Abhijit Chaudhuri

List of Publications by Year
in descending order

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	Numerical modelling and design of a small-scale wave-powered desalination system. Ocean Engineering, 2022, 256, 111419.	1.9	4
2	Coupled THMC modeling of dissociation induced deformation of gas hydrate bearing media. Computers and Geosciences, 2022, 166, 105162.	2.0	5
3	Conditions and processes controlling carbon mineral trapping in intraformational baffles. International Journal of Greenhouse Gas Control, 2021, 106, 103264.	2.3	4
4	Coupled multiphase flow and transport simulation to model CO2 dissolution and local capillary trapping in permeability and capillary heterogeneous reservoir. International Journal of Greenhouse Gas Control, 2021, 108, 103329.	2.3	16
5	Numerical analysis of viscous fingering and oil recovery by surfactant and polymer flooding in five-spot setup for water and oil-wet reservoirs. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	5
6	Simulation of Gravitational Instability and Thermoâ€Solutal Convection During the Dissolution of CO in Deep Storage Reservoirs. Water Resources Research, 2020, 56, e2019WR026126.	1.7	15
7	Potential of $$hbox {CO}_{2}$$ based geothermal energy extraction from hot sedimentary and dry rock reservoirs, and enabling carbon geo-sequestration. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	17
8	CFD modeling of gypsum scaling in cross-flow RO filters using moments of particle population balance. Journal of Environmental Chemical Engineering, 2020, 8, 104151.	3.3	8
9	Numerical modeling of particulate fouling and cake-enhanced concentration polarization in roto-dynamic reverse osmosis filtration systems. Desalination, 2019, 468, 114053.	4.0	24
10	Numerical investigations for mitigation of tsunami wave impact on onshore buildings using sea dikes. Ocean Engineering, 2019, 187, 106159.	1.9	14
11	Analysis of evolving capillary transition, gravitational fingering, and dissolution trapping of CO2 in deep saline aquifers during continuous injection of supercritical CO2. International Journal of Greenhouse Gas Control, 2019, 82, 281-297.	2.3	17
12	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
13	Iterative filter based estimation of fully 3D heterogeneous fields of permeability and Mualem-van Genuchten parameters. Advances in Water Resources, 2018, 122, 340-354.	1.7	17
14	Geothermal reservoir modeling in a coupled thermo-hydro-mechanical-chemical approach: A review. Earth-Science Reviews, 2018, 185, 1157-1169.	4.0	109
15	A systematic numerical modeling study of various polymer injection conditions on immiscible and miscible viscous fingering and oil recovery in a five-spot setup. Fuel, 2018, 232, 431-443.	3.4	18
16	A comprehensive numerical study of immiscible and miscible viscous fingers during chemical enhanced oil recovery. Fuel, 2017, 194, 480-490.	3.4	24
17	The effect of heterogeneity on heat extraction and transmissivity evolution in a carbonate reservoir: A thermo-hydro-chemical study. Geothermics, 2017, 69, 45-54.	1.5	41
18	Permeate flux decrease due to concentration polarization in a closed roto-dynamic reverse osmosis filtration system. Desalination, 2017, 402, 152-161.	4.0	14

#	Article	IF	Citations
19	A coupled thermo-hydro-mechanical modeling of fracture aperture alteration and reservoir deformation during heat extraction from a geothermal reservoir. Geothermics, 2017, 65, 17-31.	1.5	139
20	Permeability and Flow Field Evolution Due to Dissolution of Calcite in a 3-D Porous Rock Under Geothermal Gradient and Through-Flow. Transport in Porous Media, 2016, 112, 39-52.	1.2	9
21	Flow analysis of airfoil having different cavities on its suction surface. Progress in Computational Fluid Dynamics, 2016, 16, 67.	0.1	13
22	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
23	Fracture transmissivity evolution due to silica dissolution/precipitation during geothermal heat extraction. Geothermics, 2015, 57, 111-126.	1.5	58
24	Modeling of concentration polarization and permeate flux variation in a roto-dynamic reverse osmosis filtration system. Desalination, 2015, 375, 54-70.	4.0	14
25	Investigation of permeability alteration of fractured limestone reservoir due to geothermal heat extraction using three-dimensional thermo-hydro-chemical (THC) model. Geothermics, 2014, 51, 46-62.	1.5	61
26	Constraining complex aquifer geometry with geophysics (2-D ERT and MRS measurements) for stochastic modelling of groundwater flow. Journal of Applied Geophysics, 2013, 98, 288-297.	0.9	16
27	Early-stage hypogene karstification in a mountain hydrologic system: A coupled thermohydrochemical model incorporating buoyant convection. Water Resources Research, 2013, 49, 5880-5899.	1.7	35
28	Fracture alteration by precipitation resulting from thermal gradients: Upscaled mean apertureâ€effective transmissivity relationship. Water Resources Research, 2012, 48, .	1.7	15
29	Buoyant convection resulting from dissolution and permeability growth in vertical limestone fractures. Geophysical Research Letters, 2009, 36, .	1.5	23
30	Modelling of solute transport in a mild heterogeneous porous medium using stochastic finite element method: Effects of random source conditions. International Journal for Numerical Methods in Fluids, 2008, 56, 557-586.	0.9	4
31	Alteration of fractures by precipitation and dissolution in gradient reaction environments: Computational results and stochastic analysis. Water Resources Research, 2008, 44, .	1.7	43
32	Stochastic finite element method for analysis of transport of nonlinearly sorbing solutes in threeâ€dimensional heterogeneous porous media. Water Resources Research, 2007, 43, .	1.7	3
33	Analysis of biodegradation in a 3-D heterogeneous porous medium using nonlinear stochastic finite element method. Advances in Water Resources, 2007, 30, 589-605.	1.7	4
34	Reliability of linear structures with parameter uncertainty under non-stationary earthquake. Structural Safety, 2006, 28, 231-246.	2.8	58
35	Stochastic modeling of solute transport in 3-D heterogeneous porous media with random source condition. Stochastic Environmental Research and Risk Assessment, 2006, 21, 159-173.	1.9	6
36	Analytical Solutions for Macrodispersion in a 3D Heterogeneous Porous Medium with Random Hydraulic Conductivity and Dispersivity. Transport in Porous Media, 2005, 58, 217-241.	1.2	14

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37	Probabilistic Analysis of Pollutant Migration from a Landfill Using Stochastic Finite Element Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 1042-1049.	1.5	6
38	Stochastic finite element method for probabilistic analysis of flow and transport in a three-dimensional heterogeneous porous formation. Water Resources Research, 2005, 41, .	1.7	9
39	Sensitivity evaluation in seismic reliability analysis of structures. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 59-68.	3.4	43
40	RELIABILITY EVALUATIONS OF 3-D FRAME SUBJECTED TO NON-STATIONARY EARTHQUAKE. Journal of Sound and Vibration, 2003, 259, 797-808.	2.1	5
41	Four-wave interactions: islands of stability surrounded by instability. Nonlinear Dynamics, 0, , .	2.7	0