Li-hua Shao

List of Publications by Year
in descending order

30	682	636246 13	537477 26
papers	citations	h-index	g-index

32	32	32	1267
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	All-in-one cellulose based hybrid tribo/piezoelectric nanogenerator. Nano Research, 2019, 12, 1831-1835.	10.6	97
2	4D printing composite with electrically controlled local deformation. Extreme Mechanics Letters, 2020, 39, 100793.	4.2	68
3	Uniform yolkâ€“shell structured Siâ€“C nanoparticles as a high performance anode material for the Li-ion battery. Chemical Communications, 2020, 56, 364-367.	4.2	60
4	Piezoelectric Gold: Strong Chargeâ€Load Response in a Metalâ€Based Hybrid Nanomaterial. Advanced Functional Materials, 2016, 26, 5174-5181.	16.5	52
5	Electrocapillary maximum and potential of zero charge of carbon aerogel. Physical Chemistry Chemical Physics, 2010, 12, 7580.	2.9	45
6	A flexoelectricity-enabled ultrahigh piezoelectric effect of a polymeric composite foam as a strain-gradient electric generator. Science Advances, 2023, 9, .	10.9	45
7	Ultrahigh flexoelectric effect of 3D interconnected porous polymers: modelling and verification. Journal of the Mechanics and Physics of Solids, 2021, 151, 104396.	4.9	41
8	Electrically Tunable Nanoporous Carbon Hybrid Actuators. Advanced Functional Materials, 2012, 22, 3029-3034.	16.5	39
9	Hierarchical nested-network porous copper fabricated by one-step dealloying for glucose sensing. Journal of Alloys and Compounds, 2016, 681, 109-114.	5.7	31
10	Electrochemical Modulation of Photonic Metamaterials. Advanced Materials, 2010, 22, 5173-5177.	24.3	28
11	Transparent and electrically tunable electromagnetic wave absorbing metamaterial. Applied Physics Letters, 2022, 120, .	3.2	21
12	Nanoporous-Gold-Based Hybrid Cantilevered Actuator Dealloyed and Driven by A Modified Rotary Triboelectric Nanogenerator. Scientific Reports, 2016, 6, 24092.	3.4	19
13	The Mechanical Characteristics of Monolithic Nanoporous Copper and Its Composites. Advanced Engineering Materials, 2018, 20, 1800574.	3.5	15
14	Atomic understanding of the strain-induced electrocatalysis from DFT calculation: progress and perspective. Physical Chemistry Chemical Physics, 2023, 25, 12565-12586.	2.9	15
15	A Bioinspired Functionalization of Polypropylene Separator for Lithium-Sulfur Battery. Polymers, 2019, 11, 728.	4.6	14
16	Dual-Stimuli Responsive Carbon Nanotube Sponge-PDMS Amphibious Actuator. Nanomaterials, 2019, 9, 1704.	4.2	13
17	The free-standing nanoporous palladium for hydrogen isotope storage. Journal of Alloys and Compounds, 2021, 854, 157062.	5.7	12
18	Nanostructured MWCNT/Polypyrrole Actuators with Anisotropic Strain Response. Advanced Engineering Materials, 2016, 18, 597-607.	3.5	11

#	Article	IF	Citations
19	Soft Robot Based on Hyperelastic Buckling Controlled by Discontinuous Magnetic Field. Journal of Mechanisms and Robotics, 2022, 14, .	2.3	10
20	Monitoring the length change of Ni@C composite electrodes during charging/discharging processes. Electrochemistry Communications, 2019, 103, 94-99.	4.8	9
21	Effect of Thermal Conductivity on Enhanced Evaporation of Water Droplets from Heated Grapheneâ€“PDMS Composite Surfaces. Langmuir, 2019, 35, 6916-6921.	3.7	9
22	Modulating the morphology of ZnO nanorod arrays on SiO x -mask-patterned GaN template. Materials Letters, 2017, 195, 22-25.	2.7	7
23	Hierarchical Nanoporous Carbon Templated and Catalyzed by the Bicontinuous Nanoporous Copper for High Performance Electrochemical Capacitors. ChemistrySelect, 2019, 4, 6437-6444.	1.6	7
24	3D hierarchical macro/mesoporous TiO₂ with nanoporous or nanotubular structures and their core/shell composites achieved by anodization. CrystEngComm, 2017, 19, 2509-2516.	2.4	5
25	Investigation of the distinct optical property of nanoporous gold. Results in Physics, 2019, 15, 102645.	4.2	4
26	Ultrafast Dynamics and Energy Relaxation for Nanoporous Gold Materials: Lower Porosity and Faster Energy Exchange. Journal of Physical Chemistry C, 2020, 124, 6356-6363.	3.3	3
27	Atomistic Modeling of the Effect of Temperature on Interfacial Properties of 3D-Printed Continuous Carbon Fiber-Reinforced Polyamide 6 Composite: From Processing to Loading. ACS Applied Materials & Interfaces, 2023, 15, 56454-56463.	8.3	1
28	Theoretical model and experimental verification of flexoelectric response of porous plate under impact load and its application as passive and protective impact sensor. International Journal of Impact Engineering, 2024, 187, 104929.	5.0	1
29	A Facile Route to Synthesize Micron Size Nearly Spherical Mesoporous Silica Particles. ChemistrySelect, 2019, 4, 2603-2606.	1.6	0
30	A theoretical model to determine solid surface tension through droplet on film configuration and experimental verification. Journal of the Mechanics and Physics of Solids, 2024, 183, 105504.	4.9	0