Rui Song

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Single and multiple objective optimization of a natural gas liquefaction process. Energy, 2017, 124, 19-28.	8.8	81
2	A new method to reconstruct structured mesh model from micro-computed tomography images of porous media and its application. International Journal of Heat and Mass Transfer, 2017, 109, 705-715.	4.8	77
3	A correlation for heat transfer and flow friction characteristics of the offset strip fin heat exchanger. International Journal of Heat and Mass Transfer, 2017, 115, 695-705.	4.8	47
4	A Comprehensive Experimental Study on Mechanical Behavior, Microstructure and Transport Properties of 3D-printed Rock Analogs. Rock Mechanics and Rock Engineering, 2020, 53, 5745-5765.	5.4	47
5	Comparative analysis on poreâ€scale permeability prediction on microâ€CT images of rock using numerical and empirical approaches. Energy Science and Engineering, 2019, 7, 2842-2854.	4.0	46
6	Study on the multiphase heat and mass transfer mechanism in the dissociation of methane hydrate in reconstructed real-shape porous sediments. Energy, 2022, 254, 124421.	8.8	36
7	Pore scale investigation on scaling-up micro-macro capillary number and wettability on trapping and mobilization of residual fluid. Journal of Contaminant Hydrology, 2019, 225, 103499.	3.3	35
8	Single- and multi-objective optimization of a plate-fin heat exchanger with offset strip fins adopting the genetic algorithm. Applied Thermal Engineering, 2019, 159, 113881.	6.0	33
9	Characterization and microfabrication of natural porous rocks: From micro-CT imaging and digital rock modelling to micro-3D-printed rock analogs. Journal of Petroleum Science and Engineering, 2021, 205, 108827.	4.2	33
10	Pore scale modeling on dissociation and transportation of methane hydrate in porous sediments. Energy, 2021, 237, 121630.	8.8	23
11	Evaluation of prediction models for the physical parameters in natural gas liquefaction processes. Journal of Natural Gas Science and Engineering, 2015, 27, 876-886.	4.4	20
12	Dissociation and transport modeling of methane hydrate in core-scale sandy sediments: A comparative study. Energy, 2021, 221, 119890.	8.8	20
13	Visualized Experiments on Residual Oil Classification and Its Influencing Factors in Waterflooding Using Micro-Computed Tomography. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	19
14	Numerical modeling on hydrate formation and evaluating the influencing factors of its heterogeneity in core-scale sandy sediment. Journal of Natural Gas Science and Engineering, 2021, 90, 103945.	4.4	18
15	A Pore-Scale Simulation on Thermal-Hydromechanical Coupling Mechanism of Rock. Geofluids, 2017, 2017, 1-12.	0.7	15
16	Poreâ€scale visualization and quantitative analysis of the spontaneous imbibition based on experiments and microâ€CT technology in lowâ€permeability mixedâ€wettability rock. Energy Science and Engineering, 2020, 8, 1840-1856.	4.0	15
17	Improvement of predictions of petrophysical transport behavior using three-dimensional finite volume element model with micro-CT images. Journal of Hydrodynamics, 2015, 27, 234-241.	3.2	14
18	Molecular simulation on competitive adsorption mechanism of CH4/CO2 on shale kerogen. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	14

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19	Mass transfer model of fracture-controlled matrix unit: Model derivation and experimental verification based on fractal theory and micro-CT scanning technology. Energy Reports, 2020, 6, 3067-3079.	5.1	13
20	Investigation of water and CO _{2 flooding using pore-scale reconstructed model based on micro-CT images of Berea sandstone core. Progress in Computational Fluid Dynamics, 2015, 15, 317.}	0.2	11
21	Performance Improvement of a Boil-off Gas Re-condensation Process with Pre-cooling at LNG Terminals. International Journal of Thermodynamics, 2015, 18, 74.	1.0	11
22	Single- and two-phase flow simulation based on equivalent pore network extracted from micro-CT images of sandstone core. SpringerPlus, 2016, 5, 817.	1.2	10
23	Comparative study of VOF, LS, and VOSET on pore-scale immiscible waterflooding modeling. Petroleum, 2021, 7, 314-324.	2.8	9
24	A Pore Scale Flow Simulation of Reconstructed Model Based on the Micro Seepage Experiment. Geofluids, 2017, 2017, 1-8.	0.7	6
25	Effects of Pore Structure on Sandstone Mechanical Properties Based on Micro-CT Reconstruction Model. Advances in Civil Engineering, 2020, 2020, 1-21.	0.7	6
26	Numerical Simulation on Hydromechanical Coupling in Porous Media Adopting Three-Dimensional Pore-Scale Model. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	5
27	Evaluation of elastoplastic properties of brittle sandstone at microscale using microâ€indentation test and simulation. Energy Science and Engineering, 2020, 8, 3490-3501.	4.0	2
28	DESIGN AND FABRICATION OF ROCK-BASED MICROFLUIDICS BY 3D PRINTING: THE STRUCTURE CHARACTERIZATION AND PORE-SCALE FLOW EXPERIMENT VALIDATION. Journal of Porous Media, 2021, 24, 77-92.	1.9	1
29	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. Lithosphere, 2022, 2022, .	1.4	1
30	Discussion of Visual Technique for Seepage Experiment Based on Transparent Rock-Soil Material. Open Civil Engineering Journal, 2017, 11, 544-551.	0.8	0