

Zhizhi Sheng

List of Publications by Year in descending order

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29
papers

997
citations

430754

18
h-index

454834

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31
docs citations

31
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Dynamic Curvature Nanochannel-Based Membrane with Anomalous Ionic Transport Behaviors and Reversible Rectification Switch. <i>Advanced Materials</i> , 2019, 31, e1805130.	11.1	114
3	Liquid gating elastomeric porous system with dynamically controllable gas/liquid transport. <i>Science Advances</i> , 2018, 4, eaao6724.	4.7	96
4	Liquid-based porous membranes. <i>Chemical Society Reviews</i> , 2020, 49, 7907-7928.	18.7	89
5	Laminated Structural Engineering Strategy toward Carbon Nanotube-Based Aerogel Films. <i>ACS Nano</i> , 2022, 16, 9378-9388.	7.3	58
6	Dynamic air/liquid pockets for guiding microscale flow. <i>Nature Communications</i> , 2018, 9, 733.	5.8	51
7	Two dimensional nanomaterial-based separation membranes. <i>Electrophoresis</i> , 2019, 40, 2029-2040.	1.3	47
8	Solid-Liquid Host-Guest Composites: The Marriage of Porous Solids and Functional Liquids. <i>Advanced Materials</i> , 2021, 33, e2104851.	11.1	37
9	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
10	Metallic Liquid Gating Membranes. <i>ACS Nano</i> , 2020, 14, 2465-2474.	7.3	30
11	Mobile Liquid Gating Membrane System for Smart Piston and Valve Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11976-11984.	1.8	29
12	Bioinspired approaches for medical devices. <i>Chinese Chemical Letters</i> , 2017, 28, 1131-1134.	4.8	28
13	Reconfiguring confined magnetic colloids with tunable fluid transport behavior. <i>National Science Review</i> , 2021, 8, nwaa301.	4.6	25
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	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
16	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
17	Building Magneto-responsive Composite Elastomers for Bionic Locomotion Applications. <i>Journal of Bionic Engineering</i> , 2020, 17, 405-420.	2.7	20
18	General Suspended Printing Strategy toward Programmatically Spatial Kevlar Aerogels. <i>ACS Nano</i> , 2022, 16, 4905-4916.	7.3	19

#	ARTICLE	IF	CITATIONS
19	Performance prediction of magnetorheological fluid-based liquid gating membrane by kriging machine learning method. , 2022, 1, 157-169.		17
20	Nanoporous Kevlar Aerogel Confined Phase Change Fluids Enable Superflexible Thermal Diodes. Advanced Functional Materials, 2022, 32, .	7.8	13
21	Controllable Liquid-Liquid Printing with Defect-free, Corrosion-Resistance, Unrestricted Wetting Condition. IScience, 2019, 19, 93-100.	1.9	12
22	Visual Chemical Detection Mechanism by a Liquid Gating System with Dipole-induced Interfacial Molecular Reconfiguration. Angewandte Chemie, 2019, 131, 4007-4011.	1.6	8
23	A sequential reliability assessment and optimization strategy for multidisciplinary problems with active learning kriging model. Structural and Multidisciplinary Optimization, 2020, 62, 2975-2994.	1.7	8
24	Development and application of bio-inspired microfluidics. International Journal of Modern Physics B, 2018, 32, 1840013.	1.0	6
25	Function of Reaction Layer in Pyrochlore Thermal Barrier Coatings against CMAS Corrosion. ECS Transactions, 2015, 66, 53-59.	0.3	5
26	A simple and effective strategy to enhance the stability and solid-liquid interfacial interaction of an emulsion by the interfacial dilational rheological properties. Soft Matter, 2020, 16, 5650-5658.	1.2	5
27	Solid-Liquid-Vapor Triphase Gel. Langmuir, 2021, 37, 13501-13511.	1.6	4
28	Recyclable thermo-insulating panels made by reversible gelling of dispersed silica aerogel microparticles. Journal of Sol-Gel Science and Technology, 2023, 106, 432-443.	1.1	2
29	Liquid Gating Meniscus-Shaped Deformable Magnetoelastic Membranes with Self-Driven Regulation of Gas/Liquid Release (Adv. Mater. 3/2022). Advanced Materials, 2022, 34, .	11.1	1