

Taeyoon Lee

List of Publications by Citations

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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 | Conductive fiber-based ultrasensitive textile pressure sensor for wearable electronics. <i>Advanced Materials</i> , 2015 , 27, 2433-9 | 24 | 746 |
| 55 | Ag Nanowire Reinforced Highly Stretchable Conductive Fibers for Wearable Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 3114-3121 | 15.6 | 407 |
| 54 | Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600356 | 6.4 | 163 |
| 53 | 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> , 2010 , 35, 6984-6991 | 6.7 | 138 |
| 52 | Highly Sensitive Multifilament Fiber Strain Sensors with Ultrabroad Sensing Range for Textile Electronics. <i>ACS Nano</i> , 2018 , 12, 4259-4268 | 16.7 | 136 |
| 51 | Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications. <i>Advanced Materials</i> , 2020 , 32, e1902532 | 24 | 111 |
| 50 | Rough-Surface-Enabled Capacitive Pressure Sensors with 3D Touch Capability. <i>Small</i> , 2017 , 13, 1700368 | 11 | 95 |
| 49 | Bio-Inspired Extreme Wetting Surfaces for Biomedical Applications. <i>Materials</i> , 2016 , 9, | 3.5 | 86 |
| 48 | Guided transport of water droplets on superhydrophobic-hydrophilic patterned Si nanowires. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4722-9 | 9.5 | 79 |
| 47 | Triboelectric Nanogenerator Accelerates Highly Efficient Nonviral Direct Conversion and In Vivo Reprogramming of Fibroblasts to Functional Neuronal Cells. <i>Advanced Materials</i> , 2016 , 28, 7365-74 | 24 | 70 |
| 46 | Switchable water-adhesive, superhydrophobic palladium-layered silicon nanowires potentiate the angiogenic efficacy of human stem cell spheroids. <i>Advanced Materials</i> , 2014 , 26, 7043-50 | 24 | 64 |
| 45 | Single-Droplet Multiplex Bioassay on a Robust and Stretchable Extreme Wetting Substrate through Vacuum-Based Droplet Manipulation. <i>ACS Nano</i> , 2018 , 12, 932-941 | 16.7 | 62 |
| 44 | Textile-Based Electronic Components for Energy Applications: Principles, Problems, and Perspective. <i>Nanomaterials</i> , 2015 , 5, 1493-1531 | 5.4 | 62 |
| 43 | Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17763-74 | 9.5 | 61 |
| 42 | Gas-driven ultrafast reversible switching of super-hydrophobic adhesion on palladium-coated silicon nanowires. <i>Advanced Materials</i> , 2013 , 25, 4139-44 | 24 | 57 |
| 41 | Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. <i>Scientific Reports</i> , 2015 , 5, 12326 | 4.9 | 56 |
| 40 | Highly conductive and flexible fiber for textile electronics obtained by extremely low-temperature atomic layer deposition of Pt. <i>NPG Asia Materials</i> , 2016 , 8, e331-e331 | 10.3 | 41 |

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| 39 | Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1905808 | 15.6 | 39 |
| 38 | Highly Conductive Fiber with Waterproof and Self-Cleaning Properties for Textile Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36094-36101 | 9.5 | 37 |
| 37 | Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film-Based Sensors for Wearable Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900230 | 6.8 | 33 |
| 36 | Stimuli-responsive and on-chip nanomembrane micro-rolls for enhanced macroscopic visual hydrogen detection. <i>Science Advances</i> , 2018 , 4, eaap8203 | 14.3 | 32 |
| 35 | A Droplet-Based High-Throughput SERS Platform on a Droplet-Guiding-Track-Engraved Superhydrophobic Substrate. <i>Small</i> , 2017 , 13, 1602865 | 11 | 31 |
| 34 | Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. <i>Scientific Reports</i> , 2015 , 5, 12306 | 4.9 | 30 |
| 33 | Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H ₂ Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1701618 | 15.6 | 28 |
| 32 | Reversible Liquid Adhesion Switching of Superamphiphobic Pd-Decorated Ag Dendrites via Gas-Induced Structural Changes. <i>Chemistry of Materials</i> , 2015 , 27, 4964-4971 | 9.6 | 23 |
| 31 | Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. <i>Nature Biomedical Engineering</i> , 2021 , 5, 749-758 | 19 | 23 |
| 30 | 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> , 2020 , 30, 1910026 | 15.6 | 22 |
| 29 | Reversible wettability control of silicon nanowire surfaces: From superhydrophilicity to superhydrophobicity. <i>Thin Solid Films</i> , 2013 , 527, 179-185 | 2.2 | 21 |
| 28 | Ultrafast single-droplet bouncing actuator with electrostatic force on superhydrophobic electrodes. <i>RSC Advances</i> , 2016 , 6, 66729-66737 | 3.7 | 16 |
| 27 | Enhanced Photoresponsivity of All-Inorganic (CsPbBr ₃) Perovskite Nanosheets Photodetector with Carbon Nanodots (CDs). <i>Electronics (Switzerland)</i> , 2019 , 8, 678 | 2.6 | 15 |
| 26 | 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> , 2020 , 30, 2005447 | 15.6 | 15 |
| 25 | Chemical and Physical Pathways for Fabricating Flexible Superamphiphobic Surfaces with High Transparency. <i>Coatings</i> , 2018 , 8, 47 | 2.9 | 14 |
| 24 | Flatband voltage control in p-metal gate metal-oxide-semiconductor field effect transistor by insertion of TiO ₂ layer. <i>Applied Physics Letters</i> , 2010 , 96, 082905 | 3.4 | 14 |
| 23 | A facile method for the selective decoration of graphene defects based on a galvanic displacement reaction. <i>NPG Asia Materials</i> , 2016 , 8, e262-e262 | 10.3 | 14 |
| 22 | Coupled self-assembled monolayer for enhancement of Cu diffusion barrier and adhesion properties. <i>RSC Advances</i> , 2014 , 4, 60123-60130 | 3.7 | 13 |

