

Lan Liu

List of Publications by Citations

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48
papers

2,084
citations

22
h-index

45
g-index

49
ext. papers

2,499
ext. citations

6.9
avg, IF

5.17
L-index

#	Paper	IF	Citations
48	Ultrasensitive Cracking-Assisted Strain Sensors Based on Silver Nanowires/Graphene Hybrid Particles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25563-70	9.5	177
47	A highly stretchable strain sensor based on a graphene/silver nanoparticle synergic conductive network and a sandwich structure. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4304-4311	7.1	171
46	A highly stretchable and sensitive strain sensor based on graphene-elastomer composites with a novel double-interconnected network. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6345-6352	7.1	170
45	Multiscale Wrinkled Microstructures for Piezoresistive Fibers. <i>Advanced Functional Materials</i> , 2016 , 26, 5078-5085	15.6	129
44	A compliant, self-adhesive and self-healing wearable hydrogel as epidermal strain sensor. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4183-4190	7.1	117
43	Cu@Ag core-shell nanowires for electronic skin with a petal molded microstructure. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9594-9602	7.1	116
42	Silver nanowires coated on cotton for flexible pressure sensors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 935-943	7.1	115
41	Channel Crack-Designed Gold@PU Sponge for Highly Elastic Piezoresistive Sensor with Excellent Detectability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20098-20105	9.5	105
40	Highly Stable and Sensitive Paper-Based Bending Sensor Using Silver Nanowires/Layered Double Hydroxides Hybrids. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14182-91	9.5	99
39	Graphene-Elastomer Composites with Segregated Nanostructured Network for Liquid and Strain Sensing Application. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24143-51	9.5	97
38	Flexible piezoresistive sensors based on dynamic bridging effect of silver nanowires toward graphene. <i>Carbon</i> , 2017 , 113, 395-403	10.4	91
37	Transparent and Waterproof Ionic Liquid-Based Fibers for Highly Durable Multifunctional Sensors and Strain-Insensitive Stretchable Conductors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4305-4314	9.5	60
36	Liquid metal fiber composed of a tubular channel as a high-performance strain sensor. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12483-12491	7.1	58
35	Preparation, structure and properties of nitrile-butadiene rubber-organoclay nanocomposites by reactive mixing intercalation method. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1905-1913	2.9	52
34	Highly stretchable fiber-shaped e-textiles for strain/pressure sensing, full-range human motions detection, health monitoring, and 2D force mapping. <i>Journal of Materials Science</i> , 2018 , 53, 2995-3005	4.3	51
33	A new approach to construct three dimensional segregated graphene structures in rubber composites for enhanced conductive, mechanical and barrier properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2353-2358	7.1	47
32	Ultrasensitive and Highly Stretchable Multifunctional Strain Sensors with Timbre-Recognition Ability Based on Vertical Graphene. <i>Advanced Functional Materials</i> , 2019 , 29, 1907151	15.6	31

