Application of a Crossover Equation of State to Describe Phase Equilibrium and Critical Properties of n-Alkanes and Methane/n-Alkane Mixtures
P. C. M. Vinhal, A., Yan, W. & Kontogeorgis, G. M. 2018 In : Journal of Chemical and Engineering Data. 63, p. 981-993
Publication: Research - peer-review › Journal article – Annual report year: 2018

A Three-Dimensional Model of Two-Phase Flows in a Porous Medium Accounting for Motion of the Liquid–Liquid Interface
Shapiro, A. A. 2018 In : Transport in Porous Media. 122, 3, p. 713-744
Publication: Research - peer-review › Journal article – Annual report year: 2018

Carbon capture innovation challenge
Publication: Research - peer-review › Report chapter – Annual report year: 2018

CO2 Mass transfer model for carbonic anhydrase-enhanced aqueous MDEA solutions
Publication: Research - peer-review › Journal article – Annual report year: 2018

Elasticity and electrical resistivity of chalk and greensand during water flooding with selective ions
Publication: Research - peer-review › Journal article – Annual report year: 2018

Estimation of Physical Properties of Amino Acids by Group-Contribution Method
Publication: Research - peer-review › Journal article – Annual report year: 2018

Experimental data of the aqueous NH3 and CO2 absorption at temperatures from 15 °C to 35 °C, NH3 concentrations from 5% to 15% and CO2 loadings from 0.2 to 0.6 measured with the Wetted Wall Column
Lillia, S., Bonalumi, D., Fosbøl, P. L., Thomsen, K. & Valenti, G. 2018 In : Data in Brief. 17, p. 1240-1244
Publication: Research - peer-review › Journal article – Annual report year: 2018

Experimental study of the aqueous CO2-NH3 rate of reaction for temperatures from 15°C to 35°C, NH3 concentrations from 5% to 15% and CO2 loadings from 0.2 to 0.6
Publication: Research - peer-review › Journal article – Annual report year: 2018

Extensive Study of the Capabilities and Limitations of the CPA and sPC-SAFT Equations of State in Modeling a Wide Range of Acetic Acid Properties
Publication: Research - peer-review › Journal article – Annual report year: 2018

Hydrate thermal dissociation behavior and dissociation enthalpies in methane-carbon dioxide swapping process
Mu, L. & von Solms, N. 2018 In : Journal of Chemical Thermodynamics. 117, p. 33-42
Publication: Research - peer-review › Journal article – Annual report year: 2018
eCPA: An ion-specific approach to parametrization
Publication: Research - peer-review › Journal article – Annual report year: 2017

Electrical Double-Layer and Ion Bridging Forces between Symmetric and Asymmetric Charged Surfaces in the Presence of Mono- and Divalent Ions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Energy Efficient Hybrid Gas Separation with Ionic Liquids
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Evaluation of equations of state for simultaneous representation of phase equilibrium and critical phenomena
Pinto Coelho Vinhal, A., Yan, W. & Kontogeorgis, G. 2017 In : Fluid Phase Equilibria. 437, p. 140-154
Publication: Research - peer-review › Journal article – Annual report year: 2017

Extension of modified RAND to multiphase flash specifications based on state functions other than (T,P)
Publication: Research - peer-review › Journal article – Annual report year: 2017

First Study of Poly(3-Methylene-2-Pyrrolidone) as a Kinetic Hydrate Inhibitor
Publication: Research - peer-review › Journal article – Annual report year: 2017

Flooding of North Sea chalk and greensand cores with specific brines
Publication: Research - peer-review › Poster – Annual report year: 2017

Freezing Point Determination of Water–Ionic Liquid Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2017

General approach for solving the density gradient theory in the interfacial tension calculations
Liang, X. & Michelsen, M. L. 2017 In : Fluid Phase Equilibria. 451, p. 79-90
Publication: Research - peer-review › Journal article – Annual report year: 2017

General approach to characterizing reservoir fluids for EoS models using a large PVT database
Publication: Research - peer-review › Journal article – Annual report year: 2016

High pressure phase equilibrium of ternary and multicomponent alkane mixtures in the temperature range from (283–473) K
Publication: Research - peer-review › Journal article – Annual report year: 2017

Improvement of predictive tools for vapor-liquid equilibrium based on group contribution methods applied to lipid technology
Publication: Research - peer-review › Journal article – Annual report year: 2017
Influence of temperature and solvent concentration on the kinetics of the enzyme carbonic anhydrase in carbon capture technology
Publication: Research - peer-review › Journal article – Annual report year: 2016

Kontogeorgis, G. 2017 In : Continuum Mechanics and Thermodynamics. 29, 6, p. 1415-1416
Publication: Communication › Literature review – Annual report year: 2017

Kinetic study of a Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation
Publication: Research - peer-review › Conference article – Annual report year: 2016

Methane Production and Carbon Capture by Hydrate Swapping
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modeling of Asphaltene Precipitation from Crude Oil with the Cubic Plus Association Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2017

Modeling Study of High Pressure and High Temperature Reservoir Fluids
Publication: Research › Ph.D. thesis – Annual report year: 2017

