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Publication: Research › Ph.D. thesis – Annual report year: 2010

Multiphase Equilibrium in Systems with Production Chemicals
Publication: Research › Ph.D. thesis – Annual report year: 2010

Chilled Ammonia Process for CO2 Capture
Publication: Research - peer-review › Conference article – Annual report year: 2010

1D Simulations for Microbial Enhanced Oil Recovery with Metabolite Partitioning
Publication: Research - peer-review › Journal article – Annual report year: 2010

Absorber Model for CO2 Capture by Monoethanolamine
Publication: Research - peer-review › Journal article – Annual report year: 2010

Advanced Waterflooding in Carbonate Reservoirs
Zahid, A., Stenby, E. H. & Shapiro, A. 2010
Publication: Research › Poster – Annual report year: 2010

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

CAP Chemistry and Phase Equilibrium in the CO2-NH3-H2O System
Thomsen, K. 2010
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Comparison CAP vs. MEA/amine
Thomsen, K. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Comparison of activity coefficient models for electrolyte systems
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Compositional Simulation of In-Situ Combustion EOR: A Study of Process Characteristics
Jain, P. 2010 Proceedings from SPE Improved Oil Recovery Symposium.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010
COMSOL Implementation for Two-Phase Immiscible Flows in Layered Reservoir
Zhang, X. 2010 Proceedings from European COMSOL Conference.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Design of a Eutectic Freeze Crystallization process for multicomponent waste water stream
Publication: Research - peer-review › Journal article – Annual report year: 2010

Estimation of Migration and Diffusion Coefficients of GRINDSTED(R) SOFT-N-SAFE from PVC into Iso-octane
Lundsgaard, R. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

Experimental investigation and molecular simulation of gas hydrates
Publication: Research › Ph.D. thesis – Annual report year: 2010

Extensive Comparison of Cubic Plus Association (CPA) and PC-SAFT Equations of State
Publication: Research - peer-review › Poster – Annual report year: 2010

Fang CO2 med Aminosyrer
Lerche, B. M. 2010 In : Aktuel Naturvidenskab. 6, p. 24-27
Publication: Research - peer-review › Journal article – Annual report year: 2010

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How to Model CO2 Capture
Publication: Research › Article in proceedings – Annual report year: 2010

Improved Oil Recovery in Chalk: Wettability Alteration or Something Else?
Publication: Research - peer-review › Journal article – Annual report year: 2010

Industrial Requirements for Thermodynamic and Transport Properties
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Inhibition of Gas Hydrate Formation by Antifreeze Proteins
Jensen, L. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

Inhibition of Gas Hydrate Formation by Low-Dosage, Environmentally Benign Inhibitors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Inhibition of Methane Hydrate Formation by Ice-Structuring Proteins
Publication: Research - peer-review › Journal article – Annual report year: 2010
Integrating chemical engineering fundamentals in the capstone process design project
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Intramolecular Association within the SAFT Framework
Avlund, A. S. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Intramolecular Association within the SAFT Framework
Avlund, A. S. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

Kinetic Study and Process Simulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Microbial Enhanced Oil Recovery: 3D Simulation with Gravity Effects
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Microbial Enhanced Oil Recovery - Advanced Reservoir Simulation
Publication: Research › Ph.D. thesis – Annual report year: 2010

Modeling Non-Fickian Transport and Hyperexponential Deposition for Deep Bed Filtration
Yuan, H. & Shapiro, A. 2010 In : Chemical Engineering Journal. 162, p. 974-988
Publication: Research - peer-review › Journal article – Annual report year: 2010

Modeling of carbon dioxide absorption by aqueous ammonia solutions using the Extended UNIQUAC model
Publication: Research - peer-review › Journal article – Annual report year: 2010

Modeling Phase Equilibria for Acid Gas Mixtures Using the CPA Equation of State. I. Mixtures with H2S
Publication: Research - peer-review › Journal article – Annual report year: 2010

