Hu Liu

List of Publications by Year
in descending order

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38 papers	6,791 citations	172207 29 h-index	315357 38 g-index
39 all docs	39 docs citations	39 times ranked	7172 citing authors

#	Article	IF	Citations
1	Lightweight conductive graphene/thermoplastic polyurethane foams with ultrahigh compressibility for piezoresistive sensing. Journal of Materials Chemistry C, 2017, 5, 73-83.	2.7	576
2	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. Journal of Materials Chemistry C, 2018, 6, 12121-12141.	2.7	522
3	Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. Journal of Materials Chemistry C, 2016, 4, 157-166.	2.7	484
4	Electrically conductive strain sensing polyurethane nanocomposites with synergistic carbon nanotubes and graphene bifillers. Nanoscale, 2016, 8, 12977-12989.	2.8	464
5	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe3+ ions and tetracyclines. Journal of Colloid and Interface Science, 2019, 539, 332-341.	5.0	424
6	Significantly enhanced and precisely modeled thermal conductivity in polyimide nanocomposites with chemically modified graphene via in situ polymerization and electrospinning-hot press technology. Journal of Materials Chemistry C, 2018, 6, 3004-3015.	2.7	360
7	Durably Antibacterial and Bacterially Antiadhesive Cotton Fabrics Coated by Cationic Fluorinated Polymers. ACS Applied Materials & Interfaces, 2018, 10, 6124-6136.	4.0	359
8	Lightweight, Superelastic, and Hydrophobic Polyimide Nanofiber /MXene Composite Aerogel for Wearable Piezoresistive Sensor and Oil/Water Separation Applications. Advanced Functional Materials, 2021, 31, 2008006.	7.8	340
9	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. ACS Applied Materials & Interfaces, 2019, 11, 10922-10932.	4.0	331
10	Reinforced carbon fiber laminates with oriented carbon nanotube epoxy nanocomposites: Magnetic field assisted alignment and cryogenic temperature mechanical properties. Journal of Colloid and Interface Science, 2018, 517, 40-51.	5.0	266
11	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. ACS Applied Materials & Interfaces, 2019, 11, 42594-42606.	4.0	255
12	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. ACS Applied Materials & Interfaces, 2019, 11, 21904-21914.	4.0	228
13	Flexible and Lightweight Pressure Sensor Based on Carbon Nanotube/Thermoplastic Polyurethane-Aligned Conductive Foam with Superior Compressibility and Stability. ACS Applied Materials & Interfaces, 2017, 9, 42266-42277.	4.0	225
14	Organic vapor sensing behaviors of conductive thermoplastic polyurethaneâ€“graphene nanocomposites. Journal of Materials Chemistry C, 2016, 4, 4459-4469.	2.7	198
15	Triple layered coreâ€“shell ZVI@carbon@polyaniline composite enhanced electron utilization in Cr(<scp>vi</scp>) reduction. Journal of Materials Chemistry A, 2018, 6, 11119-11128.	5.2	167
16	An overview of metamaterials and their achievements in wireless power transfer. Journal of Materials Chemistry C, 2018, 6, 2925-2943.	2.7	166
17	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. Journal of Materials Chemistry A, 2018, 6, 13062-13074.	5.2	145
18	Silica microsphere templated self-assembly of a three-dimensional carbon network with stable radio-frequency negative permittivity and low dielectric loss. Journal of Materials Chemistry C, 2018, 6, 5239-5249.	2.7	143