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

Operating considerations of ultrafiltration in enzyme enhanced carbon capture
Publication: Research - peer-review › Conference article – Annual report year: 2016

Phase Equilibrium Modeling for Shale Production Simulation
Publication: Research › Ph.D. thesis – Annual report year: 2017

Pilot absorption experiments with carbonic anhydrase enhanced MDEA
Publication: Research - peer-review › Conference article – Annual report year: 2016

Practical enhancement factor model based on GM for multiple parallel reactions: Piperazine (PZ) CO₂ capture
Publication: Research - peer-review › Journal article – Annual report year: 2016

Prediction of Gas Injection Effect on Asphaltene Precipitation Onset Using the Cubic and Cubic-Plus-Association Equations of State
Publication: Research - peer-review › Journal article – Annual report year: 2017

Property Model-Based Chemical Substitution and Chemical Formulation Design
Prospects of the use of nanofluids as working fluids for organic Rankine cycle power systems

Publisher's Note to Modeling the influence of potassium content and heating rate on biomass pyrolysis [Appl. Energy J. 194 (2017) 199–211]

Rate-based modelling and validation of a pilot absorber using MDEA enhanced with carbonic anhydrase (CA)

Simultaneous Description of Activity Coefficients and Solubility with eCPA

Solubility Modeling of the Systems Ni(NO₃)₂·H₂O and Fe(NO₃)₃·Ni(NO₃)₂·H₂O with the Extended Universal Quasichemical (UNIQUAC) Model
Arrad, M., Kaddami, M., El Goundali, B. & Thomsen, K. 2017 In : Journal of Solution Chemistry. 46, 6, p. 1220–1229

Thermodynamic Analysis of Chalk–Brine–Oil Interactions

Thermodynamic modelling of acid gas removal from natural gas using the Extended UNIQUAC model
Sadegh, N., Stenby, E. H. & Thomsen, K. 2017 In : Fluid Phase Equilibria. 442, p. 38-43

Towards the understanding of microbial metabolism in relation to microbial enhanced oil recovery

Uncertainty Analysis for the Parameterization of Glycols
Kruger, F. 2017

Upscaling of enzyme enhanced CO₂ capture

Water-Oil Emulsions with Fines in Smart Water Enhanced Oil Recovery
A collocation method for surface tension calculations with the density gradient theory
Larsen, P. M., Maribo-Mogensen, B. & Kontogeorgis, G. M. 2016 In : Fluid Phase Equilibria. 408, p. 170-179
Publication: Research - peer-review › Journal article – Annual report year: 2015

A comment on water's structure using monomer fraction data and theories
Publication: Research - peer-review › Journal article – Annual report year: 2015

A density gradient theory based method for surface tension calculations
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Experimental and Theoretical Study of CO2 Hydrate Formation Systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Application of various water soluble polymers in gas hydrate inhibition
Publication: Research - peer-review › Journal article – Annual report year: 2016

Carbonic Anhydrase Enhanced Carbon Capture: Kinetic Measurements and Pilot Plant Trials
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Controllability and flexibility analysis of CO2 post-combustion capture using piperazine and MEA
Publication: Research - peer-review › Journal article – Annual report year: 2016

CO2 Capture Dynamic and Steady-State Model Development, Optimization and Control: Applied to Piperazine and Enzyme Promoted MEA/MDMEA
Publication: Research › Ph.D. thesis – Annual report year: 2016

CO2 capture. Two new structures in the 2-amino-2-methyl-1-propanol (AMP) – water – CO2 system
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Density and phase equilibrium of the binary system methane + n-decane under high temperatures and pressures
Regueira Muñiz, T., Pantelide, G., Yan, W. & Stenby, E. H. 2016 In : Fluid Phase Equilibria. 428, p. 48-61
Publication: Research - peer-review › Journal article – Annual report year: 2016

Determining optimum aging time using novel core flooding equipment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Dynamic Operation and Simulation of Post-Combustion CO2 Capture
Publication: Research - peer-review › Conference article – Annual report year: 2016

Dynamic simulation and analysis of a pilot-scale CO2 post-combustion capture unit using piperazine and MEA
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

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

Enzymes in CO2 Capture
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Evaluation of the Cubic-Plus-Association Equation of State for Ternary, Quaternary, and Multicomponent Systems in the Presence of Monoethylene Glycol
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

Hydrate equilibrium data for the CO2 + N2 system with the use of tetra-n-butylammonium bromide (TBAB), cyclopentane (CP) and their mixture
Publication: Research - peer-review › Journal article – Annual report year: 2015

Introduction to Applied Colloid and Surface Chemistry
Publication: Education - peer-review › Book – Annual report year: 2016

Investigation of the Gas Injection Effect on Asphalten Onset Precipitation Using the Cubic-Plus-Association Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2015

Irreversible Change of the Pore Structure of ZIF-8 in Carbon Dioxide Capture with Water Coexistence
Publication: Research - peer-review › Journal article – Annual report year: 2016

Low immediate scientific yield of the PhD among medical doctors
Publication: Research - peer-review › Journal article – Annual report year: 2016

