

Taeyoon Lee

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

4,224
citations

201658

27
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66
times ranked

6119
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductive Fiber-Based Ultrasensitive Textile Pressure Sensor for Wearable Electronics. <i>Advanced Materials</i> , 2015, 27, 2433-2439.	21.0	929
2	Ag Nanowire Reinforced Highly Stretchable Conductive Fibers for Wearable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 3114-3121.	14.9	493
3	Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing. <i>Advanced Electronic Materials</i> , 2016, 2, 1600356.	5.1	264
4	Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications. <i>Advanced Materials</i> , 2020, 32, e1902532.	21.0	219
5	Highly Sensitive Multifilament Fiber Strain Sensors with Ultrabroad Sensing Range for Textile Electronics. <i>ACS Nano</i> , 2018, 12, 4259-4268.	14.6	207
6	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.	7.1	170
7	Rough-Surface-Enabled Capacitive Pressure Sensors with 3D Touch Capability. <i>Small</i> , 2017, 13, 1700368.	10.0	142
8	Bio-Inspired Extreme Wetting Surfaces for Biomedical Applications. <i>Materials</i> , 2016, 9, 116.	2.9	110
9	Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. <i>Nature Biomedical Engineering</i> , 2021, 5, 749-758.	22.5	100
10	Guided Transport of Water Droplets on Superhydrophobic-Hydrophilic Patterned Si Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4722-4729.	8.0	91
11	Triboelectric Nanogenerator Accelerates Highly Efficient Nonviral Direct Conversion and In Vivo Reprogramming of Fibroblasts to Functional Neuronal Cells. <i>Advanced Materials</i> , 2016, 28, 7365-7374.	21.0	90
12	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.	14.6	82
13	Textile-Based Electronic Components for Energy Applications: Principles, Problems, and Perspective. <i>Nanomaterials</i> , 2015, 5, 1493-1531.	4.1	81
14	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, 17763-17774.	8.0	81
15	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.	14.9	78
16	Switchable Water-Adhesive, Superhydrophobic Palladium-Layered Silicon Nanowires Potentiate the Angiogenic Efficacy of Human Stem Cell Spheroids. <i>Advanced Materials</i> , 2014, 26, 7043-7050.	21.0	73
17	Ultrahigh Sensitive Au-Doped Silicon Nanomembrane Based Wearable Sensor Arrays for Continuous Skin Temperature Monitoring with High Precision. <i>Advanced Materials</i> , 2022, 34, e2105865.	21.0	69
18	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. <i>Scientific Reports</i> , 2015, 5, 12326.	3.3	65

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19	Gas-Driven Ultrafast Reversible Switching of Superhydrophobic Adhesion on Palladium-Coated Silicon Nanowires. <i>Advanced Materials</i> , 2013, 25, 4139-4144.	21.0	61
20	Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film-Based Sensors for Wearable Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900230.	5.8	60
21	Highly Conductive Fiber with Waterproof and Self-Cleaning Properties for Textile Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36094-36101.	8.0	53
22	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.	7.9	51
23	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.	14.9	47
24	Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H ₂ Sensors. <i>Advanced Functional Materials</i> , 2017, 27, 1701618.	14.9	43
25	Stimuli-responsive and on-chip nanomembrane micro-rolls for enhanced macroscopic visual hydrogen detection. <i>Science Advances</i> , 2018, 4, eaap8203.	10.3	43
26	A Droplet-Based High-Throughput SERS Platform on a Droplet-Guiding-Track-Engraved Superhydrophobic Substrate. <i>Small</i> , 2017, 13, 1602865.	10.0	38
27	Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. <i>Scientific Reports</i> , 2015, 5, 12306.	3.3	32
28	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.	14.9	28
29	Reversible wettability control of silicon nanowire surfaces: From superhydrophilicity to superhydrophobicity. <i>Thin Solid Films</i> , 2013, 527, 179-185.	1.8	27
30	Reversible Liquid Adhesion Switching of Superamphiphobic Pd-Decorated Ag Dendrites via Gas-Induced Structural Changes. <i>Chemistry of Materials</i> , 2015, 27, 4964-4971.	6.7	27
31	Nonfluorinated Superomniphobic Surfaces through Shape-Tunable Mushroom-like Polymeric Micropillar Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5484-5491.	8.0	26
32	Silicon nanomembrane phototransistor flipped with multifunctional sensors toward smart digital dust. <i>Science Advances</i> , 2020, 6, eaaz6511.	10.3	24
33	Coupled self-assembled monolayer for enhancement of Cu diffusion barrier and adhesion properties. <i>RSC Advances</i> , 2014, 4, 60123-60130.	3.6	22
34	Enhanced Photoresponsivity of All-Inorganic (CsPbBr ₃) Perovskite Nanosheets Photodetector with Carbon Nanodots (CDs). <i>Electronics (Switzerland)</i> , 2019, 8, 678.	3.1	22
35	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , 2021, 7, .	10.3	22
36	Chemical and Physical Pathways for Fabricating Flexible Superamphiphobic Surfaces with High Transparency. <i>Coatings</i> , 2018, 8, 47.	2.6	21

