

# Taeyoon Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56  
papers

3,005  
citations

24  
h-index

54  
g-index

66  
ext. papers

3,581  
ext. citations

10.7  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
56	Deterministic Multimodal Perturbation Enables Neuromorphic-Compatible Signal Multiplexing <b>2022</b> , 4, 102-110		1
55	Ultrahigh Sensitive Au-Doped Silicon Nanomembrane Based Wearable Sensor Arrays for Continuous Skin Temperature Monitoring with High Precision. <i>Advanced Materials</i> , <b>2021</b> , e2105865	24	10
54	Electronic Drugs: Spatial and Temporal Medical Treatment of Human Diseases. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005930	24	6
53	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	4
52	Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 749-758	19	23
51	PE-ALD of Ge <sub>1-x</sub> S <sub>x</sub> amorphous chalcogenide alloys for OTS applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 6006-6013	7.1	2
50	Silicon nanomembrane phototransistor flipped with multifunctional sensors toward smart digital dust. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6511	14.3	11
49	Ultrastretchable Helical Conductive Fibers Using Percolated Ag Nanoparticle Networks Encapsulated by Elastic Polymers with High Durability in Omnidirectional Deformations for Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910026	15.6	22
48	Stretchable Electronics: Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications (Adv. Mater. 5/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070038	24	6
47	Cerebral Oximetry: Ultrastretchable Helical Conductive Fibers Using Percolated Ag Nanoparticle Networks Encapsulated by Elastic Polymers with High Durability in Omnidirectional Deformations for Wearable Electronics (Adv. Funct. Mater. 29/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070198	15.6	
46	Self-Bondable and Stretchable Conductive Composite Fibers with Spatially Controlled Percolated Ag Nanoparticle Networks: Novel Integration Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005447	15.6	15
45	Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for Multisensing Wearable Electronics: Crack-Based Strain and H Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 45243-45253	9.5	8
44	Increased aortic augmentation index is associated with reduced exercise capacity after heart transplantation. <i>Journal of Hypertension</i> , <b>2020</b> , 38, 1777-1785	1.9	1
43	Facile method for the preparation of high-performance photodetectors with a GQDs/perovskite bilayer heterostructure. <i>Organic Electronics</i> , <b>2020</b> , 76, 105444	3.5	11
42	Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902532	24	111
41	Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film-Based Sensors for Wearable Applications. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900230	6.8	33
40	Enhanced Photoresponsivity of All-Inorganic (CsPbBr <sub>3</sub> ) Perovskite Nanosheets Photodetector with Carbon Nanodots (CDs). <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 678	2.6	15

39	Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905808	15.6	39
38	Spray Coating Technologies: Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications (Adv. Funct. Mater. 50/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970344	15.6	
37	Nonfluorinated Superomniphobic Surfaces through Shape-Tunable Mushroom-like Polymeric Micropillar Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5484-5491	9.5	13
36	Highly Sensitive Multifilament Fiber Strain Sensors with Ultrabroad Sensing Range for Textile Electronics. <i>ACS Nano</i> , <b>2018</b> , 12, 4259-4268	16.7	136
35	Stimuli-responsive and on-chip nanomembrane micro-rolls for enhanced macroscopic visual hydrogen detection. <i>Science Advances</i> , <b>2018</b> , 4, eaap8203	14.3	32
34	Single-Droplet Multiplex Bioassay on a Robust and Stretchable Extreme Wetting Substrate through Vacuum-Based Droplet Manipulation. <i>ACS Nano</i> , <b>2018</b> , 12, 932-941	16.7	62
33	Chemical and Physical Pathways for Fabricating Flexible Superamphiphobic Surfaces with High Transparency. <i>Coatings</i> , <b>2018</b> , 8, 47	2.9	14
32	Highly Conductive Fiber with Waterproof and Self-Cleaning Properties for Textile Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36094-36101	9.5	37
31	A Droplet-Based High-Throughput SERS Platform on a Droplet-Guiding-Track-Engraved Superhydrophobic Substrate. <i>Small</i> , <b>2017</b> , 13, 1602865	11	31
30	Rough-Surface-Enabled Capacitive Pressure Sensors with 3D Touch Capability. <i>Small</i> , <b>2017</b> , 13, 1700368	11	95
29	Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H <sub>2</sub> Sensors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701618	15.6	28
28	Highly conductive and flexible fiber for textile electronics obtained by extremely low-temperature atomic layer deposition of Pt. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e331-e331	10.3	41
27	Ultrafast single-droplet bouncing actuator with electrostatic force on superhydrophobic electrodes. <i>RSC Advances</i> , <b>2016</b> , 6, 66729-66737	3.7	16
26	Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600356	6.4	163
25	Pressure Sensors: Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing (Adv. Electron. Mater. 12/2016). <i>Advanced Electronic Materials</i> , <b>2016</b> , 2,	6.4	1
24	Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 17763-17774	9.5	61
23	Bio-Inspired Extreme Wetting Surfaces for Biomedical Applications. <i>Materials</i> , <b>2016</b> , 9,	3.5	86
22	Triboelectric Nanogenerator Accelerates Highly Efficient Nonviral Direct Conversion and In Vivo Reprogramming of Fibroblasts to Functional Neuronal Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 7365-74	24	70

