

Benzhong Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,193
citations

516215

16
h-index

752256

20
g-index

20
all docs

20
docs citations

20
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Avalanches in strong imbibition. <i>Communications Physics</i> , 2022, 5, .	2.0	3
2	Generalizable Permeability Prediction of Digital Porous Media via a Novel Multi-scale 3D Convolutional Neural Network. <i>Water Resources Research</i> , 2022, 58, .	1.7	16
3	Wettability and Lenormand's diagram. <i>Journal of Fluid Mechanics</i> , 2021, 923, .	1.4	47
4	Superhydrophilic porous transport layer enhances efficiency of polymer electrolyte membrane electrolyzers. <i>Cell Reports Physical Science</i> , 2021, 2, 100580.	2.8	12
5	Temperature-dependent gas accumulation in polymer electrolyte membrane electrolyzer porous transport layers. <i>Journal of Power Sources</i> , 2020, 446, 227312.	4.0	49
6	Critical Current Density as a Performance Indicator for Gas-Evolving Electrochemical Devices. <i>Cell Reports Physical Science</i> , 2020, 1, 100147.	2.8	38
7	Bubble Formation in the Electrolyte Triggers Voltage Instability in CO ₂ Electrolyzers. <i>IScience</i> , 2020, 23, 101094.	1.9	43
8	Signatures of fluid-fluid displacement in porous media: wettability, patterns and pressures. <i>Journal of Fluid Mechanics</i> , 2019, 875, .	1.4	72
9	Transient Gas Saturation in Porous Transport Layers of Polymer Electrolyte Membrane Electrolyzers. <i>ECS Transactions</i> , 2019, 92, 821-832.	0.3	2
10	Comprehensive comparison of pore-scale models for multiphase flow in porous media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13799-13806.	3.3	162
11	Compressible-Gas Invasion into Liquid-Saturated Porous Media: Application to Polymer-Electrolyte-Membrane Electrolyzers. <i>Physical Review Applied</i> , 2019, 11, .	1.5	26
12	Forced Wetting Transition and Bubble Pinch-Off in a Capillary Tube. <i>Physical Review Letters</i> , 2018, 120, 084501.	2.9	52
13	Hydrophilic microporous layer coatings for polymer electrolyte membrane fuel cells operating without anode humidification. <i>Journal of Power Sources</i> , 2018, 402, 468-482.	4.0	42
14	Pore geometry control of apparent wetting in porous media. <i>Scientific Reports</i> , 2018, 8, 15729.	1.6	63
15	The effect of cathode nitrogen purging on cell performance and in operando neutron imaging of a polymer electrolyte membrane electrolyzer. <i>Electrochimica Acta</i> , 2018, 279, 91-98.	2.6	30
16	Quasistatic fluid-fluid displacement in porous media: Invasion-percolation through a wetting transition. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	54
17	Wettability control on multiphase flow in patterned microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10251-10256.	3.3	416
18	Capillary pinning and blunting of immiscible gravity currents in porous media. <i>Water Resources Research</i> , 2014, 50, 7067-7081.	1.7	26

#	ARTICLE	IF	CITATIONS
19	Residual trapping, solubility trapping and capillary pinning complement each other to limit CO2 migration in deep saline aquifers. Energy Procedia, 2014, 63, 3833-3839.	1.8	20
20	Interface pinning of immiscible gravity-exchange flows in porous media. Physical Review E, 2013, 87, 023015.	0.8	20