Xiaohui Guo

List of Publications by Year
in descending order

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	MXene–Reduced Graphene Oxide Aerogel for Aqueous Zinc–Ion Hybrid Supercapacitor with Ultralong Cycle Life. Advanced Electronic Materials, 2019, 5, 1900537.	2.6	259
2	Rapid-Response, Low Detection Limit, and High-Sensitivity Capacitive Flexible Tactile Sensor Based on Three-Dimensional Porous Dielectric Layer for Wearable Electronic Skin. ACS Applied Materials & Interfaces, 2019, 11, 40716-40725.	4.0	173
3	Capacitive wearable tactile sensor based on smart textile substrate with carbon black‰/silicone rubber composite dielectric. Measurement Science and Technology, 2016, 27, 045105.	1.4	114
4	Highly stretchable strain sensor based on SWCNTs/CB synergistic conductive network for wearable human-activity monitoring and recognition. Smart Materials and Structures, 2017, 26, 095017.	1.8	110
5	Highly flexible fabric strain sensor based on graphene nanoplatelet–polyaniline nanocomposites for human gesture recognition. Journal of Applied Polymer Science, 2017, 134, 45340.	1.3	75
6	Highly sensitive and stretchable strain sensors based on serpentine-shaped composite films for flexible electronic skin applications. Composites Science and Technology, 2020, 197, 108215.	3.8	73
7	High-resolution flexible temperature sensor based graphite-filled polyethylene oxide and polyvinylidene fluoride composites for body temperature monitoring. Sensors and Actuators A: Physical, 2018, 278, 1-10.	2.0	60
8	Biologically Emulated Flexible Sensors With High Sensitivity and Low Hysteresis: Toward Electronic Skin to a Sense of Touch. Small, 2022, 18, .	5.2	54
9	Fully flexible strain sensor from core-spun elastic threads with integrated electrode and sensing cell based on conductive nanocomposite. Composites Science and Technology, 2018, 159, 42-49.	3.8	47
10	Highly stretchable strain sensor based on polyurethane substrate using hydrogen bond-assisted laminated structure for monitoring of tiny human motions. Smart Materials and Structures, 2018, 27, 035013.	1.8	47
11	Static and Dynamic Human Arm/Hand Gesture Capturing and Recognition via Multiinformation Fusion of Flexible Strain Sensors. IEEE Sensors Journal, 2020, 20, 6450-6459.	2.4	47
12	Highly sensitive flexible strain sensor based on threadlike spandex substrate coating with conductive nanocomposites for wearable electronic skin. Smart Materials and Structures, 2019, 28, 035004.	1.8	46
13	Highly Flexible and Self–Healable Zinc–Ion Hybrid Supercapacitors Based on MWCNTs–RGO Fibers. Advanced Materials Technologies, 2020, 5, 2000268.	3.0	44
14	Flexible and wearable 2.45 GHz CPW–fed antenna using inkjet–printing of silver nanoparticles on pet substrate. Microwave and Optical Technology Letters, 2017, 59, 204-208.	0.9	42
15	A flexible three-axial capacitive tactile sensor with multilayered dielectric for artificial skin applications. Microsystem Technologies, 2017, 23, 1847-1852.	1.2	41
16	Highly sensitive capacitive flexible 3D-force tactile sensors for robotic grasping and manipulation. Journal Physics D: Applied Physics, 2020, 53, 445109.	1.3	35
17	Highly stable pressure sensor based on carbonized melamine sponge using fully wrapped conductive path for flexible electronic skin. Organic Electronics, 2020, 76, 105447.	1.4	34
18	Biomimetic flexible strain sensor with high linearity using double conducting layers. Composites Science and Technology, 2021, 213, 108908.	3.8	29