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37	Facile method for the preparation of high-performance photodetectors with a QDs/perovskite bilayer heterostructure. <i>Organic Electronics</i> , 2020, 76, 105444.	2.6	21
38	Ultrafast single-droplet bouncing actuator with electrostatic force on superhydrophobic electrodes. <i>RSC Advances</i> , 2016, 6, 66729-66737.	3.6	19
39	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.	2.2	16
40	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.	8.0	16
41	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.	7.9	15
42	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, .	3.3	14
43	Wrinkling evolution of a growing bubble: the wonders of petal-like patterns in amorphous silicon membranes. <i>Soft Matter</i> , 2010, 6, 3249.	2.7	14
44	Highly Stable Surface-Enhanced Raman Spectroscopy Substrates Using Few-Layer Graphene on Silver Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	2.7	14
45	Electronic Drugs: Spatial and Temporal Medical Treatment of Human Diseases. <i>Advanced Materials</i> , 2021, 33, e2005930.	21.0	14
46	The impact of atomic layer deposited SiO ₂ passivation for high-k Ta _{1-x} Zr _x O on the InP substrate. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10293-10301.	5.5	13
47	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.	5.5	12
48	Electrostatically-induced trajectory switching system on a multi-inlet-multi-outlet superhydrophobic droplet guiding track. <i>RSC Advances</i> , 2015, 5, 5754-5761.	3.6	9
49	Stretchable Electronics: Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications (<i>Adv. Mater.</i> 5/2020). <i>Advanced Materials</i> , 2020, 32, 2070038.	21.0	9
50	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.	3.1	5
51	The effects of surface modification on the electrical properties of n + junction silicon nanowires grown by an aqueous electroless etching method. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	4
52	Deterministic Multimodal Perturbation Enables Neuromorphic-Compatible Signal Multiplexing. , 2022, 4, 102-110.		3
53	Pressure Sensors: Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing (<i>Adv. Electron. Mater.</i> 12/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	5.1	1
54	Cerebral Oximetry: Ultrastretchable Helical Conductive Fibers Using Percolated Ag Nanoparticle Networks Encapsulated by Elastic Polymers with High Durability in Omnidirectional Deformations for Wearable Electronics (<i>Adv. Funct. Mater.</i> 29/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070198.	14.9	1

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55	Increased aortic augmentation index is associated with reduced exercise capacity after heart transplantation. <i>Journal of Hypertension</i> , 2020, 38, 1777-1785.	0.5	1
56	Spray Coating Technologies: Conductive Hierarchical Hairy Fibers for Highly Sensitive, Stretchable, and Water-Resistant Multimodal Gesture-Distinguishable Sensor, VR Applications (<i>Adv. Funct. Mater.</i>)	10.0	10