Measurement of properties and pilot testing. CERE lab and model development
Fosbøl, P. L. 2016
Publication: Research - peer-review › Poster – Annual report year: 2016
Mechanics of the Separating Surface for a Two-Phase Co-current Flow in a Porous Medium
Shapiro, A. A. 2016 In : Transport in Porous Media. 112, 2, p. 489-517
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modeling derivative properties and binary mixtures with CO₂ using the CPA and the quadrupolar CPA equations of state
Bjørner, M. G. & Kontogeorgis, G. 2016 In : Fluid Phase Equilibria. 408, p. 151-169
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modeling of Asphaltene Onset Precipitation Conditions with Cubic Plus Association (CPA) and Perturbed Chain Statistical Associating Fluid Theory (PC-SAFT) Equations of State
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modeling of phase equilibrium of North Sea oils with water and MEG
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modeling systems relevant to the biodiesel production using the CPA equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modelling of Salt Solubilities for Smart Water flooding in Carbonate Reservoirs using Extended UNIQUAC Model
Publication: Research › Ph.D. thesis – Annual report year: 2016

Modelling phase equilibria for acid gas mixtures using the CPA equation of state. Part VI. Multicomponent mixtures with glycols relevant to oil and gas and to liquid or supercritical CO₂ transport applications
Tsivintzelis, I. & Kontogeorgis, G. M. 2016 In : Journal of Chemical Thermodynamics. 93, p. 305-319
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modelling the phase equilibria of multicomponent mixtures containing CO₂, alkanes, water, and/or alcohols using the quadrupolar CPA equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2016

Multivariable Optimization of the Piperazine CO₂ Post-Combustion Process
Publication: Research - peer-review › Journal article – Annual report year: 2016

Operation and Design of Diabatic Distillation Processes
Publication: Research › Ph.D. thesis – Annual report year: 2016

Optimizing integrated reference cases in the OCTAVIUS project
Publication: Research - peer-review › Journal article – Annual report year: 2016

Phase Equilibrium Measurements and Modeling of 1-Propanethiol+1-Butanethiol + CH₄ in Methane Ternary System at 303, 338, and 368 K and Pressure Up to 9 MPa
Awan, J. A., Coquelet, C., Tsivintzelis, I. & Kontogeorgis, G. 2016 In : Journal of Chemical and Engineering Data. 61, 1, p. 41-44
Publication: Research - peer-review › Journal article – Annual report year: 2016
Phase equilibrium of North Sea oils with polar chemicals: Experiments and CPA modeling
Publication: Research - peer-review › Journal article – Annual report year: 2015

Pitfalls of using the geometric-mean combining rule in the density gradient theory
Liang, X., Michelsen, M. L. & Kontogeorgis, G. 2016 In : Fluid Phase Equilibria. 141, p. 75-83
Publication: Research - peer-review › Journal article – Annual report year: 2016

Prediction and experimental determination of the solubility of exotic scales at high temperatures - Zinc sulfide
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Prediction and experimental determination of the solubility of exotic scales at high temperatures - Zinc sulfide
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Prediction and experimental determination of the solubility of exotic scales at high temperatures - Zinc sulfide
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Predicitive screening of ionic liquids for dissolving cellulose and experimental verification
Publication: Research - peer-review › Journal article – Annual report year: 2016

Probe the Binding Mode of Aristololactam-β-D-glucoside to Phenylalanine Transfer RNA in Silico
Xiao, X., Zhao, B., Yang, L., Liang, X. & Ren, Y. 2016 In : ChemistrySelect. 1, 17, p. 5430-5439
Publication: Research - peer-review › Journal article – Annual report year: 2016

Property Model-based Tailor-made Design of Chemical-based Products
Publication: Research › Ph.D. thesis – Annual report year: 2016

Simulation and multivariable optimization of post-combustion capture using piperazine
Publication: Research - peer-review › Journal article – Annual report year: 2016

Solubility Measurements and Modeling of Zinc, Lead and Iron Sulfides at High Temperatures and High Pressures
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Solubility Modeling of the Binary Systems Fe(NO₃)₃–H₂O, Co(NO₃)₂–H₂O and the Ternary System Fe(NO₃)₃–Co(NO₃)₂–H₂O with the Extended Universal Quasichemical (UNIQUAC) Model
Arrad, M., Kaddami, M., Goundali, B. E. & Thomsen, K. 2016 In : Journal of Solution Chemistry. 45, 4, p. 534-545
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Phase Envelope of Multicomponent Mixtures in the Presence of a Capillary Pressure Difference
Publication: Research - peer-review › Journal article – Annual report year: 2016

Thermodynamic modeling of CO₂ mixtures
Publication: Research › Ph.D. thesis – Annual report year: 2016

Thermodynamic modeling of liquid-liquid phase change solvents for CO₂ capture
Publication: Research - peer-review › Journal article – Annual report year: 2016
Thermodynamics 2015 Conference Copenhagen, Denmark, 15-18 September 2015
Economou, I. G. & Kontogeorgis, G. 2016 In : Molecular Physics. 114, 18, p. 2569-2573
Publication: Research - peer-review › Editorial – Annual report year: 2016

