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Publications:

Modeling the influence of potassium content and heating rate on biomass pyrolysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

Publisher’s Note to Modeling the influence of potassium content and heating rate on biomass pyrolysis [Appl. Energy J. 194 (2017) 199–211]
Publication: Communication › Comment/debate – Annual report year: 2017

Water-Oil Emulsions with Fines in Smart Water Enhanced Oil Recovery
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Comparative analysis of experimental methods for quantification of small amounts of oil in water
Publication: Research - peer-review › Journal article – Annual report year: 2016

Enhanced Oil Recovery with Application of Enzymes
Publication: Research › Ph.D. thesis – Annual report year: 2016

Fast pyrolysis of biomass at high temperatures
Publication: Research › Ph.D. thesis – Annual report year: 2016

Mechanics of the Separating Surface for a Two-Phase Co-current Flow in a Porous Medium
Publication: Research - peer-review › Journal article – Annual report year: 2016

Microbial enhanced oil recovery—a modeling study of the potential of spore-forming bacteria
Publication: Research - peer-review › Journal article – Annual report year: 2015

Investigation of spore forming bacterial flooding for enhanced oil recovery in a North Sea chalk Reservoir
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modeling of Dissolution Effects on Waterflooding
Publication: Research - peer-review › Journal article – Annual report year: 2014

Modeling of Salinity Effects on Waterflooding of Petroleum Reservoirs
Publication: Research › Ph.D. thesis – Annual report year: 2016
Multicomponent Adsorption Model for Polar and Associating Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2015

Optimization of Spore Forming Bacteria Flooding for Enhanced Oil Recovery in North Sea Chalk Reservoir
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Quantification of the recovered oil and water fractions during water flooding laboratory experiments
Publication: Research › Article in proceedings – Annual report year: 2015

Study of wettability of calcite surfaces using oil-brine-enzyme systems for enhanced oil recovery applications
Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Journal article – Annual report year: 2015

Crossflow and water banks in viscous dominant regimes of waterflooding
Publication: Research - peer-review › Journal article – Annual report year: 2014

Experimental Study of Bacterial Penetration into Chalk Rock: Mechanisms and Effect on Permeability
Publication: Research - peer-review › Journal article – Annual report year: 2014

Simulations of Microbial-Enhanced Oil Recovery: Adsorption and Filtration
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Theoretical Analysis of Colloid Attachment and Straining in Chemically Heterogeneous Porous Media
Publication: Research - peer-review › Journal article – Annual report year: 2013

Capabilities and limitations of predictive engineering theories for multicomponent adsorption
Publication: Research - peer-review › Journal article – Annual report year: 2013

Improved population balance model for straining-dominant deep bed filtration using network calculations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Molasses injection as a MEOR strategy: Enrichment incubations of brine/oil from North Sea Oil Field
Publication: Research - peer-review › Poster – Annual report year: 2013

Numerical analysis of a one-dimensional multicomponent model of the in-situ combustion process
Publication: Research - peer-review › Journal article – Annual report year: 2013

Potential theory of adsorption for associating mixtures: possibilities and limitations
Publication: Research - peer-review › Journal article – Annual report year: 2012

Solving inverse problems through a smooth formulation of multiple-point geostatistics
Publication: Research › Ph.D. thesis – Annual report year: 2014

The Effect of Bacteria Penetration on Chalk Permeability
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

A New Comprehensive Approach for Predicting Injectivity Decline during Waterflooding
Publication: Research - peer-review › Paper – Annual report year: 2012
Mathematical Model for Microbial Enhanced Oil Recovery with Surfactant Distributed between Phases
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Modeling adsorption of liquid mixtures on porous materials
Publication: Research - peer-review › Journal article – Annual report year: 2009

Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Study of high-pressure adsorption from supercritical fluids by the potential theory
Publication: Research - peer-review › Journal article – Annual report year: 2009

Statistical methods for history matching
Publication: Research › Ph.D. thesis – Annual report year: 2008

Behavior of Fluid Mixtures in Porous Materials
Publication: Research › Poster – Annual report year: 2008

Elliptic random-walk equation for suspension and tracer transport in porous media
Publication: Research - peer-review › Journal article – Annual report year: 2008

Fractional Flow Model for Suspension Transport in Porous Media
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Gas transport in tight porous media Gas kinetic approach
Publication: Research - peer-review › Journal article – Annual report year: 2008

Phase Behavior in Confined Systems
Publication: Research › Poster – Annual report year: 2008

Random-Walk Description of Suspension Transport in Porous Media
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

