Daeshik Kang

List of Publications by Year in descending order

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DAESHIK KANC

#	Article	IF	CITATIONS
1	Ultrasensitive mechanical crack-based sensor inspired by the spider sensory system. Nature, 2014, 516, 222-226.	13.7	1,196
2	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	5.8	933
3	Dramatically Enhanced Mechanosensitivity and Signalâ€toâ€Noise Ratio of Nanoscale Crackâ€Based Sensors: Effect of Crack Depth. Advanced Materials, 2016, 28, 8130-8137.	11.1	276
4	Battery-free, wireless sensors for full-body pressure and temperature mapping. Science Translational Medicine, 2018, 10, .	5.8	247
5	Thin, Soft, Skinâ€Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono‣ampling of Sweat. Advanced Healthcare Materials, 2017, 6, 1601355.	3.9	209
6	Relation between blood pressure and pulse wave velocity for human arteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11144-11149.	3.3	193
7	Ultra-flexible perovskite solar cells with crumpling durability: toward a wearable power source. Energy and Environmental Science, 2019, 12, 3182-3191.	15.6	136
8	Soft, skin-mounted microfluidic systems for measuring secretory fluidic pressures generated at the surface of the skin by eccrine sweat glands. Lab on A Chip, 2017, 17, 2572-2580.	3.1	117
9	Soft Core/Shell Packages for Stretchable Electronics. Advanced Functional Materials, 2015, 25, 3698-3704.	7.8	116
10	Bioinspired Reversible Interlocker Using Regularly Arrayed High Aspectâ€Ratio Polymer Fibers. Advanced Materials, 2012, 24, 475-479.	11.1	92
11	Transparent ITO mechanical crack-based pressure and strain sensor. Journal of Materials Chemistry C, 2016, 4, 9947-9953.	2.7	87
12	Ultra-sensitive Pressure sensor based on guided straight mechanical cracks. Scientific Reports, 2017, 7, 40116.	1.6	86
13	Shapeâ€Controllable Microlens Arrays via Direct Transfer of Photocurable Polymer Droplets. Advanced Materials, 2012, 24, 1709-1715.	11.1	85
14	A semi-permanent and durable nanoscale-crack-based sensor by on-demand healing. Nanoscale, 2018, 10, 4354-4360.	2.8	52
15	Crack-based strain sensor with diverse metal films by inserting an inter-layer. RSC Advances, 2017, 7, 34810-34815.	1.7	51
16	Polyimide Encapsulation of Spider-Inspired Crack-Based Sensors for Durability Improvement. Applied Sciences (Switzerland), 2018, 8, 367.	1.3	41
17	Vital signal sensing and manipulation of a microscale organ with a multifunctional soft gripper. Science Robotics, 2021, 6, eabi6774.	9.9	38
18	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. ACS Nano, 2018, 12, 4164-4171.	7.3	36

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19	Strainâ€Visualization with Ultrasensitive Nanoscale Crackâ€Based Sensor Assembled with Hierarchical Thermochromic Membrane. Advanced Functional Materials, 2019, 29, 1903360.	7.8	36
20	Dry Transient Electronic Systems by Use of Materials that Sublime. Advanced Functional Materials, 2017, 27, 1606008.	7.8	34
21	Electroosmosis-Driven Hydrogel Actuators Using Hydrophobic/Hydrophilic Layer-By-Layer Assembly-Induced Crack Electrodes. ACS Nano, 2020, 14, 11906-11918.	7.3	31
22	Semipermanent Copper Nanowire Network with an Oxidationâ€Proof Encapsulation Layer. Advanced Materials Technologies, 2019, 4, 1800422.	3.0	29
23	Analysis of Preload-Dependent Reversible Mechanical Interlocking Using Beetle-Inspired Wing Locking Device. Langmuir, 2012, 28, 2181-2186.	1.6	27
24	Uniaxially crumpled graphene as a platform for guided myotube formation. Microsystems and Nanoengineering, 2019, 5, 53.	3.4	26
25	Foot Plantar Pressure Measurement System Using Highly Sensitive Crack-Based Sensor. Sensors, 2019, 19, 5504.	2.1	26
26	Actuating compact wearable augmented reality devices by multifunctional artificial muscle. Nature Communications, 2022, 13, .	5.8	24
27	Collapse of microfluidic channels/reservoirs in thin, soft epidermal devices. Extreme Mechanics Letters, 2017, 11, 18-23.	2.0	23
28	Artificial Slanted Nanocilia Array as a Mechanotransducer for Controlling Cell Polarity. ACS Nano, 2017, 11, 730-741.	7.3	22
29	Effect of Metal Thickness on the Sensitivity of Crack-Based Sensors. Sensors, 2018, 18, 2872.	2.1	22
30	Directional Clustering of Slanted Nanopillars by Elastocapillarity. Small, 2016, 12, 3764-3769.	5.2	15
31	Metal–elastomer bilayered switches by utilizing the superexponential behavior of crack widening. Journal of Materials Chemistry C, 2017, 5, 10920-10925.	2.7	15
32	Artificial stretchable armor for skin-interfaced wearable devices and soft robotics. Extreme Mechanics Letters, 2022, 50, 101537.	2.0	15
33	Design of Polarization-Independent and Wide-Angle Broadband Absorbers for Highly Efficient Reflective Structural Color Filters. Materials, 2019, 12, 1050.	1.3	13
34	Soft Directional Adhesion Gripper Fabricated by 3D Printing Process for Gripping Flexible Printed Circuit Boards. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 1151-1163.	2.7	13
35	FEP Encapsulated Crack-Based Sensor for Measurement in Moisture-Laden Environment. Materials, 2019, 12, 1516.	1.3	12
36	Nanoscale Sensors: Dramatically Enhanced Mechanosensitivity and Signalâ€ŧoâ€Noise Ratio of Nanoscale Crackâ€Based Sensors: Effect of Crack Depth (Adv. Mater. 37/2016). Advanced Materials, 2016, 28, 8068-8068.	11.1	10

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#	Article	IF	CITATIONS
37	Nature-inspired rollable electronics. NPG Asia Materials, 2019, 11, .	3.8	10
38	Design of a Sensitive Balloon Sensor for Safe Human–Robot Interaction. Sensors, 2021, 21, 2163.	2.1	8
39	Epidermal Systems: Soft Core/Shell Packages for Stretchable Electronics (Adv. Funct. Mater. 24/2015). Advanced Functional Materials, 2015, 25, 3697-3697.	7.8	6
40	Functional Encapsulating Structure for Wireless and Immediate Monitoring of the Fluid Penetration. Advanced Functional Materials, 2022, 32, .	7.8	6
41	Design of a Biologically Inspired Water-Walking Robot Powered by Artificial Muscle. Micromachines, 2022, 13, 627.	1.4	4
42	Microfluidic Networks: Thin, Soft, Skinâ€Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono‣ampling of Sweat (Adv. Healthcare Mater. 5/2017). Advanced Healthcare Materials, 2017, 6, .	3.9	3
43	Photocurable PUA (Poly Urethaneacrylat) cantilever integrated with ultra-high sensitive crack-based sensor. , 2017, , .		1

Transient Electronics: Dry Transient Electronic Systems by Use of Materials that Sublime (Adv. Funct.) Tj ETQq0 0 0, rgBT /Overlock 10 Tf