Uncertainty analysis of the CPA and a quadrupolar CPA equation of state - With emphasis on CO2
Bjørner, M. G., Sin, G. & Kontogeorgis, G. M. 2016 In : Fluid Phase Equilibria. 414, p. 29-47
Publication: Research - peer-review › Journal article – Annual report year: 2016

A dynamic mathematical model for packed columns in carbon capture plants
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A general enhancement factor model for absorption and desorption systems: A CO2 capture case-study
Publication: Research - peer-review › Journal article – Annual report year: 2016

A general enhancement factor model for absorption and desorption systems: A CO2 capture case-study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A general enhancement factor model for absorption and desorption systems: A CO2 capture case-study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

An electrolyte CPA equation of state for mixed solvent electrolytes
Publication: Research - peer-review › Journal article – Annual report year: 2015

Brine crude oil interactions at the oil-water interface
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Characterization Scheme for Property Prediction of Fluid Fractions Originating from Biomass
Nguyen, T-B., de Hemptinne, J-C., Creton, B. & Kontogeorgis, G. M. 2015 In : Energy and Fuels. 29, 11, p. 7230−7241
Publication: Research - peer-review › Journal article – Annual report year: 2015

Control of a post-combustion CO2 capture plant during process start-up and load variations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Control of a post-combustion CO2 capture plant during process start-up and load variations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Cubic Plus Association Equation of State for Flow Assurance Projects
Publication: Research - peer-review › Journal article – Annual report year: 2015

Densities of the Binary Systems n-Hexane + n-Decane and n-Hexane + n-Hexadecane up to 60 MPa and 463 K
Regueira, T., Yan, W. & Stenby, E. H. 2015 In : Journal of Chemical and Engineering Data. 60, 12, p. 3631-3645
Publication: Research - peer-review › Journal article – Annual report year: 2015

Determination of asphaltene onset conditions using the cubic plus association equation of state
Arya, A., von Solms, N. & Kontogeorgis, G. M. 2015 In : Fluid Phase Equilibria. 400, p. 8-19
Publication: Research - peer-review › Journal article – Annual report year: 2015

Experimental validation of kinetic inhibitor strength on natural gas hydrate nucleation
Publication: Research - peer-review › Journal article – Annual report year: 2015
Extracurricular scientific production among medical students has increased in the past decade
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fine Formation During Brine-Crude Oil-Calcite Interaction in Smart Water Enhanced Oil Recovery for Caspian Carbonates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Formation of Anhydrite due to Interaction Between Water Soluble CO$_2$ (aq) and Calcite Mineral During Enhanced Oil Recovery
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Importance of fines in smart water enhanced oil recovery (SmW-EOR) for chalk outcrops
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Influence of different SSF conditions on ethanol production from corn stover at high solids loadings
Publication: Research - peer-review › Journal article – Annual report year: 2016

Interactions of fines with base fractions of oil and its implication in smart water flooding
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

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

Measurement of vapor-liquid-liquid phase equilibrium-Equipment and results
Frost, M. G., von Solms, N., Richon, D. & Kontogeorgis, G. M. 2015 In : Fluid Phase Equilibria. 405, p. 88-95
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modeling MEA with the CPA equation of state: A parameter estimation study adding local search to PSO algorithm
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

Modeling of Salinity Effects on Waterflooding of Petroleum Reservoirs
Publication: Research › Ph.D. thesis – Annual report year: 2016

Modeling phase equilibria for acid gas mixtures using the CPA equation of state. Part IV. Applications to mixtures of CO$_2$ with alkanes
Publication: Research - peer-review › Journal article – Annual report year: 2015
Modeling the binary system Mn(NO₃)₂-H₂O with the extended universal quasichemical (UNIQUAC) model
Arrad, M. Kaddami, M., Maous, J. & Thomsen, K. 2015 In : Fluid Phase Equilibria. 397, p. 126-130
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modeling the liquid-liquid equilirbrium of petroleum fluid and polar compounds containing systems with the PC-SAFT equation of state
Liang, X., Yan, W., Thomsen, K. & Kontogeorgis, G. M. 2015 In : Fluid Phase Equilibria. 406, p. 147-155
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modeling Water Saturation Points in Natural Gas Streams Containing CO₂ and H₂S-Comparisons with Different Equations of State
Publication: Research - peer-review › Journal article – Annual report year: 2015

Modelling phase equilibria for acid gas mixtures using the CPA equation of state. Part V: Multicomponent mixtures containing CO₂ and alcohols
Tsivintzelis, I. & Kontogeorgis, G. M. 2015 In : Journal of Supercritical Fluids. 104, p. 29-39
Publication: Research - peer-review › Journal article – Annual report year: 2015

Monte Carlo reservoir analysis combining seismic reflection data and informed priors
Zunino, A., Mosegaard, K., Lange, K., Melnikova, Y. & Hansen, T. M. 2015 In : Geophysics. 80, 1, p. R31-R41
Publication: Research - peer-review › Journal article – Annual report year: 2015

