

# Seungyong Han

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8555531/publications.pdf>

Version: 2024-02-01

53  
papers

5,366  
citations

186265

28  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

7052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft Directional Adhesion Gripper Fabricated by 3D Printing Process for Gripping Flexible Printed Circuit Boards. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2022, 9, 1151-1163.	4.9	13
2	Intagliated Cu substrate containing multifunctional lithiophilic trenches for Li metal anodes. <i>Chemical Engineering Journal</i> , 2022, 428, 130939.	12.7	2
3	Design of a Biologically Inspired Water-Walking Robot Powered by Artificial Muscle. <i>Micromachines</i> , 2022, 13, 627.	2.9	4
4	Functional Encapsulating Structure for Wireless and Immediate Monitoring of the Fluid Penetration. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
5	Actuating compact wearable augmented reality devices by multifunctional artificial muscle. <i>Nature Communications</i> , 2022, 13, .	12.8	24
6	Digital Laser Micropainting for Reprogrammable Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	11
7	Digital Laser Micropainting: Digital Laser Micropainting for Reprogrammable Optoelectronic Applications ( <i>Adv. Funct. Mater.</i> 1/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170002.	14.9	0
8	Design of a Sensitive Balloon Sensor for Safe Human-Robot Interaction. <i>Sensors</i> , 2021, 21, 2163.	3.8	8
9	Vital signal sensing and manipulation of a microscale organ with a multifunctional soft gripper. <i>Science Robotics</i> , 2021, 6, eabi6774.	17.6	38
10	Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu-Au Core-Shell Nanowire. <i>Advanced Materials Technologies</i> , 2020, 5, 2000661.	5.8	33
11	Electroosmosis-Driven Hydrogel Actuators Using Hydrophobic/Hydrophilic Layer-By-Layer Assembly-Induced Crack Electrodes. <i>ACS Nano</i> , 2020, 14, 11906-11918.	14.6	31
12	Wearable Electronics: Biocompatible Cost-Effective Electrophysiological Monitoring with Oxidation-Free Cu-Au Core-Shell Nanowire ( <i>Adv. Mater. Technol.</i> 12/2020). <i>Advanced Materials Technologies</i> , 2020, 5, 2070073.	5.8	3
13	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
14	Stretchable/flexible silver nanowire electrodes for energy device applications. <i>Nanoscale</i> , 2019, 11, 20356-20378.	5.6	90
15	Directional Shape Morphing Transparent Walking Soft Robot. <i>Soft Robotics</i> , 2019, 6, 760-767.	8.0	45
16	Anode-Free Sodium Metal Batteries Based on Nanohybrid Core-Shell Templates. <i>Small</i> , 2019, 15, e1901274.	10.0	34
17	Sodium Metal Batteries: Anode-Free Sodium Metal Batteries Based on Nanohybrid Core-Shell Templates ( <i>Small</i> 37/2019). <i>Small</i> , 2019, 15, 1970201.	10.0	0
18	Mechano-thermo-chromic device with supersaturated salt hydrate crystal phase change. <i>Science Advances</i> , 2019, 5, eaav4916.	10.3	26

#	ARTICLE	IF	CITATIONS
19	Semipermanent Copper Nanowire Network with an Oxidation-Proof Encapsulation Layer. <i>Advanced Materials Technologies</i> , 2019, 4, 1800422.	5.8	29
20	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , 2019, 13, 10972-10979.	14.6	134
21	FEP Encapsulated Crack-Based Sensor for Measurement in Moisture-Laden Environment. <i>Materials</i> , 2019, 12, 1516.	2.9	12
22	Design of Polarization-Independent and Wide-Angle Broadband Absorbers for Highly Efficient Reflective Structural Color Filters. <i>Materials</i> , 2019, 12, 1050.	2.9	13
23	Nature-inspired rollable electronics. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	10
24	Foot Plantar Pressure Measurement System Using Highly Sensitive Crack-Based Sensor. <i>Sensors</i> , 2019, 19, 5504.	3.8	26
25	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
26	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. <i>Science Advances</i> , 2019, 5, eaav3294.	10.3	497
27	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	247
28	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018, 12, 4164-4171.	14.6	36
29	Shear-Assisted Laser Transfer of Metal Nanoparticle Ink to an Elastomer Substrate. <i>Materials</i> , 2018, 11, 2511.	2.9	4
30	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. <i>Scientific Reports</i> , 2018, 8, 14907.	3.3	4
31	Relation between blood pressure and pulse wave velocity for human arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11144-11149.	7.1	193
32	Effect of Metal Thickness on the Sensitivity of Crack-Based Sensors. <i>Sensors</i> , 2018, 18, 2872.	3.8	22
33	Micropatterning of Metal Nanoparticle Ink by Laser-Induced Thermocapillary Flow. <i>Nanomaterials</i> , 2018, 8, 645.	4.1	14
34	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
35	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
36	Graphene- and Carbon-Nanotube-Based Transparent Electrodes for Semitransparent Solar Cells. <i>Materials</i> , 2018, 11, 1503.	2.9	36

#	ARTICLE	IF	CITATIONS
37	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
38	Recent progress in silver nanowire based flexible/wearable optoelectronics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7445-7461.	5.5	125
39	Thin, Soft, Skin-Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono-Sampling of Sweat. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601355.	7.6	209
40	Microfluidic Networks: Thin, Soft, Skin-Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono-Sampling of Sweat ( <i>Adv. Healthcare Mater.</i> 5/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	7.6	3
41	Concentrator photovoltaic module architectures with capabilities for capture and conversion of full global solar radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8210-E8218.	7.1	48
42	Mechanically Reinforced Skin-Electronics with Networked Nanocomposite Elastomer. <i>Advanced Materials</i> , 2016, 28, 10257-10265.	21.0	108
43	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , 2016, 8, 366ra165.	12.4	933
44	Nanowires: 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
45	Highly Stretchable and Transparent Metal Nanowire Heater for Wearable Electronics Applications. <i>Advanced Materials</i> , 2015, 27, 4744-4751.	21.0	667
46	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
47	Nanocomposites: Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite ( <i>Adv. Funct. Mater.</i> 36/2014). <i>Advanced Functional Materials</i> , 2014, 24, 5618-5618.	14.9	2
48	Flexible Electronics: Fast Plasmonic Laser Nanowelding for a Cu-Nanowire Percolation Network for Flexible Transparent Conductors and Stretchable Electronics ( <i>Adv. Mater.</i> 33/2014). <i>Advanced Materials</i> , 2014, 26, 5888-5888.	21.0	3
49	Highly Stretchable or Transparent Conductor Fabrication by a Hierarchical Multiscale Hybrid Nanocomposite. <i>Advanced Functional Materials</i> , 2014, 24, 5671-5678.	14.9	297
50	Full-Field Subwavelength Imaging Using a Scattering Superlens. <i>Physical Review Letters</i> , 2014, 113, 113901.	7.8	81
51	Fast Plasmonic Laser Nanowelding for a Cu-Nanowire Percolation Network for Flexible Transparent Conductors and Stretchable Electronics. <i>Advanced Materials</i> , 2014, 26, 5808-5814.	21.0	410
52	Subwavelength light focusing using random nanoparticles. <i>Nature Photonics</i> , 2013, 7, 454-458.	31.4	160
53	One-Step Fabrication of Copper Electrode by Laser-Induced Direct Local Reduction and Agglomeration of Copper Oxide Nanoparticle. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23664-23670.	3.1	165