A stochastic model for filtration of particulate suspensions with incomplete pore plugging
Publication: Research - peer-review › Journal article – Annual report year: 2007

Diffusion measurements in binary liquid mixtures by Raman spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2006

Diffusionsmålinger med Ramanspektroskop: Viden om diffusioner er i mange sammenhænge af stor betydning. Her beskrives en simpel måde til at studere diffusioner i væsker
Publication: Communication › Journal article – Annual report year: 2007

Elliptic equation for random walks. Application to transport in microporous media
Publication: Research - peer-review › Journal article – Annual report year: 2007
Modeling adsorption of binary and ternary mixtures on microporous media
Publication: Research - peer-review › Journal article – Annual report year: 2007

Model til adsorption af gas og væsker i mikroporøse faste stoffer
Publication: Research › Journal article – Annual report year: 2007

Prediction of adsorption from liquid mixtures in microporous media by the potential theory
Publication: Research - peer-review › Conference article – Annual report year: 2007

Phase Behavior and Viscosity Modeling of Refrigerant-Lubricant Mixtures
Publication: Research › Ph.D. thesis – Annual report year: 2006

Adsorption of Multicomponent Mixtures on Heterogeneous Microporous Solids
Publication: Research › Poster – Annual report year: 2006

A splitting technique for analytical modelling of two-phase multicomponent flow in porous media
Publication: Research - peer-review › Journal article – Annual report year: 2006

Dissolution of Light Hydrocarbons in Drilling Muds, Prediction of the Nature of Reservoir Fluids Based on Gas Shows
Publication: Research › Ph.D. thesis – Annual report year: 2006

Experimental investigation of the diffusion coefficients in porous media by application of X-ray computer tomography
Publication: Research - peer-review › Journal article – Annual report year: 2006

Modeling Phase Equilibria and Volumetric Behavior of Refrigerant + Lubricant Mixtures
Publication: Research - peer-review › Poster – Annual report year: 2006

Multicomponent Adsorption Approaches to Modeling Adsorption Equilibria
Publication: Research - peer-review › Book chapter – Annual report year: 2006

On the Process of Gas Liberation in Porous Media
Publication: Research - peer-review › Journal article – Annual report year: 2003

Statistical Methods for History Matching
Publication: Research - peer-review › Poster – Annual report year: 2006

Diffusion Coefficients in Multicomponent Mixtures
Publication: Research › Ph.D. thesis – Annual report year: 2005

Modeling diffusion coefficients in binary mixtures of polar and non-polar compounds
Publication: Research - peer-review › Journal article – Annual report year: 2005

Molecular dynamics simulations of the penetration lengths: application within the fluctuation theory for diffusion coefficients
Publication: Research - peer-review › Journal article – Annual report year: 2005

Modeling the Thermal Diffusion Coefficients
Publication: Research › Ph.D. thesis – Annual report year: 2004

Analytical Model for 1-D Gas Flooding: Splitting between Hydrodynamics and Thermodynamics
Publication: Research - peer-review › Journal article – Annual report year: 2004
Diffusion measurements by Raman spectroscopy
Publication: Research - peer-review › Poster – Annual report year: 2004

Fluctuation theory for transport properties in multicomponent mixtures: thermodiffusion and heat conductivity
Publication: Research - peer-review › Journal article – Annual report year: 2004

Modeling Diffusion Coefficients in Binary Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2004

Streamline Simulation with Capillary Effects Applied to Petroleum Engineering Problems
Publication: Research › Ph.D. thesis – Annual report year: 2004

Three-phase Compositional Streamline Simulation and Its Application to WAG
Publication: Research › Paper – Annual report year: 2004

Black Oil Streamline Simulator with Capillary Effects
Publication: Research › Poster – Annual report year: 2003

Black Oil Streamline Simulator with Capillary Effects
Publication: Research › Conference abstract in proceedings – Annual report year: 2003

Compositional Streamline Simulation: Progress Report No. 4
Publication: Research - peer-review › Report – Annual report year: 2003

Evaluation of diffusion coefficients in multicomponent mixtures by means of the fluctuation theory
Publication: Research - peer-review › Journal article – Annual report year: 2003

Evaluation of the Thermodynamic Models for the Thermal Diffusion Factor
Publication: Research - peer-review › Journal article – Annual report year: 2002

Verifying reciprocal relations for experimental diffusion coefficients in multicomponent mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2003

Diffusion in Multicomponent Mixtures
Publication: Research - peer-review › Book chapter – Annual report year: 2002