Modeling Reservoir Formation Damage due to Water Injection for Oil Recovery
Yuan, H. 2010 Graduate Schools Yearbook 2010. Technical University of Denmark, Department of Chemical Engineering , p. 185-188
Publication: Research › Book chapter – Annual report year: 2011

Modeling the Phase Behavior of Mixtures used in Oxidation of Alcohols in Supercritical CO2
Tsivintzelis, I., Beier, M. J., Grunwaldt, J. D. & Kontogeorgis, G. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

Modelling of Partition Coefficients of Additives in Polymer/solvent Systems by Free Energy Calculations
Lundsgaard, R. 2010
Phase Equilibrium with Surfactant Model System at Elevated Pressures
Sandersen, S. B. 2010
Publication: Research › Poster – Annual report year: 2010

Post-Combustion Capture of CO2 from Fossil Fueled Power Plants
Publication: Research › Ph.D. thesis – Annual report year: 2010

Preparation and structural characterisation of novel and versatile amphiphilic octenyl succinic anhydride-modified hyaluronic acid derivatives
Publication: Research - peer-review › Journal article – Annual report year: 2010

PVT Modeling of Reservoir Fluids using PC-SAFT EoS and Soave-BWR EOS
Yan, W. & Stenby, E. H. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Rate Based Carbon Dioxide Capture Desorption Modelling
Publication: Research › Article in proceedings – Annual report year: 2010

Recent Applications of the CPA Equations of State
Tsivintzelis, I., Kontogeorgis, G., Michelsen, M. L. & Stenby, E. H. 2010
Publication: Research › Poster – Annual report year: 2010

Recovery of Phosphate from Waste: Thermodynamic Modeling of Phosphate Systems
Thomsen, K. 2010
Publication: Research › Poster – Annual report year: 2010

Refrigeration plants using carbon dioxide as refrigerant: measuring and modelling the solubility and diffusion of carbon dioxide in polymers used as sealing materials
Publication: Research - peer-review › Journal article – Annual report year: 2010

Review and recommended thermodynamic properties of FeCO3
Publication: Research - peer-review › Journal article – Annual report year: 2010

Solid–liquid equilibria for binary and ternary systems with the Cubic-Plus-Association (CPA) equation of state
Fettouhi, A. & Thomsen, K. 2010 In : Fluid Phase Equilibria. 293, 2, p. 121-129
Publication: Research - peer-review › Journal article – Annual report year: 2010

Solid-Liquid Equilibria for Many-component Mixtures Using Cubic-Plus-Association (CPA) equation of state
Publication: Research › Article in proceedings – Annual report year: 2010

Tertiary Carbon Dioxide Flooding of Low Permeable Chalk with In-Situ Saturation Determination using X-Ray Computed Tomography
Niu, B., Yan, W., Shapiro, A. & Stenby, E. H. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010
The Cubic Plus Association (CPA) Equation of State: What have we learnt in 15 years and future challenges
Kontogeorgis, G., Tsivintzelis, I., Michelsen, M. L., Breil, M. P. & Stenby, E. H. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

The Influence of CO2 Solubility in Brine on Simulation of CO2 Injection into Water Flooded Reservoir and CO2 WAG
Yan, W. & Stenby, E. H. 2010 In : S P E. p. 131094
Publication: Research - peer-review › Conference article – Annual report year: 2010

Thermodynamic Applications in Petroleum, Energy, Material/Chemical and Biochemical Industries
Kontogeorgis, G. 2010
Publication: Research › Paper – Annual report year: 2010

Thermodynamic Modeling of Sour Gas Cleaning Process
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Thermodynamic Modeling of Sour Gas Cleaning Process
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Thermodynamic Models for Industrial Applications: From Classical and Advanced Mixing Rules to Association Theories
Publication: Research - peer-review › Book – Annual report year: 2010

The Stability of Methane Hydrate from Molecular Simulation
Jensen, L. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

Towards Predictive Association Theories
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Transport of reservoir fines: a novel model for formation heterogeneity and particle heterogeneity
Yuan, H., Shapiro, A. & Stenby, E. H. 2010
Publication: Research › Poster – Annual report year: 2010