21	A facile method for the selective decoration of graphene defects based on a galvanic displacement reaction. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e262-e262	10.3	14
20	Conductive fiber-based ultrasensitive textile pressure sensor for wearable electronics. <i>Advanced Materials</i> , <b>2015</b> , 27, 2433-9	24	746
19	Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. <i>Scientific Reports</i> , <b>2015</b> , 5, 12306	4.9	30
18	Reversible Liquid Adhesion Switching of Superamphiphobic Pd-Decorated Ag Dendrites via Gas-Induced Structural Changes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4964-4971	9.6	23
17	Ag Nanowire Reinforced Highly Stretchable Conductive Fibers for Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3114-3121	15.6	407
16	Counterbalanced Effect of Surface Trap and Auger Recombination on the Transverse Terahertz Carrier Dynamics in Silicon Nanowires. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2015</b> , 5, 605-612	3.4	3
15	The impact of atomic layer deposited SiO <sub>2</sub> passivation for high-k Ta <sub>1-x</sub> ZrxO on the InP substrate. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10293-10301	7.1	10
14	Electrostatically-induced trajectory switching system on a multi-inlet-multi-outlet superhydrophobic droplet guiding track. <i>RSC Advances</i> , <b>2015</b> , 5, 5754-5761	3.7	7
13	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. <i>Scientific Reports</i> , <b>2015</b> , 5, 12326	4.9	56
12	Textile-Based Electronic Components for Energy Applications: Principles, Problems, and Perspective. <i>Nanomaterials</i> , <b>2015</b> , 5, 1493-1531	5.4	62
11	Highly Stable Surface-Enhanced Raman Spectroscopy Substrates Using Few-Layer Graphene on Silver Nanoparticles. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-7	3.2	11
10	Switchable water-adhesive, superhydrophobic palladium-layered silicon nanowires potentiate the angiogenic efficacy of human stem cell spheroids. <i>Advanced Materials</i> , <b>2014</b> , 26, 7043-50	24	64
9	Coupled self-assembled monolayer for enhancement of Cu diffusion barrier and adhesion properties. <i>RSC Advances</i> , <b>2014</b> , 4, 60123-60130	3.7	13
8	Reversible wettability control of silicon nanowire surfaces: From superhydrophilicity to superhydrophobicity. <i>Thin Solid Films</i> , <b>2013</b> , 527, 179-185	2.2	21
7	Gas-driven ultrafast reversible switching of super-hydrophobic adhesion on palladium-coated silicon nanowires. <i>Advanced Materials</i> , <b>2013</b> , 25, 4139-44	24	57
6	The effects of surface modification on the electrical properties of p <sup>+</sup> n junction silicon nanowires grown by an aqueous electroless etching method. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	4
5	Guided transport of water droplets on superhydrophobic-hydrophilic patterned Si nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 4722-9	9.5	79
4	Flatband voltage control in p-metal gate metal-oxide-semiconductor field effect transistor by insertion of TiO <sub>2</sub> layer. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 082905	3.4	14

3	Wrinkling evolution of a growing bubble: the wonders of petal-like patterns in amorphous silicon membranes. <i>Soft Matter</i> , <b>2010</b> , 6, 3249	3.6	12
2	Hysteresis behavior of electrical resistance in Pd thin films during the process of absorption and desorption of hydrogen gas. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6984-6991	6.7	138
1	Effect of the deposition temperature and a hydrogen post-annealing treatment on the structural, electrical, and optical properties of Ga-doped ZnO films. <i>Electronic Materials Letters</i> , <b>2009</b> , 5, 127-133	2.9	11