

Jihyun Bae

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,603
citations

331670

21
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

6003
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Stretchable Resistive Pressure Sensors Using a Conductive Elastomeric Composite on a Micropyramid Array. <i>Advanced Materials</i> , 2014, 26, 3451-3458.	21.0	1,030
2	Highly stretchable electric circuits from a composite material of silver nanoparticles and elastomeric fibres. <i>Nature Nanotechnology</i> , 2012, 7, 803-809.	31.5	782
3	A Flexible Bimodal Sensor Array for Simultaneous Sensing of Pressure and Temperature. <i>Advanced Materials</i> , 2014, 26, 796-804.	21.0	375
4	Flutter-driven triboelectrification for harvesting wind energy. <i>Nature Communications</i> , 2014, 5, 4929.	12.8	338
5	Highly sensitive and selective hydrogen sulfide and toluene sensors using Pd functionalized WO ₃ nanofibers for potential diagnosis of halitosis and lung cancer. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 574-581.	7.8	210
6	Effects of Substrate on Piezoelectricity of Electrospun Poly(vinylidene fluoride)-Nanofiber-Based Energy Generators. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3520-3527.	8.0	82
7	Layer by layer assembly of ultrathin V ₂ O ₅ anchored MWCNTs and graphene on textile fabrics for fabrication of high energy density flexible supercapacitor electrodes. <i>Nanoscale</i> , 2014, 6, 4125.	5.6	80
8	A Sensor Array Using Multi-functional Field-effect Transistors with Ultrahigh Sensitivity and Precision for Bio-monitoring. <i>Scientific Reports</i> , 2015, 5, 12705.	3.3	79
9	Depletion width engineering via surface modification for high performance semiconducting piezoelectric nanogenerators. <i>Nano Energy</i> , 2014, 8, 165-173.	16.0	73
10	Scalable and facile synthesis of stretchable thermoelectric fabric for wearable self-powered temperature sensors. <i>RSC Advances</i> , 2018, 8, 39992-39999.	3.6	58
11	BaTiO ₃ @PVDF-TrFE nanocomposites with efficient orientation prepared via phase separation nano-coating method for piezoelectric performance improvement and application to 3D-PENG. <i>Chemical Engineering Journal</i> , 2022, 427, 131030.	12.7	55
12	Preparation and properties of multi-functionalized cotton fabrics treated by extracts of gromwell and gallnut. <i>Cellulose</i> , 2012, 19, 507-515.	4.9	53
13	Novel multi-layered 1-D nanostructure exhibiting the theoretical capacity of silicon for a super-enhanced lithium-ion battery. <i>Nanoscale</i> , 2014, 6, 5989.	5.6	47
14	Highly Bendable and Rotational Textile Structure with Prestrained Conductive Sewing Pattern for Human Joint Monitoring. <i>Advanced Functional Materials</i> , 2019, 29, 1808369.	14.9	47
15	Conformal coating of ultrathin Ni(OH) ₂ on ZnO nanowires grown on textile fiber for efficient flexible energy storage devices. <i>RSC Advances</i> , 2014, 4, 6324.	3.6	38
16	Poling-free spinning process of manufacturing piezoelectric yarns for textile applications. <i>Materials and Design</i> , 2019, 179, 107889.	7.0	37
17	Robust and scalable three-dimensional spacer textile pressure sensor for human motion detection. <i>Smart Materials and Structures</i> , 2019, 28, 065019.	3.5	37
18	Surface Functionalization of Cotton and PC Fabrics Using SiO ₂ and ZnO Nanoparticles for Durable Flame Retardant Properties. <i>Coatings</i> , 2020, 10, 124.	2.6	37

#	ARTICLE	IF	CITATIONS
19	A knitted glove sensing system with compression strain for finger movements. <i>Smart Materials and Structures</i> , 2018, 27, 055016.	3.5	30
20	Wearable Strain Sensors with Aligned Macro Carbon Cracks Using a Two-Dimensional Triaxial-Braided Fabric Structure for Monitoring Human Health. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22926-22934.	8.0	30
21	Safety Evaluation of Absorbent Hygiene Pads: A Review on Assessment Framework and Test Methods. <i>Sustainability</i> , 2018, 10, 4146.	3.2	23
22	Dewetted gold nanoparticles on ZnO nanorods for three-dimensionally distributed plasmonic hot spots. <i>Scripta Materialia</i> , 2013, 69, 654-657.	5.2	14
23	A Knitted Sensing Glove for Human Hand Postures Pattern Recognition. <i>Sensors</i> , 2021, 21, 1364.	3.8	14
24	Optimized Dyeing Process for Enhancing the Functionalities of Spent Coffee Dyed Wool Fabrics Using a Facile Extraction Process. <i>Polymers</i> , 2019, 11, 574.	4.5	11
25	Design framework for a seamless smart glove using a digital knitting system. <i>Fashion and Textiles</i> , 2021, 8, .	2.4	7
26	Bio-Inspired Hierarchical Carbon Nanotube Yarn with Ester Bond Cross-Linkages towards High Conductivity for Multifunctional Applications. <i>Nanomaterials</i> , 2022, 12, 208.	4.1	7
27	Acoustic radiation force impulse imaging of biopsy-proven Kikuchi disease: initial experiences for evaluating feasibility in pediatric patients. <i>Ultrasonography</i> , 2019, 38, 58-66.	2.3	4
28	Knitted Data Glove System for Finger Motion Classification. <i>The Journal of Korea Robotics Society</i> , 2020, 15, 240-247.	0.4	3
29	Electrical properties of conductive fabrics for operating capacitive touch screen displays. <i>Textile Research Journal</i> , 2013, 83, 329-336.	2.2	2
30	Correction to: Design framework for a seamless smart glove using a digital knitting system. <i>Fashion and Textiles</i> , 2021, 8, .	2.4	0