Effect of Geothermal Gradients on Fluid Distribution in Petroleum Reservoirs
Publication: Research - peer-review › Book chapter – Annual report year: 2002

Modelling the Acid Restimulation of Carbonate Fractured Injection Wells in a North Sea
Publication: Research › Conference abstract for conference – Annual report year: 2002

Multicomponent Adsorption: Principles and Models
Publication: Research - peer-review › Book chapter – Annual report year: 2001

Principle of Entropy Maximization for Nonequilibrium Steady States
Publication: Research - peer-review › Journal article – Annual report year: 2002

Thermodynamics of the multicomponent vapor-liquid equilibrium under capillary pressure difference
Publication: Research - peer-review › Journal article – Annual report year: 2001
Effect of Low Permeable Porous Media on Behavior of Gas Condensate
Publication: Research - peer-review › Journal article – Annual report year: 2000

Effect of low permeable porous media on behavior of gas condensates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Factorization of Transport Coefficients in Macroporous Media
Publication: Research - peer-review › Journal article – Annual report year: 2000

High Pressure Multicomponent Adsorption in Porous Media
Publication: Research - peer-review › Journal article – Annual report year: 1999

Nonequilibrium Segregation in Petroleum Reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 1999

Analysis of Multicomponent Adsorption Close to a Dew Point
Publication: Research - peer-review › Journal article – Annual report year: 1998

Potential Theory of Multicomponent Adsorption
Publication: Research - peer-review › Journal article – Annual report year: 1998

Kelvin Equation for a Non-Ideal Multicomponent Mixture
Publication: Research - peer-review › Journal article – Annual report year: 1997

Effects of Capillary Forces and Adsorption on Reserves Distribution
Publication: Research - peer-review › Journal article – Annual report year: 1996

On the nonequilibrium segregation state of a two-phase mixture in a porous column
Publication: Research - peer-review › Journal article – Annual report year: 1996

Statistical Description of Segregation in a Powder Mixture
Publication: Research - peer-review › Journal article – Annual report year: 1996

Statistical Thermodynamics of Disperse Systems
Publication: Research - peer-review › Journal article – Annual report year: 1996

Projects:

Experimental investigation of gas injection processes for enhanced oil recovery
Project: PhD

Gas liberation in tight porous medium
Project: PhD

Advanced oil recovery processes: Modifications of injection water composition
Project: PhD

Enhanced Oil Recovery Methods targeting Danish North Sea Chalk Reservoirs
Project: PhD
Estimation of Matrix Flow contribution in naturally fractured reservoirs
Project: PhD

Compositional Reservoir Simulation Involving Complex Phase Equilibria
Project: PhD

Modelling of Salinity Effects on Waterflooding of Petroleum Reservoirs
Project: PhD

Single Biomass Particle Combustion and Fuel Characterization
Project: PhD

Enhanced Oil Recovery with Application of Microorganisms
Project: PhD

Enhanced Oil Recovery with Application of Enzymes
Project: PhD

Integrated Modeling of Oil Reservoirs - history matching and geostatistical analysis
Project: PhD

Stochastic Modelling Polydisperse Transport of Particles in Porous Media
Project: PhD

ParPor - Particles in Pores. Stochastic Modeling of Polydisperse Transport
Project

Advanced Waterflooding in Low Permeable Carbonate Reservoirs
Project: PhD

PhD Summer School
Project

Reactive Transport In Oil Recovery Processes
Project: PhD

Multiphase flows in porous media
Project: PhD

Design of CO2 Capture Units using Aqueous Alkanolamines
Project: PhD

CO2 Injection In Low Permeable Oil and Gas Reservoir
Project: PhD

Avanceret Reservoir Simulering
Project: PhD

Molecular Modelling of Polymer Melt Rheology
Project: PhD
History Matching using Stochastic Methods
Project: PhD

Avanceret Reservoirsimulerings
Project: PhD

Phase Behaviour and Viscosity Modelling of Refrigerants-Lubricants Mixtures
Project: PhD

Transport Properties in Free Space and in aPorous Media
Project: PhD

Compositional Streamline Simulation
Project: PhD

Transport Coefficients in Hydrocarbon Mixtures under Microgravity Conditions
Project: PhD

Dissolution and Adsorption of Light Hydrocarbons in Drilling Muds, Prediction of the Nature of a Reservoir Fluid Based on Gas Shows
Project: PhD

Kompositionel reservoirsimulerings af gas injektionsprocesser
Project: PhD

Modelling of Phase Equilibria and Transport Properties (C.1)
Project

Recovery processes (C.7)
Project