Multicomponent Adsorption Model for Polar and Associating Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2015

Natural gas hydrate formation and inhibition in gas/crude oil/aqueous systems
Publication: Research - peer-review › Journal article – Annual report year: 2015

New Variant of the Universal Constants in the Perturbed Chain-Statistical Associating Fluid Theory Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2015

Oil and gas pipelines with hydrophobic surfaces better equipped to deal with gas hydrate flow assurance issues
Publication: Research - peer-review › Journal article – Annual report year: 2015

On the viscosity of two 1-butyl-1-methylpyrrolidinium ionic liquids: effect of the temperature and pressure
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

Phase Envelope Calculations for Reservoir Fluids in the Presence of Capillary Pressure
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Pressure dependence of the solubility of light fullerenes in 1-hexanol from 298.15 K to 363.15 K
Publication: Research - peer-review › Journal article – Annual report year: 2015

Profiling of Indigenous Microbial Community Dynamics and Metabolic Activity During Enrichment in Molasses-Supplemented Crude Oil-Brine Mixtures for Improved Understanding of Microbial Enhanced Oil Recovery
Publication: Research - peer-review › Journal article – Annual report year: 2015

PVT modeling of reservoir fluids using PC-SAFT EoS and Soave-BWR EoS
Yan, W., Varzandeh, F. & Stenby, E. H. 2015 In : Fluid Phase Equilibria. 386, p. 96-124
Publication: Research - peer-review › Journal article – 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

Risk Associated With The Decompression Of High Pressure High Temperature Fluids - Study On Black Oil
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Solubility of hydrogen sulfide in aqueous solutions of N-methyldiethanolamine at high pressures
Publication: Research - peer-review › Journal article – 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

Testing antifreeze protein from the longhorn beetle Rhagium mordax as a kinetic gas hydrate inhibitor using a high-pressure micro differential scanning calorimeter
Daraboina, N., Perfeldt, C. M. & von Solms, N. 2015 In : Canadian Journal of Chemistry. 93, 9, p. 1025-1030
Publication: Research - peer-review › Journal article – Annual report year: 2015

The combined effect of thermodynamic promoters tetrahydrofuran and cyclopentane on the kinetics of flue gas hydrate formation
Daraboina, N. & von Solms, N. 2015 In : Journal of Chemical and Engineering Data. 60, 2, p. 247-251
Publication: Research - peer-review › Journal article – Annual report year: 2015

Thermodynamic modeling of CO₂ absorption in aqueous N-Methyldiethanolamine using Extended UNIQUAC model
Publication: Research - peer-review › Journal article – Annual report year: 2015

Thermodynamic modeling of hydrogen sulfide absorption by aqueous N-methyldiethanolamine using the Extended UNIQUAC model
Publication: Research - peer-review › Journal article – Annual report year: 2015
The role of chemical engineering in medicinal research including Alzheimer's
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Shapiro, A. 2015 In : Transport in Porous Media. 107, 2, p. 335-363
Publication: Research - peer-review › Journal article – Annual report year: 2015

A Comprehensive Framework for Surfactant Selection and Design for Emulsion Based Chemical Product Design
Publication: Research - peer-review › Journal article – Annual report year: 2013

Addition of malodorants to lighter gas: The phase equilibrium properties of mixtures of lighter gas and selected substances
Neela, V. & von Solms, N. 2014 In : Chemical Engineering Research & Design. 92, p. 2851-2860
Publication: Research - peer-review › Journal article – Annual report year: 2015

Advances in thermodynamics for chemical process and product design
Economou, I., Kontogeorgis, G., Dohrn, R. & de Hemptinne, J-C. 2014 In : Chemical Engineering Research & Design. 92, 12, p. 2793-2794
Publication: Research › Editorial – Annual report year: 2015

A low energy aqueous ammonia CO₂ capture process
Publication: Research - peer-review › Conference article – Annual report year: 2015

A new aqueous activity model for geothermal brines in the system Na-K-Ca-Mg-H-Cl-SO₄-H₂O from 25 to 300 degrees C
Publication: Research - peer-review › Journal article – Annual report year: 2014

An Integrated Methodology for Emulsified Formulated Product Design
Mattei, M., Gani, R. & Kontogeorgis, G. 2014 Technical University of Denmark, Department of Chemical and Biochemical Engineering. 192 p.
Publication: Research › Ph.D. thesis – Annual report year: 2014

Antifreeze activity enhancement by site directed mutagenesis on an antifreeze protein from the beetle Rhagium mordax.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Benchmarking and comparing first and second generation post combustion CO2 capture technologies
Publication: Research - peer-review › Conference article – Annual report year: 2015

Compressibilities and viscosities of reference, vegetable, and synthetic gear lubricants
Publication: Research - peer-review › Journal article – Annual report year: 2014

Crossflow and water banks in viscous dominant regimes of waterflooding
Publication: Research - peer-review › Journal article – Annual report year: 2014
Crystallization Kinetics within a Generic Modeling Framework
Meisler, K. T., von Solms, N., Gernaey, K. V. & Gani, R. 2014 In : Chemical Engineering and Technology. 37, 8, p. 1383-1392
Publication: Research - peer-review › Journal article – Annual report year: 2014