Tuning the catalytic Activity in the Selective Aerobic Alcohol Oxidation in Supercritical CO2 by Modeling the Phase Behavior
Beier, M. J., Tsivintzelis, I., Kontogeorgis, G. & Grunwaldt, J-D. 2010
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Upscaling of Waterflooding in Porous Media
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Use of Monomer Fraction Data in the Parametrization of Association Theories
Publication: Research - peer-review › Journal article – Annual report year: 2010

Vapor-Liquid Equilibrium Measurements and Modeling of the Propyl Mercaptan plus Methane plus Water System
Electrolyte Solutions: Thermodynamics, Crystallization, Separation methods
Thomsen, K. 2009 111 p.
Publication: Education › Compendium/lecture notes – Annual report year: 2009

Capture and Storage Projects at IVC-SEP
Publication: Research - peer-review › Poster – Annual report year: 2008

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

Modeling of Phase Equilibria for Paint-Related Polymer Systems
Publication: Research › Ph.D. thesis – Annual report year: 2004

Thermodynamic Modelling of Surfactant Solutions
Publication: Research › Ph.D. thesis – Annual report year: 2004

PVT characterization and viscosity modeling and prediction of crude oils
Publication: Research - peer-review › Journal article – Annual report year: 2004

Modelling of Phase Equilibria Containing Associating Fluids
Derawi, S., Stenby, E. H. & Kontogeorgis, G. Feb 2003
Publication: Research › Conference abstract for conference – Annual report year: 2003

Application of the CPA equation of state to industrially important systems
Derawi, S., Michelsen, M. L., Kontogeorgis, G. & Stenby, E. H. 2003
Publication: Research › Conference abstract for conference – Annual report year: 2003

Application of the CPA Equation of State to Industrially Important Systems
Publication: Research › Conference abstract for conference – Annual report year: 2003

Applications of Association Models to problems of the Oil, Chemical and Polymer Industries
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

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

Chemical Product Design - A new multidisciplinary teaching and research activity at Institut for Kemiteknik
Publication: Research › Conference abstract in proceedings – 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

Verifying reciprocal relations for experimental diffusion coefficients in multicomponent mixtures
Medvedev, O. & Shapiro, A. 2003 In : Fluid Phase Equilibria. 208, 1-2, p. 291-301
Publication: Research - peer-review › Journal article – Annual report year: 2003

Liquid-liquid equilibria for glycols plus hydrocarbons: Data and correlation
Publication: Research - peer-review › Journal article – Annual report year: 2002

Research at KT 2002
Publication: Research › Report – Annual report year: 2002

Determination of Relative Permeability - Analysis of Experimental Methods
Poulsen, S. & Stenby, E. H. Sep 2001
Publication: Research › Ph.D. thesis – Annual report year: 2001

Viscosity Study of Hydrcarbon Fluids at Reservoir Conditions Modeling and Measurements
Publication: Research › Ph.D. thesis – Annual report year: 2001

Thermodynamics of the multicomponent vapor-liquid equilibrium under capillary pressure difference
Publication: Research - peer-review › Journal article – Annual report year: 2001

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

Projects:

Thermodynamics, Design, Simulation and Benchmarking of Biofuel Processes
Fosbøl, P. L.
01/07/2015 → 30/06/2019
Project

Sulphur (SOx) corrosion in large diesel engines
Fosbøl, P. L.
01/07/2015 → 01/01/2019
Project

Temperature and poroelasticity of sedimentary rocks
Orlander, T.
01/08/2014 → 01/08/2017
Project
Wood Coatings
Kontogeorgis, G.
01/05/2012 → 30/11/2016
Project

CHIGP Petrobras
Biede, A. L. & Kontogeorgis, G.
01/02/2012 → 31/12/2014
Project

CHIGP Petrobras
Kontogeorgis, G.
01/02/2012 → 31/12/2014
Project

CO2 Kompression
Fosbøl, P. L.
01/02/2012 → 31/12/2012
Project

Development of Non Destructive Methods
Fosbøl, P. L.
01/02/2012 → 31/03/2016
Project