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19	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating â€œBranch-Likeâ€•Flame-Retardant Functionalized Graphene. ACS Applied Materials & Interfaces, 2018, 10, 21628-21641.	4.0	142
20	Facile Fabrication of Superhydrophobic and Eco-Friendly Poly(lactic acid) Foam for Oilâ€“Water Separation via Skin Peeling. ACS Applied Materials & Interfaces, 2019, 11, 14362-14367.	4.0	132
21	Facile Preparation of 1T/2Hâ€Mo(S_{1â€x}Se_x)₂ Nanoparticles for Boosting Hydrogen Evolution Reaction. ChemCatChem, 2019, 11, 2217-2222.	1.8	124
22	Piezoresistive behavior of porous carbon nanotube-thermoplastic polyurethane conductive nanocomposites with ultrahigh compressibility. Applied Physics Letters, 2016, 108, .	1.5	102
23	Friction and Wear of MoO₃/Graphene Oxide Modified Glass Fiber Reinforced Epoxy Nanocomposites. Macromolecular Materials and Engineering, 2019, 304, 1900166.	1.7	87
24	Controllable Crossâ€Linking Anion Exchange Membranes with Excellent Mechanical and Thermal Properties. Macromolecular Materials and Engineering, 2018, 303, 1700462.	1.7	85
25	Ultrastretchable Multilayered Fiber with a Hollow-Monolith Structure for High-Performance Strain Sensor. ACS Applied Materials & Interfaces, 2018, 10, 34592-34603.	4.0	81
26	Microstructure and Mechanical Properties of TiC-Reinforced 316L Stainless Steel Composites Fabricated Using Selective Laser Melting. Metals, 2019, 9, 267.	1.0	71
27	Improved extraction of cobalt and lithium by reductive acid from spent lithium-ion batteries via mechanical activation process. Journal of Materials Science, 2018, 53, 13790-13800.	1.7	62
28	Enhanced Solid Particle Erosion Properties of Thermoplastic Polyurethaneâ€Carbon Nanotube Nanocomposites. Macromolecular Materials and Engineering, 2019, 304, 1900010.	1.7	53
29	Weakly negative permittivity and low frequency dispersive behavior in graphene/epoxy metacomposites. Journal of Materials Science: Materials in Electronics, 2019, 30, 14745-14754.	1.1	40
30	Positive Temperature Coefficient (PTC) Evolution of Segregated Structural Conductive Polypropylene Nanocomposites with Visually Traceable Carbon Black Conductive Network. Advanced Materials Interfaces, 2017, 4, 1700265.	1.9	30
31	Overview of the Experimental Trends in Waterâ€Assisted Injection Molding. Macromolecular Materials and Engineering, 2018, 303, 1800035.	1.7	26
32	Direct Observation of Stable Negative Capacitance in SrTiO₃@BaTiO₃ Heterostructure. Advanced Electronic Materials, 2020, 6, 1901005.	2.6	26
33	Polystyrene Foam with High Cell Density and Small Cell Size by Compressionâ€Injection Molding and Core Back Foaming Technique: Evolution of Cells in Cavity. Macromolecular Materials and Engineering, 2018, 303, 1800110.	1.7	24
34	Naked eye colorimetric multifunctional sensing of nitrobenzene, Cr(VI) and Fe(III) with a new green emission Ag6S6 multi-metal-cluster. Advanced Composites and Hybrid Materials, 2018, 1, 785-796.	9.9	21
35	Hydrothermally Synthesized Li₄Ti₅O₁₂ Nanotubes Anode Material with Enhanced Li-Ion Battery Performances. Journal of Nanoscience and Nanotechnology, 2019, 19, 7387-7391.	0.9	11
36	Tunable temperature-resistivity behaviors of carbon black/polyamide 6 /high-density polyethylene composites with conductive electrospun PA6 fibrous network. Journal of Composite Materials, 2019, 53, 1897-1906.	1.2	8

#	Article	IF	Citations
37	Narrow pH response multilayer films with controlled release of ibuprofen on magnesium alloy. Materials Science and Engineering C, 2021, 118, 111414.	3.8	7
38	Conductive Nanocomposites: Positive Temperature Coefficient (PTC) Evolution of Segregated Structural Conductive Polypropylene Nanocomposites with Visually Traceable Carbon Black Conductive Network (Adv. Mater. Interfaces 17/2017). Advanced Materials Interfaces, 2017, 4, .	1.9	0