

Benzhong Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,193
citations

516710
16
h-index

752698
20
g-index

20
all docs

20
docs citations

20
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Avalanches in strong imbibition. Communications Physics, 2022, 5, .	5.3	3
2	Generalizable Permeability Prediction of Digital Porous Media via a Novel Multi-scale 3D Convolutional Neural Network. Water Resources Research, 2022, 58, .	4.2	16
3	Wettability and Lenormand's diagram. Journal of Fluid Mechanics, 2021, 923, .	3.4	47
4	Superhydrophilic porous transport layer enhances efficiency of polymer electrolyte membrane electrolyzers. Cell Reports Physical Science, 2021, 2, 100580.	5.6	12
5	Temperature-dependent gas accumulation in polymer electrolyte membrane electrolyzer porous transport layers. Journal of Power Sources, 2020, 446, 227312.	7.8	49
6	Critical Current Density as a Performance Indicator for Gas-Evolving Electrochemical Devices. Cell Reports Physical Science, 2020, 1, 100147.	5.6	38
7	Bubble Formation in the Electrolyte Triggers Voltage Instability in CO ₂ Electrolyzers. IScience, 2020, 23, 101094.	4.1	43
8	Signatures of fluid-fluid displacement in porous media: wettability, patterns and pressures. Journal of Fluid Mechanics, 2019, 875, .	3.4	72
9	Transient Gas Saturation in Porous Transport Layers of Polymer Electrolyte Membrane Electrolyzers. ECS Transactions, 2019, 92, 821-832.	0.5	2
10	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13799-13806.	7.1	162
11	Compressible-Gas Invasion into Liquid-Saturated Porous Media: Application to Polymer-Electrolyte-Membrane Electrolyzers. Physical Review Applied, 2019, 11, .	3.8	26
12	Forced Wetting Transition and Bubble Pinch-Off in a Capillary Tube. Physical Review Letters, 2018, 120, 084501.	7.8	52
13	Hydrophilic microporous layer coatings for polymer electrolyte membrane fuel cells operating without anode humidification. Journal of Power Sources, 2018, 402, 468-482.	7.8	42
14	Pore geometry control of apparent wetting in porous media. Scientific Reports, 2018, 8, 15729.	3.3	63
15	The effect of cathode nitrogen purging on cell performance and in operando neutron imaging of a polymer electrolyte membrane electrolyzer. Electrochimica Acta, 2018, 279, 91-98.	5.2	30
16	Quasistatic fluid-fluid displacement in porous media: Invasion-percolation through a wetting transition. Physical Review Fluids, 2018, 3, .	2.5	54
17	Wettability control on multiphase flow in patterned microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10251-10256.	7.1	416
18	Capillary pinning and blunting of immiscible gravity currents in porous media. Water Resources Research, 2014, 50, 7067-7081.	4.2	26

#	ARTICLE	IF	CITATIONS
19	Residual trapping, solubility trapping and capillary pinning complement each other to limit CO ₂ 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.	2.1	20