#	Article	IF	Citations
19	A flexible touch-pressure sensor array with wireless transmission system for robotic skin. Review of Scientific Instruments, 2016, 87, 065007.	0.6	28
20	A highly adhesive flexible strain sensor based on ultra-violet adhesive filled by graphene and carbon black for wearable monitoring. Composites Science and Technology, 2019, 182, 107771.	3.8	28
21	Flexible and reversibly deformable radio-frequency antenna based on stretchable SWCNTs/PANI/Lycra conductive fabric. Smart Materials and Structures, 2017, 26, 105036.	1.8	25
22	VMD-based denoising methods for surface electromyography signals. Journal of Neural Engineering, 2019, 16, 056017.	1.8	25
23	A flexible dual-mode proximity sensor based on cooperative sensing for robot skin applications. Review of Scientific Instruments, 2017, 88, 085005.	0.6	23
24	Resistive pressure sensor for high-sensitivity e-skin based on porous sponge dip-coated CB/MWCNTs/SR conductive composites. Materials Research Express, 2018, 5, 065701.	0.8	23
25	Effects of the filler size on the electrical percolation threshold of carbon black–carbon nanotube–polymer composites. Journal of Applied Polymer Science, 2018, 135, 46517.	1.3	20
26	Highly stretchable strain sensor with wide linear region via hydrogen bond-assisted dual-mode cooperative conductive network for gait detection. Composites Science and Technology, 2020, 191, 108070.	3.8	17
27	Highly sensitive pressure sensor based on structurally modified tissue paper for human physiological activity monitoring. Journal of Applied Polymer Science, 2020, 137, 48973.	1.3	17
28	Highly sensitive and flexible three-dimensional force tactile sensor based on inverted pyramidal structure. Smart Materials and Structures, 2022, 31, 095013.	1.8	17
29	Enhanced electrical conductivity and mechanical stability of flexible pressure-sensitive GNPs/CB/SR composites: Synergistic effects of GNPs and CB. Journal of Materials Research, 2015, 30, 3394-3402.	1.2	14
30	A dual-mode proximity sensor with combination of inductive and capacitive sensing units. Sensor Review, 2018, 38, 199-206.	1.0	14
31	Highly stretchable, rapid-response strain sensor based on SWCNTs/CB nanocomposites coated on rubber/latex polymer for human motion tracking. Sensor Review, 2019, 39, 233-245.	1.0	13
32	Superelastic and large-range pressure sensor with hollow-sphere architectures for wearable electronic skin. Smart Materials and Structures, 2020, 29, 045014.	1.8	12
33	Real-time sitting behavior tracking and analysis for rectification of sitting habits by strain sensor-based flexible data bands. Measurement Science and Technology, 2020, 31, 055102.	1.4	11
34	High-sensitivity crack-based flexible strain sensor with dual hydrogen bond-assisted structure for monitoring tiny human motions and writing behavior. Organic Electronics, 2021, 88, 105977.	1.4	11
35	Electrical conductivity transformation mechanism of GNPs/CB/SR nanocomposite foams. Journal of Applied Polymer Science, 2018, 135, 45996.	1.3	9
36	Flexible and Deformable Monopole Antenna Based on Silver Nanoparticles for Wearable Electronics. Nanoscience and Nanotechnology Letters, 2017, 9, 1632-1638.	0.4	9

#	Article	IF	Citations
37	Regenerated Silk Fibroin-Modified Soft Graphene Aerogels for Supercapacitive Stress Sensors. Journal of the Electrochemical Society, 2021, 168, 117511.	1.3	9
38	A low-voltage graphene/Ag-based phase transition-controlled force actuator. Composites Part B: Engineering, 2019, 174, 106912.	5.9	8
39	Integrated flexible piezoresistive pressure sensor based on CB/CNTs/SR composite with SR buffer layer for wide sensing range. Journal of Materials Science: Materials in Electronics, 2020, 31, 21557-21568.	1.1	7
40	Design and Research of Flexible Wearable Textile Antenna Based on GNPs/PANI/PDMS Composites for 2.45 GHz. Nanoscience and Nanotechnology Letters, 2017, 9, 476-480.	0.4	7
41	Fully Printed Flexible Coplanar Waveguide-Fed Antenna Based on Silver-Nanoparticles for Wearable Applications. Nanoscience and Nanotechnology Letters, 2017, 9, 433-437.	0.4	2
42	Materials and structure engineering in wearable monitor: Highly stretchable strain sensor developed by structured SWCNTs/CB networks. , 2017, , .		0