

Xiaohui Guo

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,680
citations

304602

22
h-index

289141

40
g-index

43
all docs

43
docs citations

43
times ranked

1959
citing authors

#	ARTICLE	IF	CITATIONS
1	Biologically Emulated Flexible Sensors With High Sensitivity and Low Hysteresis: Toward Electronic Skin to a Sense of Touch. <i>Small</i> , 2022, 18, .	5.2	54
2	Highly sensitive and flexible three-dimensional force tactile sensor based on inverted pyramidal structure. <i>Smart Materials and Structures</i> , 2022, 31, 095013.	1.8	17
3	High-sensitivity crack-based flexible strain sensor with dual hydrogen bond-assisted structure for monitoring tiny human motions and writing behavior. <i>Organic Electronics</i> , 2021, 88, 105977.	1.4	11
4	Biomimetic flexible strain sensor with high linearity using double conducting layers. <i>Composites Science and Technology</i> , 2021, 213, 108908.	3.8	29
5	Regenerated Silk Fibroin-Modified Soft Graphene Aerogels for Supercapacitive Stress Sensors. <i>Journal of the Electrochemical Society</i> , 2021, 168, 117511.	1.3	9
6	Highly stable pressure sensor based on carbonized melamine sponge using fully wrapped conductive path for flexible electronic skin. <i>Organic Electronics</i> , 2020, 76, 105447.	1.4	34
7	Static and Dynamic Human Arm/Hand Gesture Capturing and Recognition via Multiinformation Fusion of Flexible Strain Sensors. <i>IEEE Sensors Journal</i> , 2020, 20, 6450-6459.	2.4	47
8	Highly sensitive capacitive flexible 3D-force tactile sensors for robotic grasping and manipulation. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 445109.	1.3	35
9	Highly Flexible and Self-Healable Zinc-Ion Hybrid Supercapacitors Based on MWCNTs@RGO Fibers. <i>Advanced Materials Technologies</i> , 2020, 5, 2000268.	3.0	44
10	Integrated flexible piezoresistive pressure sensor based on CB/CNTs/SR composite with SR buffer layer for wide sensing range. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 21557-21568.	1.1	7
11	Highly sensitive and stretchable strain sensors based on serpentine-shaped composite films for flexible electronic skin applications. <i>Composites Science and Technology</i> , 2020, 197, 108215.	3.8	73
12	Superelastic and large-range pressure sensor with hollow-sphere architectures for wearable electronic skin. <i>Smart Materials and Structures</i> , 2020, 29, 045014.	1.8	12
13	Highly stretchable strain sensor with wide linear region via hydrogen bond-assisted dual-mode cooperative conductive network for gait detection. <i>Composites Science and Technology</i> , 2020, 191, 108070.	3.8	17
14	Highly sensitive pressure sensor based on structurally modified tissue paper for human physiological activity monitoring. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48973.	1.3	17
15	Real-time sitting behavior tracking and analysis for rectification of sitting habits by strain sensor-based flexible data bands. <i>Measurement Science and Technology</i> , 2020, 31, 055102.	1.4	11
16	MXene-Reduced Graphene Oxide Aerogel for Aqueous Zinc-Ion Hybrid Supercapacitor with Ultralong Cycle Life. <i>Advanced Electronic Materials</i> , 2019, 5, 1900537.	2.6	259
17	VMD-based denoising methods for surface electromyography signals. <i>Journal of Neural Engineering</i> , 2019, 16, 056017.	1.8	25
18	Rapid-Response, Low Detection Limit, and High-Sensitivity Capacitive Flexible Tactile Sensor Based on Three-Dimensional Porous Dielectric Layer for Wearable Electronic Skin. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40716-40725.	4.0	173