31	Liquid exfoliation of ZnAl layered double hydroxide using NaOH/urea aqueous solution at low temperature. <i>RSC Advances</i> , 2014 , 4, 18044	3.7	30
30	A Novel Conductive Core-Shell Particle Based on Liquid Metal for Fabricating Real-Time Self-Repairing Flexible Circuits. <i>Advanced Functional Materials</i> , 2020 , 30, 1910524	15.6	29
29	Graphene nanosheets decorated with ZnO nanoparticles: facile synthesis and promising application for enhancing the mechanical and gas barrier properties of rubber nanocomposites. <i>RSC Advances</i> , 2015 , 5, 57771-57780	3.7	28
28	A Novel Strategy for Preparing Stretchable and Reliable Biphasic Liquid Metal. <i>Advanced Functional Materials</i> , 2019 , 29, 1903840	15.6	28
27	Bio-based graphene/sodium alginate aerogels for strain sensors. <i>RSC Advances</i> , 2016 , 6, 64056-64064	3.7	26
26	Interface design for enhancing the wettability of liquid metal to polyacrylate for intrinsically soft electronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6755-6763	7.1	21
25	Effect of 3-propionylthio-1-propyltrimethoxysilane on structure, mechanical, and dynamic mechanical properties of NR/silica composites. <i>Polymer Composites</i> , 2009 , 30, 955-961	3	20
24	Self-Healing, Robust, and Stretchable Electrode by Direct Printing on Dynamic Polyurea Surface at Slightly Elevated Temperature. <i>Advanced Functional Materials</i> , 2021 , 31, 2102225	15.6	20
23	Nanofluidic energy conversion and molecular separation through highly stable clay-based membranes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14089-14096	13	19
22	A Biomimetic Interface with High Adhesion, Tailorable Modulus for On-Skin Sensors, and Low-Power Actuators. <i>Chemistry of Materials</i> , 2019 , 31, 8708-8716	9.6	19
21	Hybrid of silver nanowire and pristine-graphene by liquid-phase exfoliation for synergetic effects on electrical conductive composites. <i>RSC Advances</i> , 2014 , 4, 41876-41885	3.7	19
20	Synthesis and characterization of 3-benzothiazolthio-1-propyltriethoxysilane and its reinforcement for styrene-butadiene rubber/silica composites. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1967-1973 ²⁻⁹	2.9	16
19	The use of zinc dimethacrylate functionalized graphene as a reinforcement in rubber composites. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 423-431	3.2	15
18	Topologically Enhanced Dual-Network Hydrogels with Rapid Recovery for Low-Hysteresis, Self-Adhesive Epidemic Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12531-12540	9.5	15
17	Morphology and performance of styrene butadiene rubber filled with modified graphite nanoplatelet and carbon black. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 830-840	3.2	11
16	Hybrid modified rubber powder and its application in cement mortar. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010 , 25, 1033-1037	1	11
15	Influence of graphene functionalized with zinc dimethacrylate on the mechanical and thermal properties of natural rubber nanocomposites. <i>Polymer Composites</i> , 2015 , 36, 1775-1785	3	9
14	Structure and flammability properties of NR-organoclay nanocomposites. <i>Polymer Composites</i> , 2009 , 30, 107-110	3	9

13	Advanced stretchable characteristic of liquid metal for fabricating extremely stable electronics. <i>Materials Letters</i> , 2019 , 235, 133-136	3.3	9
12	Low voltage driven electro-active shape memory composites with 3D AgNWs conductive networks. <i>Materials Letters</i> , 2018 , 220, 297-300	3.3	7
11	Insight into vulcanization mechanism of novel binary accelerators for natural rubber. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 1077-1085	3.5	7
10	A multidimensional hierarchical structure designed for lateral strain-isolated ultrasensitive pressure sensing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 922-929	7.1	7
9	Facile, Low-Cost, UV-Curing Approach to Prepare Highly Conductive Composites for Flexible Electronics Applications. <i>Journal of Electronic Materials</i> , 2016 , 45, 3603-3611	1.9	5
8	Super Stretchable and Compressible Hydrogels Inspired by Hook-and-Loop Fasteners. <i>Langmuir</i> , 2021 , 37, 7760-7770	4	4
7	Advances in Natural Rubber/Montmorillonite Nanocomposites 2009 , 415-433		3
6	Study on Crystallization Behavior of Solid-Phase Graft Copolymers of Polypropylene with Maleic Anhydride and Methyl Methacrylate. <i>Polymer-Plastics Technology and Engineering</i> , 2008 , 47, 996-1001		3
5	Interfacial Engineering for Highly Stable and Stretchable Electrodes Enabled by Printing/Writing Surface-Embedded Silver and Its Selective Alloying with Liquid Metals. <i>Advanced Materials Interfaces</i> , 2102121	4.6	3
4	Styrene butadiene rubber/carbon black composites modified by imidazole derivatives. <i>International Journal of Polymer Analysis and Characterization</i> , 2016 , 21, 447-457	1.7	2
3	High performance fiber-shaped supercapacitors based on core-shell fiber electrodes with adjustable surface wrinkles and robust interfaces. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16852-16859	13	2
2	Piezoresistive fibers with record high sensitivity via the synergic optimization of porous microstructure and elastic modulus. <i>Chemical Engineering Journal</i> , 2022 , 441, 136046	14.7	1
1	High performance and illumination stable In ₂ O ₃ nanofibers-based field effect transistors by doping praseodymium. <i>Surfaces and Interfaces</i> , 2022 , 29, 101781	4.1	0