

Xiaodong Wu

List of Publications by Year in descending order

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17
papers

1,649
citations

567281

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888059

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times ranked

2215
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Compliant, Low-Cost, and Versatile Pressure-Sensing Platform Based on Microcrack-Designed Carbon Black@Polyurethane Sponge for Human-Machine Interfacing. <i>Advanced Functional Materials</i> , 2016, 26, 6246-6256.	14.9	481
2	Highly Sensitive, Stretchable, and Wash-Durable Strain Sensor Based on Ultrathin Conductive Layer@Polyurethane Yarn for Tiny Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9936-9945.	8.0	241
3	Tailoring percolating conductive networks of natural rubber composites for flexible strain sensors via a cellulose nanocrystal templated assembly. <i>Soft Matter</i> , 2016, 12, 845-852.	2.7	151
4	Cellulose nanowhisker modulated 3D hierarchical conductive structure of carbon black/natural rubber nanocomposites for liquid and strain sensing application. <i>Composites Science and Technology</i> , 2016, 124, 44-51.	7.8	118
5	Conductive natural rubber/carbon black nanocomposites via cellulose nanowhisker templated assembly: tailored hierarchical structure leading to synergistic property enhancements. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13317-13323.	10.3	104
6	Cellulose nanocrystals mediated assembly of graphene in rubber composites for chemical sensing applications. <i>Carbohydrate Polymers</i> , 2016, 140, 88-95.	10.2	94
7	Biotemplate Synthesis of Polyaniline@Cellulose Nanowhiskers/Natural Rubber Nanocomposites with 3D Hierarchical Multiscale Structure and Improved Electrical Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21078-21085.	8.0	79
8	A potentiometric mechanotransduction mechanism for novel electronic skins. <i>Science Advances</i> , 2020, 6, eaba1062.	10.3	68
9	Dialysis-Free and in Situ Doping Synthesis of Polypyrrole@Cellulose Nanowhiskers Nanohybrid for Preparation of Conductive Nanocomposites with Enhanced Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 675-682.	6.7	55
10	Large-Area Fabrication of High-Performance Flexible and Wearable Pressure Sensors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901310.	5.1	53
11	Self-stabilized polyaniline@graphene aqueous colloids for the construction of assembled conductive network in rubber matrix and its chemical sensing application. <i>Composites Science and Technology</i> , 2016, 125, 1-8.	7.8	43
12	A Potentiometric Electronic Skin for Thermosensation and Mechanosensation. <i>Advanced Functional Materials</i> , 2021, 31, 2010824.	14.9	42
13	A Single-Mode, Self-Adapting, and Self-Powered Mechanoreceptor Based on a Potentiometric-Triboelectric Hybridized Sensing Mechanism for Resolving Complex Stimuli. <i>Advanced Materials</i> , 2020, 32, e2005970.	21.0	41
14	New Scalable Approach toward Shape Memory Polymer Composites via Spring-Buckle Microstructure Design. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13657-13665.	8.0	32
15	Breathable, Antibacterial, and Biocompatible Collagen Fiber Network Decorated with Zwitterionic Silver Nanoparticles for Plantar Pressure Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21645-21656.	8.0	20
16	Tuning Strain Sensor Performance via Programmed Thin-Film Crack Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38105-38113.	8.0	16
17	Hierarchically structured composites for ultrafast liquid sensing and smart leak-plugging. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16198-16205.	2.8	11