

Jaehong Lee

List of Publications by Citations

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33
papers

2,423
citations

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h-index

38
g-index

38
ext. papers

2,921
ext. citations

11.5
avg, IF

4.96
L-index

#	Paper	IF	Citations
33	Conductive fiber-based ultrasensitive textile pressure sensor for wearable electronics. <i>Advanced Materials</i> , 2015 , 27, 2433-9	24	746
32	Ag Nanowire Reinforced Highly Stretchable Conductive Fibers for Wearable Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 3114-3121	15.6	407
31	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
30	Highly Sensitive Multifilament Fiber Strain Sensors with Ultrabroad Sensing Range for Textile Electronics. <i>ACS Nano</i> , 2018 , 12, 4259-4268	16.7	136
29	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
28	Rough-Surface-Enabled Capacitive Pressure Sensors with 3D Touch Capability. <i>Small</i> , 2017 , 13, 1700368	11	95
27	Guided transport of water droplets on superhydrophobic-hydrophilic patterned Si nanowires. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4722-9	9.5	79
26	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
25	Textile-Based Electronic Components for Energy Applications: Principles, Problems, and Perspective. <i>Nanomaterials</i> , 2015 , 5, 1493-1531	5.4	62
24	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	9.5	61
23	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. <i>Scientific Reports</i> , 2015 , 5, 12326	4.9	56
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	10.3	41
21	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
20	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
19	Capillary force-induced glue-free printing of Ag nanoparticle arrays for highly sensitive SERS substrates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9053-60	9.5	35
18	Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film-Based Sensors for Wearable Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900230	6.8	33
17	Biomimetic-inspired micro-nano hierarchical structures for capacitive pressure sensor applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 151, 107095	4.6	32

16	A Droplet-Based High-Throughput SERS Platform on a Droplet-Guiding-Track-Engraved Superhydrophobic Substrate. <i>Small</i> , 2017 , 13, 1602865	11	31
15	Stretchable and suturable fibre sensors for wireless monitoring of connective tissue strain. <i>Nature Electronics</i> , 2021 , 4, 291-301	28.4	30
14	Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H ₂ Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1701618	15.6	28
13	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
12	Reversible wettability control of silicon nanowire surfaces: From superhydrophilicity to superhydrophobicity. <i>Thin Solid Films</i> , 2013 , 527, 179-185	2.2	21
11	Opto-E-Dura: A Soft, Stretchable ECoG Array for Multimodal, Multiscale Neuroscience. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000814	10.1	17
10	Ultrafast single-droplet bouncing actuator with electrostatic force on superhydrophobic electrodes. <i>RSC Advances</i> , 2016 , 6, 66729-66737	3.7	16
9	Soft Electronics Based on Stretchable and Conductive Nanocomposites for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001397	10.1	15
8	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
7	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
6	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
5	In Situ Formation of Ag Nanoparticles for Fiber Strain Sensors: Toward Textile-Based Wearable Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39868-39879	9.5	5
4	A multifunctional electronic suture for continuous strain monitoring and on-demand drug release. <i>Nanoscale</i> , 2021 , 13, 18112-18124	7.7	3
3	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
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). <i>Advanced Functional Materials</i> , 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). <i>Advanced Functional Materials</i> , 2019 , 29, 1970344	15.6	