

Abhijit Chaudhuri

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8712017/publications.pdf>

Version: 2024-02-01

41
papers

934
citations

516561

16
h-index

454834

30
g-index

41
all docs

41
docs citations

41
times ranked

804
citing authors

#	ARTICLE	IF	CITATIONS
1	A coupled thermo-hydro-mechanical modeling of fracture aperture alteration and reservoir deformation during heat extraction from a geothermal reservoir. <i>Geothermics</i> , 2017, 65, 17-31.	1.5	139
2	Geothermal reservoir modeling in a coupled thermo-hydro-mechanical-chemical approach: A review. <i>Earth-Science Reviews</i> , 2018, 185, 1157-1169.	4.0	109
3	Investigation of permeability alteration of fractured limestone reservoir due to geothermal heat extraction using three-dimensional thermo-hydro-chemical (THC) model. <i>Geothermics</i> , 2014, 51, 46-62.	1.5	61
4	Reliability of linear structures with parameter uncertainty under non-stationary earthquake. <i>Structural Safety</i> , 2006, 28, 231-246.	2.8	58
5	Fracture transmissivity evolution due to silica dissolution/precipitation during geothermal heat extraction. <i>Geothermics</i> , 2015, 57, 111-126.	1.5	58
6	Sensitivity evaluation in seismic reliability analysis of structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 59-68.	3.4	43
7	Alteration of fractures by precipitation and dissolution in gradient reaction environments: Computational results and stochastic analysis. <i>Water Resources Research</i> , 2008, 44, .	1.7	43
8	The effect of heterogeneity on heat extraction and transmissivity evolution in a carbonate reservoir: A thermo-hydro-chemical study. <i>Geothermics</i> , 2017, 69, 45-54.	1.5	41
9	Early-stage hypogene karstification in a mountain hydrologic system: A coupled thermohydrochemical model incorporating buoyant convection. <i>Water Resources Research</i> , 2013, 49, 5880-5899.	1.7	35
10	A comprehensive numerical study of immiscible and miscible viscous fingers during chemical enhanced oil recovery. <i>Fuel</i> , 2017, 194, 480-490.	3.4	24
11	Numerical modeling of particulate fouling and cake-enhanced concentration polarization in roto-dynamic reverse osmosis filtration systems. <i>Desalination</i> , 2019, 468, 114053.	4.0	24
12	Buoyant convection resulting from dissolution and permeability growth in vertical limestone fractures. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	23
13	A systematic numerical modeling study of various polymer injection conditions on immiscible and miscible viscous fingering and oil recovery in a five-spot setup. <i>Fuel</i> , 2018, 232, 431-443.	3.4	18
14	Iterative filter based estimation of fully 3D heterogeneous fields of permeability and Mualem-van Genuchten parameters. <i>Advances in Water Resources</i> , 2018, 122, 340-354.	1.7	17
15	Analysis of evolving capillary transition, gravitational fingering, and dissolution trapping of CO ₂ in deep saline aquifers during continuous injection of supercritical CO ₂ . <i>International Journal of Greenhouse Gas Control</i> , 2019, 82, 281-297.	2.3	17
16	Potential of CO_2 based geothermal energy extraction from hot sedimentary and dry rock reservoirs, and enabling carbon geo-sequestration. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2020, 6, 1.	1.3	17
17	Constraining complex aquifer geometry with geophysics (2-D ERT and MRS measurements) for stochastic modelling of groundwater flow. <i>Journal of Applied Geophysics</i> , 2013, 98, 288-297.	0.9	16
18	Coupled multiphase flow and transport simulation to model CO ₂ dissolution and local capillary trapping in permeability and capillary heterogeneous reservoir. <i>International Journal of Greenhouse Gas Control</i> , 2021, 108, 103329.	2.3	16