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| 21 | Nonfluorinated Superomniphobic Surfaces through Shape-Tunable Mushroom-like Polymeric Micropillar Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5484-5491 | 9.5 | 13 |
| 20 | Wrinkling evolution of a growing bubble: the wonders of petal-like patterns in amorphous silicon membranes. <i>Soft Matter</i> , 2010 , 6, 3249 | 3.6 | 12 |
| 19 | Silicon nanomembrane phototransistor flipped with multifunctional sensors toward smart digital dust. <i>Science Advances</i> , 2020 , 6, eaaz6511 | 14.3 | 11 |
| 18 | Highly Stable Surface-Enhanced Raman Spectroscopy Substrates Using Few-Layer Graphene on Silver Nanoparticles. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7 | 3.2 | 11 |
| 17 | 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> , 2009 , 5, 127-133 | 2.9 | 11 |
| 16 | Facile method for the preparation of high-performance photodetectors with a QDs/perovskite bilayer heterostructure. <i>Organic Electronics</i> , 2020 , 76, 105444 | 3.5 | 11 |
| 15 | The impact of atomic layer deposited SiO ₂ passivation for high-k Ta _{1-x} ZrxO ₅ on the InP substrate. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10293-10301 | 7.1 | 10 |
| 14 | Ultrahigh Sensitive Au-Doped Silicon Nanomembrane Based Wearable Sensor Arrays for Continuous Skin Temperature Monitoring with High Precision. <i>Advanced Materials</i> , 2021 , e2105865 | 24 | 10 |
| 13 | Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for Multisensing Wearable Electronics: Crack-Based Strain and H ₂ Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45243-45253 | 9.5 | 8 |
| 12 | Electrostatically-induced trajectory switching system on a multi-inlet-multi-outlet superhydrophobic droplet guiding track. <i>RSC Advances</i> , 2015 , 5, 5754-5761 | 3.7 | 7 |
| 11 | 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> , 2020 , 32, 2070038 | 24 | 6 |
| 10 | Electronic Drugs: Spatial and Temporal Medical Treatment of Human Diseases. <i>Advanced Materials</i> , 2021 , 33, e2005930 | 24 | 6 |
| 9 | The effects of surface modification on the electrical properties of p-n junction silicon nanowires grown by an aqueous electroless etching method. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1 | 2.3 | 4 |
| 8 | Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , 2021 , 7, | 14.3 | 4 |
| 7 | 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> , 2015 , 5, 605-612 | 3.4 | 3 |
| 6 | PE-ALD of Ge _{1-x} S _x amorphous chalcogenide alloys for OTS applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 6006-6013 | 7.1 | 2 |
| 5 | 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> , 2016 , 2, | 6.4 | 1 |
| 4 | Increased aortic augmentation index is associated with reduced exercise capacity after heart transplantation. <i>Journal of Hypertension</i> , 2020 , 38, 1777-1785 | 1.9 | 1 |

- 3 Deterministic Multimodal Perturbation Enables Neuromorphic-Compatible Signal Multiplexing
2022, 4, 102-110 1
- 2 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). *Advanced Functional Materials*, **2020**, 30, 2070198 15.6
- 1 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). *Advanced Functional Materials*, **2019**, 29, 1970344 15.6