Development and analysis of the Original UNIFAC-CI model for prediction of vapor–liquid and solid–liquid equilibria
Publication: Research - peer-review › Journal article – Annual report year: 2014

Development of a LSSVM-GC model for estimating the electrical conductivity of ionic liquids
Publication: Research - peer-review › Journal article – Annual report year: 2014

Development of an Electrolyte CPA Equation of state for Applications in the Petroleum and Chemical Industries
Maribo-Mogensen, B., Kontogeorgis, G. & Thomsen, K. 2014 Technical University of Denmark, Department of Chemical and Biochemical Engineering. 296 p.
Publication: Research › Ph.D. thesis – Annual report year: 2014

Distribution of gas hydrate inhibitor monoethylene glycol in condensate and water systems: Experimental measurement and thermodynamic modeling using the cubic-plus-association equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2014

Enzymatically Assisted CO2 Removal from Flue-Gas
Publication: Research - peer-review › Conference article – Annual report year: 2014

Equilibrium Solubility of CO2 in Alkanolamines
Publication: Research - peer-review › Conference article – Annual report year: 2015

Equilibrium Total Pressure and CO2 Solubility in Binary and Ternary Aqueous Solutions of 2-(Diethylamino)ethanol (DEEA) and 3-(Methylamino)propylamine (MAPA)
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

From abstract to peer-reviewed publication: country matters
Publication: Research - peer-review › Journal article – Annual report year: 2014

History Matching with Geostatistical Prior: A Smooth Formulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Impact of soil amendments and the plant rhizosphere on PAH behaviour in soil
On solving the Rachford-Rice equation with higher order methods
Publication: Research - peer-review › Journal article – Annual report year: 2014

On the predictive capabilities of CPA for applications in the chemical industry: Multicomponent mixtures containing methylmethacrylate, dimethyl-ether or acetic acid
Tsivintzelis, I. & Kontogeorgis, G. 2014 In : Chemical Engineering Research & Design. 92, 12, p. 2947-2969
Publication: Research - peer-review › Journal article – Annual report year: 2015

Permeability, diffusivity and solubility of carbon dioxide in fluoropolymers: An experimental and modeling study
Publication: Research - peer-review › Journal article – Annual report year: 2014

Simulations of Microbial-Enhanced Oil Recovery: Adsorption and Filtration
Nielsen, S. M., Nesterov, I. & Shapiro, A. 2014 In : Transport in Porous Media. 102, p. 227-259
Publication: Research - peer-review › Conference article – Annual report year: 2014

Solid formation in piperazine rate-based simulation
Publication: Research - peer-review › Conference article – Annual report year: 2015

Synthetic methods in phase equilibria: A new apparatus and error analysis of the method
Fonseca, J. & von Solms, N. 2014 In : Journal of Supercritical Fluids. 86, p. 49-56
Publication: Research - peer-review › Journal article – Annual report year: 2014

Thermodynamic modeling of complex systems
Liang, X., Kontogeorgis, G., Thomsen, K. & Yan, W. 2014 Technical University of Denmark, Department of Chemical and Biochemical Engineering. 287 p.
Publication: Research › Ph.D. thesis – Annual report year: 2015

The role of monomer fraction data in association theories—Can we improve the performance for phase equilibrium calculations?
Tsivintzelis, I., Bøgh, D., Karakatsani, E. & Kontogeorgis, G. 2014 In : Fluid Phase Equilibria. 365, p. 112-122
Publication: Research - peer-review › Journal article – Annual report year: 2014

The Virtual Product-Process Design Lab
Kalakul, S., Kontogeorgis, G. & Gani, R. 2014
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

The Virtual Product-Process Design Laboratory for Structured Chemical Product Design and Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Vapor-Liquid Equilibrium of Methane with Water and Methanol. Measurements and Modeling
Publication: Research - peer-review › Journal article – Annual report year: 2013
VPPD Lab – A Computer Aided Tool for Product-Process Design
Kalakul, S., Kontogeorgis, G. & Gani, R. 2014
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Acid Gas Removal from Natural Gas with Alkanolamines: A Modeling and Experimental Study
Publication: Research › Ph.D. thesis – Annual report year: 2013

A Comparative Study of Reduced-Variables-Based Flash and Conventional Flash
Publication: Research - peer-review › Journal article – Annual report year: 2013

A new pilot absorber for CO2 capture from flue gases: Measuring and modelling capture with MEA solution
Publication: Research - peer-review › Journal article – Annual report year: 2013

Application of the cubic-plus-association (CPA) equation of state to model the fluid phase behaviour of binary mixtures of water and tetrahydrofuran
Publication: Research - peer-review › Journal article – Annual report year: 2013

Association models for petroleum applications
Publication: Research - peer-review › Journal article – Annual report year: 2013

An Implementation of the Frequency Matching Method
Publication: Research › Report – Annual report year: 2013

Binary and ternary VLE of the 2-(diethylamino)-ethanol (DEEA)/ 3-(methylamino)-propylamine (MAPA)/ water system
Publication: Research - peer-review › Journal article – Annual report year: 2013

