

Zhen Shi

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

508
citations

687363

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677142

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic insights into hydrophobicity of cerium oxide: Effects of crystal orientation and lattice constant. <i>Journal of Materials Science and Technology</i> , 2022, 109, 20-29.	10.7	10
2	Fabrication of cerium oxide films with thickness and hydrophobicity gradients. <i>Surface and Coatings Technology</i> , 2022, 430, 127985.	4.8	3
3	Humidity Sensing Ceria Thin-Films. <i>Nanomaterials</i> , 2022, 12, 521.	4.1	2
4	Facile Preparation of Robust Superhydrophobic/Superoleophilic TiO ₂ -Decorated Polyvinyl Alcohol Sponge for Efficient Oil/Water Separation. <i>ACS Omega</i> , 2022, 7, 7084-7095.	3.5	28
5	Mussel-Inspired Durable TiO ₂ /PDA-Based Superhydrophobic Paper with Excellent Self-Cleaning, High Chemical Stability, and Efficient Oil/Water Separation Properties. <i>Langmuir</i> , 2022, 38, 6086-6098.	3.5	35
6	Mussel-inspired durable superhydrophobic/superoleophilic MOF-PU sponge with high chemical stability, efficient oil/water separation and excellent anti-icing properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129142.	4.7	30
7	Response to comment on "Thickness-dependent morphology, microstructure, adsorption and surface free energy of sputtered CeO ₂ films". <i>Ceramics International</i> , 2021, 47, 4363-4364.	4.8	0
8	Concurrently Improved Breakdown Strength and Storage Energy Capacitance in the Core-Shell-Structured Aromatic Polythiourea@BaTiO ₃ Polymer Nanocomposites Induced by the Nature of Interfacial Polarization and Crystallization. <i>ACS Applied Energy Materials</i> , 2021, 4, 470-481.	5.1	14
9	Preparation of transparent and hydrophobic cerium oxide films with stable mechanical properties by magnetron sputtering. <i>Vacuum</i> , 2021, 184, 109888.	3.5	13
10	Nitrate fluxes induced by turbulent mixing in dipole eddies in an oligotrophic ocean. <i>Limnology and Oceanography</i> , 2021, 66, 2842-2854.	3.1	4
11	Photosynthesis-radiance Response in the Eddy Dipole in the Western South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016986.	2.6	6
12	Spontaneous Adsorption-Induced <i>Salvinia</i> -like Micropillars with High Adhesion. <i>Langmuir</i> , 2021, 37, 6728-6735.	3.5	17
13	Environmental regulations on bacterial abundance in the South China Sea inferred from regression models. <i>Science of the Total Environment</i> , 2021, 774, 146315.	8.0	2
14	Photoredox Catalysis for the Fabrication of Water-Repellent Surfaces with Application for Oil/Water Separation. <i>Langmuir</i> , 2021, 37, 11592-11602.	3.5	0
15	Oxygen-sulfur Co-substitutional Fe@C nanocapsules for improving microwave absorption properties. <i>Science Bulletin</i> , 2020, 65, 623-630.	9.0	100
16	Accelerated wetting transition from hydrophilic to hydrophobic of sputtered Cu films with micro-scale patterns. <i>Applied Surface Science</i> , 2020, 527, 146741.	6.1	12
17	Thickness-dependent morphology, microstructure, adsorption and surface free energy of sputtered CeO ₂ films. <i>Ceramics International</i> , 2020, 46, 13925-13931.	4.8	11
18	Formation of skyrmion and skyrmionium in confined nanodisk with perpendicular magnetic anisotropy. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 195001.	2.8	18

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19	Links of Extracellular Enzyme Activities, Microbial Metabolism, and Community Composition in the River-impacted Coastal Waters. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3507-3520.	3.0	12
20	Achieving an acid resistant surface on magnesium alloy via bio-inspired design. <i>Applied Surface Science</i> , 2019, 478, 150-161.	6.1	60
21	Thermal stability, wettability and corrosion resistance of sputtered ceria films on 316 stainless steel. <i>Applied Surface Science</i> , 2019, 477, 166-171.	6.1	16
22	Tunable optical absorption of dimer nanostructure array achieved by angular evaporation. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 115010.	2.6	0
23	Improved microwave absorbing properties by designing heterogeneous interfaces in Mo@2D-MoS ₂ . <i>Journal of Alloys and Compounds</i> , 2018, 767, 1-6.	5.5	16
24	Lubrication of aluminium versus diamond-like carbon contacts with hydrophobin proteins. <i>Surface Engineering</i> , 2017, 33, 49-55.	2.2	0
25	Effect of bias voltage on the properties of CeO ₂ coatings prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2017, 326, 411-416.	4.8	25
26	Effect of oxygen flow ratio on the wetting behavior, microstructure and mechanical properties of CeO ₂ coatings prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2017, 320, 333-338.	4.8	26
27	Tribological performance of few layer graphene on textured M2 steel surfaces. <i>Surface and Coatings Technology</i> , 2016, 296, 164-170.	4.8	48