CO2 Hydrates-Challenges and Possibilities
Kontogeorgis, G.
08/11/2011 → 30/06/2014
Project

Otto Mønsted
von Solms, N.
01/10/2011 → 31/12/2012
Project

CHIGP-GERG
Kontogeorgis, G.
01/03/2011 → 01/07/2014
Project

Reson
Kontogeorgis, G.
01/03/2011 → 31/12/2014
Project

Ph.D. Advanced Course on Thermodynamic Models: Fundamentals & Computational Aspects
Kontogeorgis, G.
01/02/2011 → 30/11/2011
Project

Gas Hydrate Inhibition with Ice-Structuring Proteins
von Solms, N.
01/12/2010 → 30/05/2014
Project
CLEO Forskningsprojekt
Thomsen, K.
01/05/2010 → 31/12/2010
Project

CHIGP DONG
Kontogeorgis, G.
01/01/2010 → 31/03/2013
Project

Innovative CO2 Capture
von Solms, N.
01/01/2010 → 30/06/2014
Project

Measurements and Modeling of Thermodynamics of Organic Sulfur Species in Hydrocarbons and Pure Water
Awan, J.
01/01/2010 → 31/12/2012
Project

Complex Phase Behavior and Modeling of Multicomponent Mixtures Containing CO2
Kontogeorgis, G.
01/09/2009 → 01/06/2012
Project

ParPor - Particles in Pores. Stochastic Modeling of Polydisperse Transport
Shapiro, A.
01/09/2009 → 31/08/2012
Project

PhD Summer School
Shapiro, A.
01/01/2009 → 31/12/2015
Project

Smart Waterflooding in Carbonate Reservoirs
Zahid, A. & Thomsen, K.
01/01/2009 → 28/02/2012
Project

CHIGP BP
Kontogeorgis, G.
05/11/2004 → 31/12/2013
Project

CHIGP Statoil
Kontogeorgis, G.
03/07/2003 → 31/12/2014
Project

Activities:

Emulsion Formation for EOR Applications
Arshad, M. W. (Speaker)
14 Nov 2017 → 15 Nov 2017
Activity: Talks and presentations › Conference presentations

A new association scheme for mono-ethylene glycol within Cubic-Plus-Association equation of state
Kruger, F. (Guest lecturer)
19 May 2017
Activity: Talks and presentations › Conference presentations

Binary VLE of DEEA/H2O, MAPA/H2O and DEEA/MAPA SYSTEMS
Arshad, M. W. (Speaker)
5 Jun 2013
Activity: Talks and presentations › Conference presentations

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Kontogeorgis, G. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Mattei, M. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Gani, R. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Post Combustion CCS activities at Center for Energy Resources Engineering: DTU Climate Centre Seminar on CCS
Fosbøl, P. L. (Speaker)
22 Sep 2011
Activity: Talks and presentations › Conference presentations

Thermodynamic modeling of sour gas cleaning process with alkanolamine: Oral presentation at the 25th European Symposium on Applied Thermodynamics (ESAT), St.Petersburg, Russia
Sadegh, N. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

Thermodynamic modeling of sour gas cleaning process with alkanolamine: Oral presentation at the 25th European Symposium on Applied Thermodynamics (ESAT), St.Petersburg, Russia
Kontogeorgis, G. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

Thermodynamic modeling of sour gas cleaning process with alkanolamine: Presented at (oral presentation) CERE discussion meeting, Hillerød
Sadegh, N. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations

Thermodynamic modeling of sour gas cleaning process with alkanolamine: Presented at (oral presentation) CERE discussion meeting, Hillerød
Kontogeorgis, G. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations
Prizes:

*Idella foundation Research Travel Grant*
Edgar Luis Camacho Vergara (Recipient), 29 Jun 2017
Prize: Prizes, scholarships, distinctions