#	ARTICLE	IF	CITATIONS
19	Fracture alteration by precipitation resulting from thermal gradients: Upscaled mean aperture-effective transmissivity relationship. <i>Water Resources Research</i> , 2012, 48, .	1.7	15
20	Simulation of Gravitational Instability and Thermo-solutal Convection During the Dissolution of CO ₂ in Deep Storage Reservoirs. <i>Water Resources Research</i> , 2020, 56, e2019WR026126.	1.7	15
21	Analytical Solutions for Macrodispersion in a 3D Heterogeneous Porous Medium with Random Hydraulic Conductivity and Dispersivity. <i>Transport in Porous Media</i> , 2005, 58, 217-241.	1.2	14
22	Modeling of concentration polarization and permeate flux variation in a roto-dynamic reverse osmosis filtration system. <i>Desalination</i> , 2015, 375, 54-70.	4.0	14
23	Permeate flux decrease due to concentration polarization in a closed roto-dynamic reverse osmosis filtration system. <i>Desalination</i> , 2017, 402, 152-161.	4.0	14
24	Numerical investigations for mitigation of tsunami wave impact on onshore buildings using sea dikes. <i>Ocean Engineering</i> , 2019, 187, 106159.	1.9	14
25	Flow analysis of airfoil having different cavities on its suction surface. <i>Progress in Computational Fluid Dynamics</i> , 2016, 16, 67.	0.1	13
26	Stochastic finite element method for probabilistic analysis of flow and transport in a three-dimensional heterogeneous porous formation. <i>Water Resources Research</i> , 2005, 41, .	1.7	9
27	Permeability and Flow Field Evolution Due to Dissolution of Calcite in a 3-D Porous Rock Under Geothermal Gradient and Through-Flow. <i>Transport in Porous Media</i> , 2016, 112, 39-52.	1.2	9
28	CFD modeling of gypsum scaling in cross-flow RO filters using moments of particle population balance. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104151.	3.3	8
29	Probabilistic Analysis of Pollutant Migration from a Landfill Using Stochastic Finite Element Method. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005, 131, 1042-1049.	1.5	6
30	Stochastic modeling of solute transport in 3-D heterogeneous porous media with random source condition. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006, 21, 159-173.	1.9	6
31	RELIABILITY EVALUATIONS OF 3-D FRAME SUBJECTED TO NON-STATIONARY EARTHQUAKE. <i>Journal of Sound and Vibration</i> , 2003, 259, 797-808.	2.1	5
32	Numerical analysis of viscous fingering and oil recovery by surfactant and polymer flooding in five-spot setup for water and oil-wet reservoirs. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2020, 6, 1.	1.3	5
33	Coupled THMC modeling of dissociation induced deformation of gas hydrate bearing media. <i>Computers and Geosciences</i> , 2022, 166, 105162.	2.0	5
34	Analysis of biodegradation in a 3-D heterogeneous porous medium using nonlinear stochastic finite element method. <i>Advances in Water Resources</i> , 2007, 30, 589-605.	1.7	4
35	Modelling of solute transport in a mild heterogeneous porous medium using stochastic finite element method: Effects of random source conditions. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 557-586.	0.9	4
36	Conditions and processes controlling carbon mineral trapping in intraformational baffles. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103264.	2.3	4

#	ARTICLE	IF	CITATIONS
37	Numerical modelling and design of a small-scale wave-powered desalination system. Ocean Engineering, 2022, 256, 111419.	1.9	4
38	Stochastic finite element method for analysis of transport of nonlinearly sorbing solutes in three-dimensional heterogeneous porous media. Water Resources Research, 2007, 43, .	1.7	3
39	The use of polynomial chaos for parameter identification from measurements in nonlinear dynamical systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 1372-1392.	0.9	3
40	EFFECTS OF POLYMER DISPERSION AND ADSORPTION ON IMMISCIBLE AND MISCIBLE VISCOUS INSTABILITIES DURING CHEMICAL ENHANCED OIL RECOVERY. Journal of Porous Media, 2019, 22, 663-679.	1.0	1
41	Four-wave interactions: islands of stability surrounded by instability. Nonlinear Dynamics, 0, , .	2.7	0