

Rui Song

List of Publications by Year in descending order

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30
papers

668
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567281

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citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive Investigation of the Petrophysical and Two-Phase Flow Properties of the Tight Sandstone in Yanchang Formation, Ordos Basin, China: Insights from Computed Tomography Imaging and Pore Scale Modelling. <i>Lithosphere</i> , 2022, 2022, .	1.4	1
2	Study on the multiphase heat and mass transfer mechanism in the dissociation of methane hydrate in reconstructed real-shape porous sediments. <i>Energy</i> , 2022, 254, 124421.	8.8	36
3	DESIGN AND FABRICATION OF ROCK-BASED MICROFLUIDICS BY 3D PRINTING: THE STRUCTURE CHARACTERIZATION AND PORE-SCALE FLOW EXPERIMENT VALIDATION. <i>Journal of Porous Media</i> , 2021, 24, 77-92.	1.9	1
4	Dissociation and transport modeling of methane hydrate in core-scale sandy sediments: A comparative study. <i>Energy</i> , 2021, 221, 119890.	8.8	20
5	Numerical modeling on hydrate formation and evaluating the influencing factors of its heterogeneity in core-scale sandy sediment. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 90, 103945.	4.4	18
6	Comparative study of VOF, LS, and VOSET on pore-scale immiscible waterflooding modeling. <i>Petroleum</i> , 2021, 7, 314-324.	2.8	9
7	Characterization and microfabrication of natural porous rocks: From micro-CT imaging and digital rock modelling to micro-3D-printed rock analogs. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108827.	4.2	33
8	Pore scale modeling on dissociation and transportation of methane hydrate in porous sediments. <i>Energy</i> , 2021, 237, 121630.	8.8	23
9	Evaluation of elastoplastic properties of brittle sandstone at microscale using micro-indentation test and simulation. <i>Energy Science and Engineering</i> , 2020, 8, 3490-3501.	4.0	2
10	A Comprehensive Experimental Study on Mechanical Behavior, Microstructure and Transport Properties of 3D-printed Rock Analogs. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5745-5765.	5.4	47
11	Mass transfer model of fracture-controlled matrix unit: Model derivation and experimental verification based on fractal theory and micro-CT scanning technology. <i>Energy Reports</i> , 2020, 6, 3067-3079.	5.1	13
12	Effects of Pore Structure on Sandstone Mechanical Properties Based on Micro-CT Reconstruction Model. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-21.	0.7	6
13	Pore-scale visualization and quantitative analysis of the spontaneous imbibition based on experiments and micro-CT technology in low-permeability mixed-wettability rock. <i>Energy Science and Engineering</i> , 2020, 8, 1840-1856.	4.0	15
14	Visualized Experiments on Residual Oil Classification and Its Influencing Factors in Waterflooding Using Micro-Computed Tomography. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	19
15	Comparative analysis on pore-scale permeability prediction on micro-CT images of rock using numerical and empirical approaches. <i>Energy Science and Engineering</i> , 2019, 7, 2842-2854.	4.0	46
16	Single- and multi-objective optimization of a plate-fin heat exchanger with offset strip fins adopting the genetic algorithm. <i>Applied Thermal Engineering</i> , 2019, 159, 113881.	6.0	33
17	Pore scale investigation on scaling-up micro-macro capillary number and wettability on trapping and mobilization of residual fluid. <i>Journal of Contaminant Hydrology</i> , 2019, 225, 103499.	3.3	35
18	Molecular simulation on competitive adsorption mechanism of CH ₄ /CO ₂ on shale kerogen. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	14

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19	Single and multiple objective optimization of a natural gas liquefaction process. <i>Energy</i> , 2017, 124, 19-28.	8.8	81
20	A new method to reconstruct structured mesh model from micro-computed tomography images of porous media and its application. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 705-715.	4.8	77
21	A correlation for heat transfer and flow friction characteristics of the offset strip fin heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 695-705.	4.8	47
22	A Pore Scale Flow Simulation of Reconstructed Model Based on the Micro Seepage Experiment. <i>Geofluids</i> , 2017, 2017, 1-8.	0.7	6
23	A Pore-Scale Simulation on Thermal-Hydromechanical Coupling Mechanism of Rock. <i>Geofluids</i> , 2017, 2017, 1-12.	0.7	15
24	Discussion of Visual Technique for Seepage Experiment Based on Transparent Rock-Soil Material. <i>Open Civil Engineering Journal</i> , 2017, 11, 544-551.	0.8	0
25	Single- and two-phase flow simulation based on equivalent pore network extracted from micro-CT images of sandstone core. <i>SpringerPlus</i> , 2016, 5, 817.	1.2	10
26	Investigation of water and CO ₂ flooding using pore-scale reconstructed model based on micro-CT images of Berea sandstone core. <i>Progress in Computational Fluid Dynamics</i> , 2015, 15, 317.	0.2	11
27	Improvement of predictions of petrophysical transport behavior using three-dimensional finite volume element model with micro-CT images. <i>Journal of Hydrodynamics</i> , 2015, 27, 234-241.	3.2	14
28	Evaluation of prediction models for the physical parameters in natural gas liquefaction processes. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 876-886.	4.4	20
29	Performance Improvement of a Boil-off Gas Re-condensation Process with Pre-cooling at LNG Terminals. <i>International Journal of Thermodynamics</i> , 2015, 18, 74.	1.0	11
30	Numerical Simulation on Hydromechanical Coupling in Porous Media Adopting Three-Dimensional Pore-Scale Model. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	5