Binary and ternary VLE of the 2-(diethylamino)-ethanol (DEEA)/ 3-(methylamino)-propylamine (MAPA)/ water system
Publication: Research - peer-review › Journal article – Annual report year: 2013

BINARY VLE of DEEA/H2O, MAPA/H2O and DEEA/MAPA SYSTEMS
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Capabilities and limitations of predictive engineering theories for multicomponent adsorption
Bartholdy, S., Bjørner, M. G., Solbraa, E., Shapiro, A. & Kontogeorgis, G. 2013 In : Industrial & Engineering Chemistry Research. 52, 33, p. 11562-11563
Creep measurements confirm steady flow after stress maximum in extension of branched polymer melts

Crystallization Kinetics within a Generic Modelling Framework

Design of an Emulsion-based Personal Detergent through a Model-based Chemical Product Design Methodology

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Mattei, M., Krogh, P., Depner, B., Kontogeorgis, G. & Gani, R. 2013

Development of a New Comprehensive Framework for Surfactant Selection and Design for Emulsion-based Chemical Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2013

Distribution of MEG and methanol in well-defined hydrocarbon and water systems: Experimental measurement and modeling using the CPA EoS

Equilibrium Solubility of CO2 in Alkanolamines
Evaluation of the PC-SAFT, SAFT and CPA equations of state in predicting derivative properties of selected non-polar and hydrogen-bonding compounds

Publication: Research - peer-review › Journal article – Annual report year: 2013

Experimental determination and modeling of the phase behavior for the direct synthesis of dimethyl carbonate from methanol and carbon dioxide

tSivintzelis, I., Musko, N. E., Baiker, A., Grunwaldt, J-D. & Kontogeorgis, G. 2013 In : Journal of Supercritical Fluids. 84, p. 155-163
Publication: Research - peer-review › Journal article – Annual report year: 2013

Factors Impacting the Conversion of Abstracts Presented at the Canadian Cardiovascular Congress Meetings to Full Publications

Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Fluid phase equilibria during propylene carbonate synthesis from propylene oxide in carbon dioxide medium

Gharnati, L., Musko, N., Jensen, A. D., Kontogeorgis, G. & Grunwaldt, J-D. 2013 In : Journal of Supercritical Fluids. 82, p. 106-115
Publication: Research - peer-review › Journal article – Annual report year: 2013

Freezing Point Depressions of Phase Change CO2 Solvents

Publication: Research - peer-review › Journal article – Annual report year: 2013

GC-PPC-SAFT equation of state for VLE and LLE of hydrocarbons and oxygenated compounds. Sensitivity analysis

Nguyen, T-B., De Hemptinne, J-C., Creton, B. & Kontogeorgis, G. M. 2013 In : Industrial and Engineering Chemistry Research. 52, 21, p. 7014-7029
Publication: Research - peer-review › Journal article – Annual report year: 2012

Heat of Absorption of CO2 in Aqueous Solutions of DEEA, MAPA and their Mixture

Publication: Research - peer-review › Conference article – Annual report year: 2013

Heat of Absorption of CO2 in Phase Change Solvents: 2-(Diethylamino)ethanol and 3-(Methylamino)propylamine

Publication: Research - peer-review › Journal article – Annual report year: 2013

Heterogeneously Catalysed Chemical Reactions in Carbon Dioxide Medium

Publication: Research › Ph.D. thesis – 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

Investigation of Kinetic Hydrate Inhibition Using a High Pressure Micro Differential Scanning Calorimeter

Publication: Research - peer-review › Journal article – Annual report year: 2013
Liquid–liquid equilibria for reservoir fluids+monoethylene glycol and reservoir fluids+monoethylene glycol+water: Experimental measurements and modeling using the CPA EoS
Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling of Dielectric Properties of Aqueous Salt Solutions with an Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling of dielectric properties of complex fluids with an equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling of the Critical Micelle Concentration (CMC) of Nonionic Surfactants with an Extended Group-Contribu
Mattei, M., Kontogeorgis, G. & Gani, R. 2013 In : Industrial & Engineering Chemistry Research. 52, p. 12236−12246
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
Halim, A. Y., Pedersen, D. S., Eliasson Lantz, A., Nielsen, S. M. & Shapiro, A. 2013
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

Online measurement of mass density and viscosity of pL fluid samples with suspended microchannel resonator
Publication: Research - peer-review › Journal article – Annual report year: 2013

Potential theory of adsorption for associating mixtures: possibilities and limitations
Bjørner, M. G., Shapiro, A. & Kontogeorgis, G. 2013 In : Industrial & Engineering Chemistry Research. 52, 7, p. 2672-2684
Publication: Research - peer-review › Journal article – Annual report year: 2012

Predicting Surfactant-related Properties for Chemical-based Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Prediction of thermo-physical properties of liquid formulated products
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Prediction of the vapor–liquid equilibria and speed of sound in binary systems of 1-alkanols and n-alkanes with the simplified PC-SAFT equation of state
Liang, X., Thomsen, K., Yan, W. & Kontogeorgis, G. 2013 In : Fluid Phase Equilibria. 360, p. 222-232
Publication: Research - peer-review › Journal article – Annual report year: 2013