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19	A highly adhesive flexible strain sensor based on ultra-violet adhesive filled by graphene and carbon black for wearable monitoring. <i>Composites Science and Technology</i> , 2019, 182, 107771.	3.8	28
20	A low-voltage graphene/Ag-based phase transition-controlled force actuator. <i>Composites Part B: Engineering</i> , 2019, 174, 106912.	5.9	8
21	Highly stretchable, rapid-response strain sensor based on SWCNTs/CB nanocomposites coated on rubber/latex polymer for human motion tracking. <i>Sensor Review</i> , 2019, 39, 233-245.	1.0	13
22	Highly sensitive flexible strain sensor based on threadlike spandex substrate coating with conductive nanocomposites for wearable electronic skin. <i>Smart Materials and Structures</i> , 2019, 28, 035004.	1.8	46
23	Fully flexible strain sensor from core-spun elastic threads with integrated electrode and sensing cell based on conductive nanocomposite. <i>Composites Science and Technology</i> , 2018, 159, 42-49.	3.8	47
24	A dual-mode proximity sensor with combination of inductive and capacitive sensing units. <i>Sensor Review</i> , 2018, 38, 199-206.	1.0	14
25	Highly stretchable strain sensor based on polyurethane substrate using hydrogen bond-assisted laminated structure for monitoring of tiny human motions. <i>Smart Materials and Structures</i> , 2018, 27, 035013.	1.8	47
26	Electrical conductivity transformation mechanism of GNP/CB/SR nanocomposite foams. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45996.	1.3	9
27	High-resolution flexible temperature sensor based graphite-filled polyethylene oxide and polyvinylidene fluoride composites for body temperature monitoring. <i>Sensors and Actuators A: Physical</i> , 2018, 278, 1-10.	2.0	60
28	Effects of the filler size on the electrical percolation threshold of carbon black/carbon nanotube/polymer composites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46517.	1.3	20
29	Resistive pressure sensor for high-sensitivity e-skin based on porous sponge dip-coated CB/MWCNTs/SR conductive composites. <i>Materials Research Express</i> , 2018, 5, 065701.	0.8	23
30	A flexible three-axial capacitive tactile sensor with multilayered dielectric for artificial skin applications. <i>Microsystem Technologies</i> , 2017, 23, 1847-1852.	1.2	41
31	Flexible and wearable 2.45 GHz CPW-fed antenna using inkjet printing of silver nanoparticles on pet substrate. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 204-208.	0.9	42
32	A flexible dual-mode proximity sensor based on cooperative sensing for robot skin applications. <i>Review of Scientific Instruments</i> , 2017, 88, 085005.	0.6	23
33	Flexible and reversibly deformable radio-frequency antenna based on stretchable SWCNTs/PANI/Lycra conductive fabric. <i>Smart Materials and Structures</i> , 2017, 26, 105036.	1.8	25
34	Highly flexible fabric strain sensor based on graphene nanoplatelet/polyaniline nanocomposites for human gesture recognition. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45340.	1.3	75
35	Highly stretchable strain sensor based on SWCNTs/CB synergistic conductive network for wearable human-activity monitoring and recognition. <i>Smart Materials and Structures</i> , 2017, 26, 095017.	1.8	110
36	Materials and structure engineering in wearable monitor: Highly stretchable strain sensor developed by structured SWCNTs/CB networks. , 2017, , .		0

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37	Design and Research of Flexible Wearable Textile Antenna Based on GNPs/PANI/PDMS Composites for 2.45 GHz. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 476-480.	0.4	7
38	Fully Printed Flexible Coplanar Waveguide-Fed Antenna Based on Silver-Nanoparticles for Wearable Applications. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 433-437.	0.4	2
39	Flexible and Deformable Monopole Antenna Based on Silver Nanoparticles for Wearable Electronics. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 1632-1638.	0.4	9
40	A flexible touch-pressure sensor array with wireless transmission system for robotic skin. <i>Review of Scientific Instruments</i> , 2016, 87, 065007.	0.6	28
41	Capacitive wearable tactile sensor based on smart textile substrate with carbon black/silicone rubber composite dielectric. <i>Measurement Science and Technology</i> , 2016, 27, 045105.	1.4	114
42	Enhanced electrical conductivity and mechanical stability of flexible pressure-sensitive GNPs/CB/SR composites: Synergistic effects of GNPs and CB. <i>Journal of Materials Research</i> , 2015, 30, 3394-3402.	1.2	14