Hamid Nick - DTU Orbit (17/11/2018)

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Research outputs:

A Numerical Study of Fractured Reservoirs' Productivity Behavior through Coupled Hydromechanical Model
Research output: Research - peer-review › Paper – Annual report year: 2018

A three-dimensional coupled thermo-hydro-mechanical model for deformable fractured geothermal systems
Research output: Research - peer-review › Journal article – Annual report year: 2018

Heat Recovery from Multiple-Fracture Enhanced Geothermal Systems: The Effect of Thermoelastic Fracture Interactions
Research output: Research - peer-review › Journal article – Annual report year: 2018

Investigation on the Productivity Behaviour in Deformable Heterogeneous Fractured Reservoirs
Research output: Research - peer-review › Paper – Annual report year: 2018

Synergy potential for oil and geothermal energy exploitation
Research output: Research - peer-review › Journal article – Annual report year: 2018

Thermoporoelastic effects during heat extraction from low-permeability reservoirs
Research output: Research - peer-review › Journal article – Annual report year: 2018

An evaluation of interferences in heat production from low enthalpy geothermal doublets systems
Research output: Research - peer-review › Journal article – Annual report year: 2017

An integrated workflow for stress and flow modelling using outcrop-derived discrete fracture networks
Research output: Research - peer-review › Journal article – Annual report year: 2017

On the connectivity anisotropy in fluvial Hot Sedimentary Aquifers and its influence on geothermal doublet performance
Research output: Research - peer-review › Journal article – Annual report year: 2017

The impact of reduction of doublet well spacing on the Net Present Value and the life time of fluvial Hot Sedimentary Aquifer doublets
Research output: Research - peer-review › Journal article – Annual report year: 2017

Thermodynamic Analysis of Chalk–Brine–Oil Interactions
Research output: Research - peer-review › Journal article – Annual report year: 2017

A geometrically based method for predicting stress-induced fracture aperture and flow in discrete fracture networks
Research output: Research - peer-review › Journal article – Annual report year: 2016
Application of infrared thermography for temperature distributions in fluid-saturated porous media
Research output: Research - peer-review › Journal article – Annual report year: 2016

The impact of different aperture distribution models and critical stress criteria on equivalent permeability in fractured rocks
Research output: Research - peer-review › Journal article – Annual report year: 2016

The impact of in-situ stress and outcrop-based fracture geometry on hydraulic aperture and upscaled permeability in fractured reservoirs
Research output: Research - peer-review › Journal article – Annual report year: 2016

The influence of facies heterogeneity on the doublet performance in low-enthalpy geothermal sedimentary reservoirs
Research output: Research - peer-review › Journal article – Annual report year: 2016

A prototype design model for deep low-enthalpy hydrothermal systems
Research output: Research - peer-review › Journal article – Annual report year: 2015

Multiscale fracture network characterization and impact on flow: A case study on the Latemar carbonate platform
Research output: Research - peer-review › Journal article – Annual report year: 2015

Experimental-numerical study of heat flow in deep low-enthalpy geothermal conditions
Research output: Research - peer-review › Journal article – Annual report year: 2014

Modelling stress-dependent permeability in fractured rock including effects of propagating and bending fractures
Research output: Research - peer-review › Journal article – Annual report year: 2013

Reactive dispersive contaminant transport in coastal aquifers: Numerical simulation of a reactive Henry problem
Research output: Research - peer-review › Journal article – Annual report year: 2013

Pore-scale modeling of reactive transport in wellbore cement under CO2 storage conditions
Research output: Research - peer-review › Journal article – Annual report year: 2012

A Hybrid Finite-Element Finite-Volume Method with Embedded Discontinuities for Solute Transport in Heterogeneous Media
Research output: Research - peer-review › Journal article – Annual report year: 2011

Research output: Research - peer-review › Journal article – Annual report year: 2011

Role of geomechanically grown fractures on dispersive transport in heterogeneous geological formations
Research output: Research - peer-review › Journal article – Annual report year: 2011

Research output: Research - peer-review › Journal article – Annual report year: 2010

Modeling Transverse Dispersion and Variable Density Flow in Porous Media
Research output: Research - peer-review › Journal article – Annual report year: 2009

Upscaling two-phase flow in naturally fractured reservoirs
Research output: Research - peer-review › Journal article – Annual report year: 2009
Projects:

Geomechanical and flow modelling fractures in Lower Cretaceous rock  
Project: PhD

Numerical modelling and upscaling of modified salinity water flooding  
Project: PhD

Numerical modelling of reservoir souring in chalk reservoirs  
Project: PhD

Novel Productivity Enhancement Concept for a Sustainable Utilization of a Geothermal Resource  
Project: Research

Numerical modelling of near wellbore flow  
Project: PhD

Enhanced Oil Recovery Methods targeting Danish North Sea Chalk Reservoirs  
Project: PhD

Production performance of radial water-jet drilled wells: a modelling and laboratory study  
Project: PhD

Simulation and Optimization of Oil Reservoirs in the Danish North Sea  
Project: PhD