Rate and Predictors of the Conversion of Abstracts Presented at the Canadian Cardiovascular Congress Scientific Meetings to Full Peer-Reviewed Publications
Response to Letters Regarding Article, "Conversion of Cardiovascular Conference Abstracts to Publications"

Solving inverse problems through a smooth formulation of multiple-point geostatistics

Speeding up compositional reservoir simulation through an efficient implementation of phase equilibrium calculation

Study of Crystallization Kinetics Within a Generic Modelling Framework

Study on the Application of the Tie-Line-Table-Look-Up-Based Methods to Flash Calculations in Compositional Simulations
Yan, W., Belkadi, A., Michelsen, M. L. & Stenby, E. H. 2013 In : SPE Journal. 18, 5, p. 932-942

Synergistic kinetic inhibition of natural gas hydrate formation

The Effect of Bacteria Penetration on Chalk Permeability
Halim, A. Y., Shapiro, A., Nielsen, S. M. & Eliasson Lantz, A. 2013

Thermodynamic Modeling of Natural Gas Systems Containing Water
Karakatsani, E. K. & Kontogeorgis, G. M. 2013 In : Industrial & Engineering Chemistry Research. 52, 9, p. 3499-3513

Thermodynamic promotion of carbon dioxide-clathrate hydrate formation by tetrahydrofuran, cyclopentane and their mixtures

Thermodynamics of Phase Change Solvents
Waseem Arshad, M., Thomsen, K., von Solms, N. & Svendsen, H. F. 2013

Use of Water-Oil-Surfactant System Phase Behavior Data/Model for Emulsion-based Chemical Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2013

Vapor-Liquid Equilibrium of CO2 with Aqueous Solutions of DEEA, MAPA and their Mixture
A Systematic Methodology for Design of Emulsion Based Chemical Products
Mattei, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research › Article in proceedings – Annual report year: 2012

Calculation of minimum miscibility pressure using fast slimtube simulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Capabilities and Limitations of an Association Theory for Chemicals in Liquid or Supercritical Solvents
Publication: Research - peer-review › Journal article – Annual report year: 2012

Comparison of two electrolyte models for the carbon capture with aqueous ammonia
Publication: Research - peer-review › Journal article – Annual report year: 2012

Comparison of the Debye–Hückel and the Mean Spherical Approximation Theories for Electrolyte Solutions
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Development and Analysis of Original UNIFAC-CI and Modified UNIFAC-CI Models for Prediction of VLE and SLE Systems
Publication: Research › Conference abstract for conference – Annual report year: 2012

Crystallization Kinetics Identification within a Generic Modeling Framework
Publication: Research › Conference abstract for conference – Annual report year: 2012

Design of an Emulsified Hand Wash Through a Systematic Model-Based Methodology
Mattei, M., Hill, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Development and testing of a new apparatus for the measurement of high-pressure low-temperature phase equilibria
Publication: Research - peer-review › Journal article – Annual report year: 2012
Development of a group contribution method for determination of viscosity of ionic liquids at atmospheric pressure
Publication: Research - peer-review › Journal article – Annual report year: 2012

Diagnosis of asphaltene stability in crude oil through "two parameters" SVM model
Publication: Research - peer-review › Journal article – Annual report year: 2012

Efficient Iterated Filtering
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Equation of state modelling of systems with ionic liquids: Literature review and application with the Cubic Plus Association (CPA) model
Maia, F. M., Tsivintzelis, I., Rodriguez, O., Macedo, E. A. & Kontogeorgis, G. 2012 In : Fluid Phase Equilibria. 332, p. 128-143
Publication: Research - peer-review › Journal article – Annual report year: 2012

Erratum to: Transport properties of natural gas through polyethylene nanocomposites at high temperature and pressure
Publication: Research - peer-review › Journal article – Annual report year: 2012

Estimating filtration coefficients for straining from percolation and random walk theories
Publication: Research - peer-review › Journal article – Annual report year: 2012

Experimental studies of low salinity water flooding in carbonate reservoirs: A new promising approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Experimental study and phase equilibrium modeling of systems containing acid gas and glycol
Publication: Research - peer-review › Journal article – Annual report year: 2012

Fluid phase equilibria of the reaction mixture during the selective hydrogenation of 2-butenal in dense carbon dioxide
Publication: Research - peer-review › Journal article – Annual report year: 2012
Framework for the analysis of crystallization operations
Meisler, K. T., Abdul Samad, N. A. F. B., Gernaey, K., von Solms, N. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Gravity Effect on Two-Phase Immiscible Flows in Communicating Layered Reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2012

Higher alcohols synthesis from syngas over carbon-nanotube supported Iron-Chromium catalysts
Publication: Research › Conference abstract for conference – Annual report year: 2012

Improving multiple-point-based a priori models for inverse problems by combining Sequential Simulation with the Frequency Matching Method
Cordua, K. S., Hansen, T. M., Lange, K., