

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	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.	3.3	416
2	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.	3.3	162
3	Signatures of fluid-fluid displacement in porous media: wettability, patterns and pressures. Journal of Fluid Mechanics, 2019, 875, .	1.4	72
4	Pore geometry control of apparent wetting in porous media. Scientific Reports, 2018, 8, 15729.	1.6	63
5	Quasistatic fluid-fluid displacement in porous media: Invasion-percolation through a wetting transition. Physical Review Fluids, 2018, 3, .	1.0	54
6	Forced Wetting Transition and Bubble Pinch-Off in a Capillary Tube. Physical Review Letters, 2018, 120, 084501.	2.9	52
7	Temperature-dependent gas accumulation in polymer electrolyte membrane electrolyzer porous transport layers. Journal of Power Sources, 2020, 446, 227312.	4.0	49
8	Wettability and Lenormand's diagram. Journal of Fluid Mechanics, 2021, 923, .	1.4	47
9	Bubble Formation in the Electrolyte Triggers Voltage Instability in CO ₂ Electrolyzers. IScience, 2020, 23, 101094.	1.9	43
10	Hydrophilic microporous layer coatings for polymer electrolyte membrane fuel cells operating without anode humidification. Journal of Power Sources, 2018, 402, 468-482.	4.0	42
11	Critical Current Density as a Performance Indicator for Gas-Evolving Electrochemical Devices. Cell Reports Physical Science, 2020, 1, 100147.	2.8	38
12	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.	2.6	30
13	Capillary pinning and blunting of immiscible gravity currents in porous media. Water Resources Research, 2014, 50, 7067-7081.	1.7	26
14	Compressible-Gas Invasion into Liquid-Saturated Porous Media: Application to Polymer-Electrolyte-Membrane Electrolyzers. Physical Review Applied, 2019, 11, .	1.5	26
15	Interface pinning of immiscible gravity-exchange flows in porous media. Physical Review E, 2013, 87, 023015.	0.8	20
16	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
17	Generalizable Permeability Prediction of Digital Porous Media via a Novel Multi-scale 3D Convolutional Neural Network. Water Resources Research, 2022, 58, .	1.7	16
18	Superhydrophilic porous transport layer enhances efficiency of polymer electrolyte membrane electrolyzers. Cell Reports Physical Science, 2021, 2, 100580.	2.8	12

#	ARTICLE	IF	CITATIONS
19	Avalanches in strong imbibition. <i>Communications Physics</i> , 2022, 5, .	2.0	3
20	Transient Gas Saturation in Porous Transport Layers of Polymer Electrolyte Membrane Electrolyzers. <i>ECS Transactions</i> , 2019, 92, 821-832.	0.3	2