

Zhizhi Sheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3516990/publications.pdf>

Version: 2024-02-01

29
papers

997
citations

430754

18
h-index

454834

30
g-index

31
all docs

31
docs citations

31
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	Recyclable thermo-insulating panels made by reversible gelling of dispersed silica aerogel microparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2023, 106, 432-443.	1.1	2
2	Liquid Gating Meniscus-Shaped Deformable Magnetoelastic Membranes with Self-Driven Regulation of Gas/Liquid Release. <i>Advanced Materials</i> , 2022, 34, e2107327.	11.1	24
3	Liquid Gating Meniscus-Shaped Deformable Magnetoelastic Membranes with Self-Driven Regulation of Gas/Liquid Release (<i>Adv. Mater.</i> 3/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	1
4	Performance prediction of magnetorheological fluid-based liquid gating membrane by kriging machine learning method. , 2022, 1, 157-169.		17
5	Nanoporous Kevlar Aerogel Confined Phase Change Fluids Enable Super-Flexible Thermal Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	13
6	General Suspended Printing Strategy toward Programmatically Spatial Kevlar Aerogels. <i>ACS Nano</i> , 2022, 16, 4905-4916.	7.3	19
7	Hygroscopic holey graphene aerogel fibers enable highly efficient moisture capture, heat allocation and microwave absorption. <i>Nature Communications</i> , 2022, 13, 1227.	5.8	168
8	Laminated Structural Engineering Strategy toward Carbon Nanotube-Based Aerogel Films. <i>ACS Nano</i> , 2022, 16, 9378-9388.	7.3	58
9	Reconfiguring confined magnetic colloids with tunable fluid transport behavior. <i>National Science Review</i> , 2021, 8, nwaa301.	4.6	25
10	Solid-Liquid Host-Guest Composites: The Marriage of Porous Solids and Functional Liquids. <i>Advanced Materials</i> , 2021, 33, e2104851.	11.1	37
11	Solid-Liquid-Vapor Triphase Gel. <i>Langmuir</i> , 2021, 37, 13501-13511.	1.6	4
12	Liquid-based porous membranes. <i>Chemical Society Reviews</i> , 2020, 49, 7907-7928.	18.7	89
13	A sequential reliability assessment and optimization strategy for multidisciplinary problems with active learning kriging model. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 2975-2994.	1.7	8
14	Highly stretchable and reliable graphene oxide-reinforced liquid gating membranes for tunable gas/liquid transport. <i>Microsystems and Nanoengineering</i> , 2020, 6, 43.	3.4	24
15	A simple and effective strategy to enhance the stability and solid-liquid interfacial interaction of an emulsion by the interfacial dilational rheological properties. <i>Soft Matter</i> , 2020, 16, 5650-5658.	1.2	5
16	Building Magneto-responsive Composite Elastomers for Bionic Locomotion Applications. <i>Journal of Bionic Engineering</i> , 2020, 17, 405-420.	2.7	20
17	Metallic Liquid Gating Membranes. <i>ACS Nano</i> , 2020, 14, 2465-2474.	7.3	30
18	Controllable Liquid-Liquid Printing with Defect-free, Corrosion-Resistance, Unrestricted Wetting Condition. <i>IScience</i> , 2019, 19, 93-100.	1.9	12

#	ARTICLE	IF	CITATIONS
19	Dynamic Curvature Nanochannel-Based Membrane with Anomalous Ionic Transport Behaviors and Reversible Rectification Switch. <i>Advanced Materials</i> , 2019, 31, e1805130.	11.1	114
20	Mobile Liquid Gating Membrane System for Smart Piston and Valve Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11976-11984.	1.8	29
21	Two dimensional nanomaterial-based separation membranes. <i>Electrophoresis</i> , 2019, 40, 2029-2040.	1.3	47
22	Visual Chemical Detection Mechanism by a Liquid Gating System with Dipole-Induced Interfacial Molecular Reconfiguration. <i>Angewandte Chemie</i> , 2019, 131, 4007-4011.	1.6	8
23	Visual Chemical Detection Mechanism by a Liquid Gating System with Dipole-Induced Interfacial Molecular Reconfiguration. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3967-3971.	7.2	33
24	Dynamic air/liquid pockets for guiding microscale flow. <i>Nature Communications</i> , 2018, 9, 733.	5.8	51
25	Liquid gating elastomeric porous system with dynamically controllable gas/liquid transport. <i>Science Advances</i> , 2018, 4, eaao6724.	4.7	96
26	Development and application of bio-inspired microfluidics. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840013.	1.0	6
27	Bioinspired approaches for medical devices. <i>Chinese Chemical Letters</i> , 2017, 28, 1131-1134.	4.8	28
28	CaO-MgO-Al ₂ O ₃ -SiO ₂ (CMAS) Corrosion of Gd ₂ Zr ₂ O ₇ and Sm ₂ Zr ₂ O ₇ . <i>Journal of the Electrochemical Society</i> , 2016, 163, C643-C648.	1.3	20
29	Function of Reaction Layer in Pyrochlore Thermal Barrier Coatings against CMAS Corrosion. <i>ECS Transactions</i> , 2015, 66, 53-59.	0.3	5