

Vikranth Kumar Surasani

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

351
citations

840776

11
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

282
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore-scale physics of drying porous media revealed by Lattice Boltzmann simulations. <i>Drying Technology</i> , 2022, 40, 1114-1129.	3.1	12
2	Study on film effects during isothermal drying of square capillary tube using Lattice Boltzmann method. <i>Drying Technology</i> , 2022, 40, 735-747.	3.1	3
3	Influences of Top-Surface Topography on Structural and Residual Trapping During Geological CO ₂ Sequestration. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 113-121.	0.4	2
4	Influence of Caprock Morphology on Solubility Trapping during CO ₂ Geological Sequestration. <i>Geofluids</i> , 2022, 2022, 1-15.	0.7	4
5	Population Balance Modeling with Coupled Agglomeration and Disintegration Processes for TiO ₂ Nanoparticles Formation and Experimental Validation. <i>Journal of Cluster Science</i> , 2021, 32, 1361-1369.	3.3	1
6	Lattice Boltzmann method to study the water-oxygen distributions in porous transport layer (PTL) of polymer electrolyte membrane (PEM) electrolyser. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22747-22762.	7.1	25
7	Investigations of Structural and Residual Trapping Phenomena during CO ₂ Sequestration in Deccan Volcanic Province of the Saurashtra Region, Gujarat. <i>International Journal of Chemical Engineering</i> , 2021, 2021, 1-16.	2.4	10
8	Influence of thermal gradients on the invasion patterns during drying of porous media: A lattice Boltzmann method. <i>Physics of Fluids</i> , 2020, 32, .	4.0	23
9	Lattice Boltzmann simulations for micro-macro interactions during isothermal drying of bundle of capillaries. <i>Chemical Engineering Science</i> , 2020, 220, 115634.	3.8	18
10	Investigation on agglomeration kinetics of acetaminophen using fluidized bed wet granulation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2416.	1.5	8
11	Lattice Boltzmann simulations for invasion patterns during drying of capillary porous media. <i>Chemical Engineering Science</i> , 2019, 196, 310-323.	3.8	33
12	Investigations at an industrial scale on granule and tablet attributes in high shear rapid mixer granulator. <i>Particulate Science and Technology</i> , 2018, 36, 457-463.	2.1	0
13	Implication of surface modified NZVI particle retention in the porous media: Assessment with the help of 1-D transport model. <i>Journal of Earth System Science</i> , 2017, 126, 1.	1.3	10
14	Geophysical monitoring and reactive transport simulations of bioclogging processes induced by <i>Leuconostoc mesenteroides</i> . <i>Geophysics</i> , 2014, 79, E61-E73.	2.6	12
15	Bioclogging and Permeability Alteration by <i>L. mesenteroides</i> in a Sandstone Reservoir: A Reactive Transport Modeling Study. <i>Energy & Fuels</i> , 2013, 27, 6538-6551.	5.1	33
16	Biomass Combustion in a Fluidized-Bed System: An Integrated Model for Dynamic Plant Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9936-9943.	3.7	13
17	Drying Simulations of Various 3D Pore Structures by a Nonisothermal Pore Network Model. <i>Drying Technology</i> , 2010, 28, 615-623.	3.1	31
18	A Non-isothermal Pore Network Drying Model with Gravity Effect. <i>Transport in Porous Media</i> , 2009, 80, 431-439.	2.6	22

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19	Influence of heating mode on drying behavior of capillary porous media: Pore scale modeling. Chemical Engineering Science, 2008, 63, 5218-5228.	3.8	29
20	Consideration of heat transfer in pore network modelling of convective drying. International Journal of Heat and Mass Transfer, 2008, 51, 2506-2518.	4.8	60
21	A 3-dimensional mathematical model to study effects of geometrical parameters on performance of solid oxide fuel cell. Journal of Electrochemical Science and Engineering, 0, , .	3.5	2
22	Lattice Boltzmann modeling and simulation of isothermal drying of capillary porous media. , 0, , .		0