Dongliang Sun

List of Publications by Year
in descending order

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21 papers	340 citations	759233 12 h-index	839539 18 g-index
21 all docs	21 docs citations	21 times ranked	254 citing authors

#	Article	IF	Citations
1	Nanoscale Study of Bubble Nucleation on a Cavity Substrate Using Molecular Dynamics Simulation. Langmuir, 2018, 34, 14234-14248.	3.5	51
2	A method for simulating the release of natural gas from the rupture of high-pressure pipelines in any terrain. Journal of Hazardous Materials, 2018, 342, 418-428.	12.4	40
3	Experimental Investigation of Mechanical Properties and Failure Behavior of Fluid-Saturated Hot Dry Rocks. Natural Resources Research, 2021, 30, 289-305.	4.7	31
4	A new general model for phase-change heat transfer of waxy crude oil during the ambient-induced cooling process. Numerical Heat Transfer; Part A: Applications, 2017, 71, 511-527.	2.1	28
5	Experimental Investigation of Thermal Effect on Fracability Index of Geothermal Reservoirs. Natural Resources Research, 2021, 30, 273-288.	4.7	28
6	Effects of Surface Wettability on Rapid Boiling and Bubble Nucleation: A Molecular Dynamics Study. Nanoscale and Microscale Thermophysical Engineering, 2018, 22, 198-212.	2.6	27
7	A coupled volume of fluid and level set method based on analytic PLIC for unstructured quadrilateral grids. Numerical Heat Transfer, Part B: Fundamentals, 2018, 73, 189-205.	0.9	22
8	An adaptive coupled volume-of-fluid and level set method based on unstructured grids. Physics of Fluids, 2021, 33, .	4.0	18
9	Resolution of Unknown Heat Source Inverse Heat Conduction Problems Using Particle Swarm Optimization. Numerical Heat Transfer, Part B: Fundamentals, 2015, 68, 158-168.	0.9	15
10	Influences of Hydrogen Blending on the Jouleâ€“Thomson Coefficient of Natural Gas. ACS Omega, 2021, 6, 16722-16735.	3.5	15
11	Development of a VOF+LS+SPP method based on FLUENT for simulating bubble behaviors in the electric field. Numerical Heat Transfer, Part B: Fundamentals, 2017, 71, 186-201.	0.9	13
12	Further study on the thermal characteristic of a buried waxy crude oil pipeline during its cooling process after a shutdown. Numerical Heat Transfer; Part A: Applications, 2017, 71, 137-152.	2.1	13
13	Numerical simulation of bubble dynamics in the gravitational and uniform electric fields. Numerical Heat Transfer; Part A: Applications, 2017, 71, 1034-1051.	2.1	11
14	A Numerical Study on the Diversion Mechanisms of Fracture Networks in Tight Reservoirs with Frictional Natural Fractures. Energies, 2018, 11, 3035.	3.1	8
15	Complex Fracture Closure Pressure Analysis During Shut-in: A Numerical Study. Energy Exploration and Exploitation, 2022, 40, 1252-1267.	2.3	7
16	Migration behaviors of leaky dielectric droplets with electric and hydrodynamic forces. Physical Review E, 2019, 100, 033113.	2.1	6
17	Performance analyses of the IDEAL algorithm combined with the fuzzy control method for 3D incompressible fluid flow and heat transfer problems. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 432-446.	0.9	3
18	A Galerkinâ€free/equationâ€free model reduction method for singleâ€phase flow in fractured porous media. Energy Science and Engineering, 2020, 8, 1997-2010.	4.0	2

#	Article	IF	Citations
19	Surrogate modeling and optimization for the unequal diameter radial diffuser of stratified thermal energy storage tanks. Energy Science and Engineering, 2022, 10, 2497-2508.	4.0	1
20	A Novel Layered Slice Algorithm for Soil Heat Storage and Its Solving Performance Analysis. Energies, 2022, 15, 3743.	3.1	1
21	Numerical simulation of fluid flow and heat transfer processes 2015. Advances in Mechanical Engineering, 2016, 8, 168781401666461.	1.6	0