

Fei Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

696
citations

623734

14
h-index

580821

25
g-index

48
all docs

48
docs citations

48
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of immiscible fluid displacement processes with various capillary numbers and viscosity ratios in 3D natural sandstone. <i>Advances in Water Resources</i> , 2016, 95, 3-15.	3.8	145
2	Estimation of three-phase relative permeability by simulating fluid dynamics directly on rock microstructure images. <i>Water Resources Research</i> , 2017, 53, 11-32.	4.2	54
3	Elucidating the Role of Interfacial Tension for Hydrological Properties of Two-Phase Flow in Natural Sandstone by an Improved Lattice Boltzmann Method. <i>Transport in Porous Media</i> , 2014, 104, 205-229.	2.6	51
4	Changes in pore geometry and relative permeability caused by carbonate precipitation in porous media. <i>Physical Review E</i> , 2014, 90, 053306.	2.1	48
5	Impact of interfacial tension on residual CO ₂ clusters in porous sandstone. <i>Water Resources Research</i> , 2015, 51, 1710-1722.	4.2	38
6	A coupled LBM-DEM method for simulating the multiphase fluid-solid interaction problem. <i>Journal of Computational Physics</i> , 2022, 454, 110963.	3.8	27
7	Pore Geometry Characterization by Persistent Homology Theory. <i>Water Resources Research</i> , 2018, 54, 4150-4163.	4.2	26
8	Numerical investigations on the effect of initial state CO ₂ topology on capillary trapping efficiency. <i>International Journal of Greenhouse Gas Control</i> , 2016, 49, 179-191.	4.6	23
9	Scale-independent relationship between permeability and resistivity in mated fractures with natural rough surfaces. <i>Geothermics</i> , 2021, 94, 102065.	3.4	21
10	Evolution of hydraulic and elastic properties of reservoir rocks due to mineral precipitation in CO ₂ geological storage. <i>Computers and Geosciences</i> , 2019, 126, 84-95.	4.2	20
11	A GPU-accelerated fluid-structure-interaction solver developed by coupling finite element and lattice Boltzmann methods. <i>Computer Physics Communications</i> , 2021, 259, 107661.	7.5	17
12	Relating Hydraulic-Electrical-Elastic Properties of Natural Rock Fractures at Elevated Stress and Associated Transient Changes of Fracture Flow. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2145-2164.	5.4	17
13	Lattice Boltzmann simulation of three-phase flows with moving contact lines on curved surfaces. <i>Physical Review E</i> , 2021, 104, 015310.	2.1	16
14	Finite Element Method Analysis of Compression Fractures on Whole-Spine Models Including the Rib Cage. <i>Computational and Mathematical Methods in Medicine</i> , 2019, 2019, 1-10.	1.3	15
15	Influence of pore space heterogeneity on mineral dissolution and permeability evolution investigated using lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2022, 247, 117048.	3.8	15
16	Modeling of three-phase displacement in three-dimensional irregular geometries using a lattice Boltzmann method. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
17	Analysis of the accuracy and pressure oscillation of the lattice Boltzmann method for fluid-solid interactions. <i>Computers and Fluids</i> , 2016, 129, 33-52.	2.5	13
18	Investigation of viscous coupling effects in three-phase flow by lattice Boltzmann direct simulation and machine learning technique. <i>Advances in Water Resources</i> , 2021, 147, 103797.	3.8	13

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19	Prediction of three-phase relative permeabilities of Berea sandstone using lattice Boltzmann method. <i>Physics of Fluids</i> , 2021, 33, .	4.0	12
20	The applicability of SPH and MPS methods to numerical flow simulation of fresh cementitious materials. <i>Construction and Building Materials</i> , 2021, 274, 121736.	7.2	11
21	Tensile Test of Human Lumbar Ligamentum Flavum: Age-Related Changes of Stiffness. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3337.	2.5	11
22	Numerical approach to pipe flow of fresh concrete based on MPS method. <i>Cement and Concrete Research</i> , 2022, 152, 106679.	11.0	11
23	Impact of the kinetic boundary condition on porous media flow in the lattice Boltzmann formulation. <i>Physical Review E</i> , 2017, 96, 013303.	2.1	10
24	Elastic Wave Velocity Changes Due to the Fracture Aperture and Density, and Direct Correlation With Permeability: An Energetic Approach to Mated Rock Fractures. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	9
25	Effect of intercostal muscle contraction on rib motion in humans studied by finite element analysis. <i>Journal of Applied Physiology</i> , 2018, 125, 1165-1170.	2.5	7
26	Anomalous Dispersion in Pore-Scale Simulations of Two-Phase Flow. <i>Transport in Porous Media</i> , 2019, 126, 337-353.	2.6	7
27	Pore-Scale Modeling of Two-Phase Flows with Soluble Surfactants in Porous Media. <i>Energy & Fuels</i> , 2021, 35, 19374-19388.	5.1	7
28	Compression analysis of the gray and white matter of the spinal cord. <i>Neural Regeneration Research</i> , 2020, 15, 1344.	3.0	6
29	Relative Permeability Variation Depending on Viscosity Ratio and Capillary Number. <i>Water Resources Research</i> , 2022, 58, .	4.2	6
30	A voxel image-based pulmonary airflow simulation method with an automatic detection algorithm for airway outlets. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3305.	2.1	5
31	Elucidation of pore connection mechanism during ductile fracture of sintered pure iron by applying persistent homology to 4D images of pores: Role of open pore. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 828, 142112.	5.6	5
32	Four-dimensional observation of ductile fracture in sintered iron using synchrotron X-ray laminography. <i>Powder Metallurgy</i> , 2019, 62, 146-154.	1.7	4
33	Mathematical Modeling of Rock Pore Geometry and Mineralization: Applications of Persistent Homology and Random Walk. <i>Mathematics for Industry</i> , 2018, , 95-109.	0.4	3
34	Simulation of Fluid-Structure Interaction Problems with Thin Elastic Plate via the Coupling of Finite Element and Lattice Boltzmann Methods. <i>International Journal of Computational Methods</i> , 2020, 17, 2050013.	1.3	3
35	Biomechanical Analysis of the Spine in Diffuse Idiopathic Skeletal Hyperostosis: Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8944.	2.5	3
36	Influence of Slip Flow at Fluid-solid Interface upon Permeability of Natural Rock. <i>Energy Procedia</i> , 2017, 114, 3572-3577.	1.8	2

#	ARTICLE	IF	CITATIONS
37	Tensile mechanical analysis of anisotropy and velocity dependence of the spinal cord white matter: a biomechanical study. <i>Neural Regeneration Research</i> , 2021, 16, 2557.	3.0	1
38	Computational Fluid Dynamics Analysis of Blood Flow Changes during the Growth of Saccular Abdominal Aortic Aneurysm. <i>The Journal of Japanese College of Angiology</i> , 2021, 61, 3-10.	0.0	0
39	Analysis of individual differences in pelvic and spine alignment in seated posture and impact on the seatbelt kinematics using human body model. <i>PLoS ONE</i> , 2021, 16, e0254120.	2.5	0
40	Digital rock physics revealing the relationships between permeability, resistivity and elastic wave velocity of rock fractures. , 2021, , .		0
41	Postoperative Prediction of Pulmonary Resection Based on MCA Model by Integrating the Temporal Responses and Biomechanical Functions. , 2022, , 201-206.		0