

Li-hua Shao

List of Publications by Year in descending order

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papers

682
citations

636246

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32
all docs

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docs citations

32
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	A theoretical model to determine solid surface tension through droplet on film configuration and experimental verification. <i>Journal of the Mechanics and Physics of Solids</i> , 2024, 183, 105504.	4.9	0
2	Theoretical model and experimental verification of flexoelectric response of porous plate under impact load and its application as passive and protective impact sensor. <i>International Journal of Impact Engineering</i> , 2024, 187, 104929.	5.0	1
3	A flexoelectricity-enabled ultrahigh piezoelectric effect of a polymeric composite foam as a strain-gradient electric generator. <i>Science Advances</i> , 2023, 9, .	10.9	45
4	Atomic understanding of the strain-induced electrocatalysis from DFT calculation: progress and perspective. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 12565-12586.	2.9	15
5	Atomistic Modeling of the Effect of Temperature on Interfacial Properties of 3D-Printed Continuous Carbon Fiber-Reinforced Polyamide 6 Composite: From Processing to Loading. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 56454-56463.	8.3	1
6	Soft Robot Based on Hyperelastic Buckling Controlled by Discontinuous Magnetic Field. <i>Journal of Mechanisms and Robotics</i> , 2022, 14, .	2.3	10
7	Transparent and electrically tunable electromagnetic wave absorbing metamaterial. <i>Applied Physics Letters</i> , 2022, 120, .	3.2	21
8	The free-standing nanoporous palladium for hydrogen isotope storage. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157062.	5.7	12
9	Ultrahigh flexoelectric effect of 3D interconnected porous polymers: modelling and verification. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 151, 104396.	4.9	41
10	Uniform yolk-shell structured Si@C nanoparticles as a high performance anode material for the Li-ion battery. <i>Chemical Communications</i> , 2020, 56, 364-367.	4.2	60
11	4D printing composite with electrically controlled local deformation. <i>Extreme Mechanics Letters</i> , 2020, 39, 100793.	4.2	68
12	Ultrafast Dynamics and Energy Relaxation for Nanoporous Gold Materials: Lower Porosity and Faster Energy Exchange. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6356-6363.	3.3	3
13	Investigation of the distinct optical property of nanoporous gold. <i>Results in Physics</i> , 2019, 15, 102645.	4.2	4
14	All-in-one cellulose based hybrid tribo/piezoelectric nanogenerator. <i>Nano Research</i> , 2019, 12, 1831-1835.	10.6	97
15	Hierarchical Nanoporous Carbon Templated and Catalyzed by the Bicontinuous Nanoporous Copper for High Performance Electrochemical Capacitors. <i>ChemistrySelect</i> , 2019, 4, 6437-6444.	1.6	7
16	Monitoring the length change of Ni@C composite electrodes during charging/discharging processes. <i>Electrochemistry Communications</i> , 2019, 103, 94-99.	4.8	9
17	A Bioinspired Functionalization of Polypropylene Separator for Lithium-Sulfur Battery. <i>Polymers</i> , 2019, 11, 728.	4.6	14
18	Effect of Thermal Conductivity on Enhanced Evaporation of Water Droplets from Heated Graphene@PDMS Composite Surfaces. <i>Langmuir</i> , 2019, 35, 6916-6921.	3.7	9

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19	A Facile Route to Synthesize Micron Size Nearly Spherical Mesoporous Silica Particles. <i>ChemistrySelect</i> , 2019, 4, 2603-2606.	1.6	0
20	Dual-Stimuli Responsive Carbon Nanotube Sponge-PDMS Amphibious Actuator. <i>Nanomaterials</i> , 2019, 9, 1704.	4.2	13
21	The Mechanical Characteristics of Monolithic Nanoporous Copper and Its Composites. <i>Advanced Engineering Materials</i> , 2018, 20, 1800574.	3.5	15
22	Modulating the morphology of ZnO nanorod arrays on SiO ₂ -mask-patterned GaN template. <i>Materials Letters</i> , 2017, 195, 22-25.	2.7	7
23	3D hierarchical macro/mesoporous TiO ₂ with nanoporous or nanotubular structures and their core/shell composites achieved by anodization. <i>CrystEngComm</i> , 2017, 19, 2509-2516.	2.4	5
24	Piezoelectric Gold: Strong Charge-Load Response in a Metal-Based Hybrid Nanomaterial. <i>Advanced Functional Materials</i> , 2016, 26, 5174-5181.	16.5	52
25	Nanoporous-Gold-Based Hybrid Cantilevered Actuator Dealloyed and Driven by A Modified Rotary Triboelectric Nanogenerator. <i>Scientific Reports</i> , 2016, 6, 24092.	3.4	19
26	Hierarchical nested-network porous copper fabricated by one-step dealloying for glucose sensing. <i>Journal of Alloys and Compounds</i> , 2016, 681, 109-114.	5.7	31
27	Nanostructured MWCNT/Polypyrrole Actuators with Anisotropic Strain Response. <i>Advanced Engineering Materials</i> , 2016, 18, 597-607.	3.5	11
28	Electrically Tunable Nanoporous Carbon Hybrid Actuators. <i>Advanced Functional Materials</i> , 2012, 22, 3029-3034.	16.5	39
29	Electrochemical Modulation of Photonic Metamaterials. <i>Advanced Materials</i> , 2010, 22, 5173-5177.	24.3	28
30	Electrocapillary maximum and potential of zero charge of carbon aerogel. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7580.	2.9	45