

# Shuo Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

820  
citations

687220

13  
h-index

610775

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term runoff prediction with GRU and LSTM networks without requiring time step optimization during sample generation. <i>Journal of Hydrology</i> , 2020, 589, 125188.	2.3	302
2	Evaluation of mineral reactive surface area estimates for prediction of reactivity of a multi-mineral sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 310-329.	1.6	108
3	Evaluation of accessible mineral surface areas for improved prediction of mineral reaction rates in porous media. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 31-49.	1.6	79
4	Rates of CO <sub>2</sub> Mineralization in Geological Carbon Storage. <i>Accounts of Chemical Research</i> , 2017, 50, 2075-2084.	7.6	54
5	Three-dimensional printing for geoscience: Fundamental research, education, and applications for the petroleum industry. <i>AAPG Bulletin</i> , 2018, 102, 1-26.	0.7	37
6	Comparison of Flow and Transport Experiments on 3D Printed Micromodels with Direct Numerical Simulations. <i>Transport in Porous Media</i> , 2019, 129, 449-466.	1.2	27
7	Porosity-permeability relationships in modeling salt precipitation during CO <sub>2</sub> sequestration: Review of conceptual models and implementation in numerical simulations. <i>International Journal of Greenhouse Gas Control</i> , 2016, 52, 24-31.	2.3	24
8	Chemical affinity and pH effects on chlorite dissolution kinetics under geological CO <sub>2</sub> sequestration related conditions. <i>Chemical Geology</i> , 2015, 396, 208-217.	1.4	23
9	Effects of soil water content on forest ecosystem water use efficiency through changes in transpiration/evapotranspiration ratio. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108605.	1.9	19
10	Mineralization of carbon dioxide sequestered in volcanogenic sandstone reservoir rocks. <i>International Journal of Greenhouse Gas Control</i> , 2013, 18, 315-328.	2.3	16
11	A new seq2seq architecture for hourly runoff prediction using historical rainfall and runoff as input. <i>Journal of Hydrology</i> , 2022, 612, 128099.	2.3	16
12	The relationship between organoclastic sulfate reduction and carbonate precipitation/dissolution in marine sediments. <i>Marine Geology</i> , 2020, 428, 106284.	0.9	15
13	Equilibrium calcite-fluid Sr/Ca partition coefficient from marine sediment and pore fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 289, 33-46.	1.6	14
14	Authigenic carbonate formation rates in marine sediments and implications for the marine $\delta^{13}C$ record. <i>Earth and Planetary Science Letters</i> , 2018, 495, 135-145.	1.8	13
15	The seawater Sr/Ca ratio in the past 50 Myr from bulk carbonate sediments corrected for diagenesis. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115949.	1.8	13
16	CO <sub>2</sub> mineralization in volcanogenic sandstones: geochemical characterization of the Etchegoin formation, San Joaquin Basin. , 2015, 5, 622-644.		12
17	Constitutive Relations for Reactive Transport Modeling: Effects of Chemical Reactions on Multi-phase Flow Properties. <i>Transport in Porous Media</i> , 2016, 114, 795-814.	1.2	10
18	Micropore network modelling from 2D confocal imagery: impact on reservoir quality and hydrocarbon recovery. <i>Petroleum Geoscience</i> , 2018, 24, 323-334.	0.9	8

#	ARTICLE	IF	CITATIONS
19	Improved quantification of the porosity–permeability relationship of limestones using petrographical texture. <i>Petroleum Geoscience</i> , 2018, 24, 440-448.	0.9	6
20	EFFECT OF MICRITE CONTENT ON CALCITE CEMENTATION IN AN UPPER JURASSIC CARBONATE RESERVOIR, EASTERN SAUDI ARABIA. <i>Journal of Petroleum Geology</i> , 2019, 42, 79-89.	0.9	6
21	3D Printing of True Pore-Scale Berea Sandstone and Digital Rock Verification. <i>SPE Journal</i> , 2021, 26, 3719-3724.	1.7	6
22	A mineral-water-gas interaction model of pCO <sub>2</sub> as a function of temperature in sedimentary basins. <i>Chemical Geology</i> , 2020, 558, 119868.	1.4	4
23	Opportunities for large-scale CO <sub>2</sub> disposal in coastal marine volcanic basins based on the geology of northeast Hawaii. <i>International Journal of Greenhouse Gas Control</i> , 2021, 110, 103396.	2.3	4
24	Reactive transport modeling of stable carbon isotope fractionation in a multi-phase multi-component system during carbon sequestration. <i>Energy Procedia</i> , 2014, 63, 3821-3832.	1.8	3
25	Direct numerical simulation of density driven fingering flow: Towards a model to predict the spacing between halite fingers in hydrocarbon reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108929.	2.1	1