Kyuyoung Kim

List of Publications by Year
in descending order

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26	1,104	567281 15	713466 21
papers	citations	h-index	g-index

28	28	28	1374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D printing of multiaxial force sensors using carbon nanotube (CNT)/thermoplastic polyurethane (TPU) filaments. Sensors and Actuators A: Physical, 2017, 263, 493-500.	4.1	232
2	Wearable, Ultrawide-Range, and Bending-Insensitive Pressure Sensor Based on Carbon Nanotube Network-Coated Porous Elastomer Sponges for Human Interface and Healthcare Devices. ACS Applied Materials & Interfaces, 2019, 11, 23639-23648.	8.0	155
3	Highly Sensitive and Wearable Liquid Metalâ€Based Pressure Sensor for Health Monitoring Applications: Integration of a 3Dâ€Printed Microbump Array with the Microchannel. Advanced Healthcare Materials, 2019, 8, e1900978.	7.6	116
4	Synergetic Effect of Porous Elastomer and Percolation of Carbon Nanotube Filler toward High Performance Capacitive Pressure Sensors. ACS Applied Materials & Interfaces, 2020, 12, 1698-1706.	8.0	113
5	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. Nature Communications, 2021, 12, 5008.	12.8	83
6	Ultrathin, Biocompatible, and Flexible Pressure Sensor with a Wide Pressure Range and Its Biomedical Application. ACS Sensors, 2020, 5, 481-489.	7.8	72
7	Wearable self-powered pressure sensor by integration of piezo-transmittance microporous elastomer with organic solar cell. Nano Energy, 2020, 74, 104749.	16.0	49
8	Microporous Elastomer Filter Coated with Metal Organic Frameworks for Improved Selectivity and Stability of Metal Oxide Gas Sensors. ACS Applied Materials & Interfaces, 2020, 12, 13338-13347.	8.0	39
9	High-Sensitivity and Low-Power Flexible Schottky Hydrogen Sensor Based on Silicon Nanomembrane. ACS Applied Materials & Interfaces, 2018, 10, 12870-12877.	8.0	38
10	Ultraâ€Wide Range Pressure Sensor Based on a Microstructured Conductive Nanocomposite for Wearable Workout Monitoring. Advanced Healthcare Materials, 2021, 10, e2001461.	7.6	33
11	Biopsy Needle Integrated with Electrical Impedance Sensing Microelectrode Array towards Real-time Needle Guidance and Tissue Discrimination. Scientific Reports, 2018, 8, 264.	3.3	32
12	Customizable, conformal, and stretchable 3D electronics via predistorted pattern generation and thermoforming. Science Advances, 2021, 7, eabj0694.	10.3	27
13	Microdome-Induced Strain Localization for Biaxial Strain Decoupling toward Stretchable and Wearable Human Motion Detection. Langmuir, 2020, 36, 8939-8946.	3.5	26
14	Heterogeneous Conductanceâ€Based Locally Shapeâ€Morphable Soft Electrothermal Actuator. Advanced Materials Technologies, 2020, 5, 1900997.	5.8	24
15	Sensitivity-Controllable Liquid-Metal-Based Pressure Sensor for Wearable Applications. ACS Applied Electronic Materials, 2021, 3, 4027-4036.	4.3	23
16	All-soft multiaxial force sensor based on liquid metal for electronic skin. Micro and Nano Systems Letters, 2021, 9, .	3.7	16
17	Handheld Laser Scanning Microscope Catheter for Real-Time and In vivo Confocal Microscopy using High Definition High Fame Rate Lissajous MEMS Mirror. Biomedical Optics Express, 2022, 13, 1497-1505.	2.9	6
18	Strain-Insensitive Soft Pressure Sensor for Health Monitoring Application Using 3D-Printed Microchannel Mold and Liquid Metal. , 2019, , .		3

#	Article	IF	Citations
19	Wide Range-Sensitive, Bending-Insensitive Pressure Detection and Application to Wearable Healthcare Device. , 2019, , .		2
20	Electrochemical Actuators: Heterogeneous Conductanceâ€Based Locally Shapeâ€Morphable Soft Electrothermal Actuator (Adv. Mater. Technol. 2/2020). Advanced Materials Technologies, 2020, 5, 2070013.	5.8	2
21	Fast Flexible Bottomâ€Gated Hydrogen Sensor Based on Silicon Nanomembrane. Advanced Materials Technologies, 2021, 6, 2000847.	5.8	2
22	Surface micro-structured, stretchable strain sensor towards biaxial sensitivity and performance enhancement. , 2017, , .		1
23	Wearable Soft Microfluidic Pressure Sensor Using 3D-Printed Mold for Health Monitoring. , 2019, , .		1
24	Development of thin film based flexible pressure sensor and biomedical application to real-time pressure monitoring during radiofrequency ablation. , 2018, , .		0
25	Stretchable fabric heater based on silver nanowire, carbon nanotube composites. , 2019, , .		0
26	Flexible Pressure Sensor Based on Porous Dielectric Elastomer Containing Conductive Filler. , 2019, , .		0