reduced Grain Sizes. <i>Nanomaterials</i> , 2018, 8, 557.	4.2	23
131	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , 2018, 8, 645.	4.2	14
132	Self-assembled stretchable photonic crystal for a tunable color filter. <i>Optics Letters</i> , 2018, 43, 3501.	3.2	26
133	An efficient reduced graphene-oxide filter for PM _{2.5} removal. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16975-16982.	9.3	75
134	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.	2.2	1
135	ZnO/CuO/M (M = Ag, Au) Hierarchical Nanostructure by Successive Photoreduction Process for Solar Hydrogen Generation. <i>Nanomaterials</i> , 2018, 8, 323.	4.2	20
136	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, .	9.1	46
137	Two orders of magnitude suppression of graphene's thermal conductivity by heavy dopants (Si). <i>Carbon</i> , 2018, 138, 98-107.	10.4	30
138	Biomimetic Color Changing Anisotropic Soft Actuators with Integrated Metal Nanowire Percolation Network Transparent Heaters for Soft Robotics. <i>Advanced Functional Materials</i> , 2018, 28, .	17.1	222
139	Recent progress in silver nanowire based flexible/wearable optoelectronics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7445-7461.	5.1	141
140	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. <i>Nanoscale</i> , 2017, 9, 1978-1985.	5.1	106
141	Ag/Au/Polypyrrole Core-shell Nanowire Network for Transparent, Stretchable and Flexible Supercapacitor in Wearable Energy Devices. <i>Scientific Reports</i> , 2017, 7, .	3.7	231
142	Highly Controlled Nanoporous Ag Electrode by Vaporization Control of 2-Ethoxyethanol for a Flexible Supercapacitor Application. <i>Langmuir</i> , 2017, 33, 1854-1860.	3.8	9
143	Flexible and Transparent Cu Electronics by Low Temperature Acid-Assisted Laser Processing of Cu Nanoparticles. <i>Advanced Materials Technologies</i> , 2017, 2, .	6.1	65
144	Thermally stable Ag@ZrO ₂ core-shell via atomic layer deposition. <i>Materials Letters</i> , 2017, 188, 372-374.	2.6	27

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145	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.	9.3	33
146	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. <i>Advanced Functional Materials</i> , 2017, 27, .	17.1	103
147	High Efficiency, Transparent, Reusable, and Active PM2.5 Filters by Hierarchical Ag Nanowire Percolation Network. <i>Nano Letters</i> , 2017, 17, 4339-4346.	8.8	221
148	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.	5.1	54
149	Nanowire-on-Nanowire: All-Nanowire Electronics by On-Demand Selective Integration of Hierarchical Heterogeneous Nanowires. <i>ACS Nano</i> , 2017, 11, 12311-12317.	15.4	40
150	Effect of graphene-substrate conformity on the in-plane thermal conductivity of supported graphene. <i>Carbon</i> , 2017, 125, 39-48.	10.4	27
151	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.	3.2	15
152	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.	8.1	288
153	Metal Nanowire-Coated Metal Woven Mesh for High-Performance Stretchable Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40905-40913.	8.1	35
154	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.	9.2	39
155	Flexible and highly sensitive multi-dimensional strain sensor with intersecting metal nanowire arrays. <i>Sensors</i> , 2017, 5, 62-64.		2
156	Recent progress in laser assisted digital selective nanomaterial processing. <i>Journal of Manufacturing Processes</i> , 2017, 1, 1-4.		0
157	A three-dimensional metal grid mesh as a practical alternative to ITO. <i>Nanoscale</i> , 2016, 8, 14257-14263.	5.1	43
158	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.	9.3	166
159	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , 2016, 4, 271-277.	3.4	12
160	Flexible fuel cell using stiffness-controlled endplate. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6013-6019.	9.2	49
161	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.	4.5	62
162	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, 11575-11582.	8.1	168

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163	Digital selective laser methods for nanomaterials: From synthesis to processing. <i>Nano Today</i> , 2016, 11, 547-564.	9.8	135
164	Solution-Processible Crystalline NiO Nanoparticles for High-Performance Planar Perovskite Photovoltaic Cells. <i>Scientific Reports</i> , 2016, 6, .	3.7	184
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