

Anindityo Patmonoaji

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

355
citations

759233

12
h-index

839539

18
g-index

31
all docs

31
docs citations

31
times ranked

191
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on the displacement patterns and the phase diagram of immiscible fluid displacement in three-dimensional porous media. <i>Advances in Water Resources</i> , 2020, 140, 103584.	3.8	32
2	Investigation of CO ₂ dissolution via mass transfer inside a porous medium. <i>Advances in Water Resources</i> , 2017, 110, 97-106.	3.8	28
3	Three-dimensional fingering structures in immiscible flow at the crossover from viscous to capillary fingering. <i>International Journal of Multiphase Flow</i> , 2020, 122, 103147.	3.4	25
4	Effect of capillary number on morphological characterizations of trapped gas bubbles: Study by using micro-tomography. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120508.	4.8	23
5	Pore-throat characterization of unconsolidated porous media using watershed-segmentation algorithm. <i>Powder Technology</i> , 2020, 362, 635-644.	4.2	21
6	Pore-scale study of in-situ surfactant flooding with strong oil emulsification in sandstone based on X-ray microtomography. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 247-261.	5.8	21
7	Three-dimensional visualization of viscous fingering for non-Newtonian fluids with chemical reactions that change viscosity. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	18
8	Experimental and numerical simulation of supercritical CO ₂ microbubble injection into a brine-saturated porous medium. <i>International Journal of Greenhouse Gas Control</i> , 2019, 91, 102830.	4.6	17
9	Influence of stagnant zones on solute transport in heterogeneous porous media at the pore scale. <i>Physics of Fluids</i> , 2021, 33, .	4.0	16
10	Pore-scale investigation on nonaqueous phase liquid dissolution and mass transfer in 2D and 3D porous media. <i>International Journal of Heat and Mass Transfer</i> , 2021, 169, 120901.	4.8	16
11	Micro-tomographic analyses of specific interfacial area inside unconsolidated porous media with differing particle characteristics from microscopic to macroscopic scale. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 614-621.	9.4	14
12	Solute transport in porous media studied by lattice Boltzmann simulations at pore scale and x-ray tomography experiments. <i>Physical Review E</i> , 2019, 100, 063110.	2.1	14
13	Three-dimensional visualization of the alkaline flooding process with in-situ emulsification for oil recovery in porous media. <i>Journal of Petroleum Science and Engineering</i> , 2021, 202, 108519.	4.2	13
14	Stereolithography 3D Printer for Micromodel Fabrications with Comprehensive Accuracy Evaluation by Using Microtomography. <i>Geosciences (Switzerland)</i> , 2022, 12, 183.	2.2	12
15	Effects of porous electrode pore size and operating flow rate on the energy production of capacitive energy extraction. <i>Renewable Energy</i> , 2020, 155, 278-285.	8.9	10
16	Effects of Dissolution Fingering on Mass Transfer Rate in Three-dimensional Porous Media. <i>Water Resources Research</i> , 2021, 57, e2020WR029353.	4.2	10
17	Enhanced Heavy Oil Recovery by Calcium Hydroxide Flooding with the Production of Viscoelastic Materials: Study with 3-D X-Ray Tomography and 2-D Glass Micromodels. <i>Energy & Fuels</i> , 2021, 35, 11210-11222.	5.1	9
18	Pore-scale investigation of wettability impact on residual nonaqueous phase liquid dissolution in natural porous media. <i>Science of the Total Environment</i> , 2021, 787, 147406.	8.0	9

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19	A novel fuzzy-logic based method for determination of individual bubble velocity and size from dual-plane ultrafast X-ray tomography data of two-phase flow. <i>International Journal of Multiphase Flow</i> , 2017, 96, 144-160.	3.4	8
20	Effect of buoyancy on fingering growth activity in immiscible two-phase flow displacements. <i>Journal of Fluid Science and Technology</i> , 2018, 13, JFST0006-JFST0006.	0.6	7
21	Effect of gas generation by chemical reaction on viscous fingering in a Hele-Shaw cell. <i>Physics of Fluids</i> , 2021, 33, 093104.	4.0	6
22	Spontaneous Deformation of Oil Clusters Induced by Dual Surfactants for Oil Recovery: Dynamic Study from Hele-Shaw Cell to Wettability-Altered Micromodel. <i>Energy & Fuels</i> , 2022, 36, 5762-5774.	5.1	6
23	Competition of gravity and viscous forces in miscible vertical displacement in a three-dimensional porous medium. <i>Physics of Fluids</i> , 2022, 34, .	4.0	6
24	Pore-scale investigation on microemulsion-based quasi-miscible flooding for EOR in water-wet/oil-wet reservoirs: A 3D study by X-ray microtomography. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110788.	4.2	6
25	Experimental investigation of solute transport in variably saturated porous media using x-ray computed tomography. <i>Physics of Fluids</i> , 2021, 33, .	4.0	3
26	A Unique Dissolution Behavior of Trapped CO ₂ into Flowing Water Inside a Porous Medium Compared with Other Gases. <i>Journal of MMIJ</i> , 2021, 137, 91-97.	0.3	2
27	Röntgentomographische Untersuchung von Blasengeschwindigkeiten in vertikalen Gas/flüssig-Strömungen. <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 1423-1423.	0.8	1
28	Investigation on the effect of particle size in dissolution mass transfer inside porous media with micro-tomography. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
29	Dissolution Mass Transfer of Trapped Phase in Porous Media. , 0, , .		1
30	The effect of operating flow rate on the voltage rise of energy extraction by double layer expansion. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
31	Hydrodynamic Fingering Induced by Gel Film Formation in Miscible Fluid Systems: An Experimental and Mathematical Study. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5043.	2.5	0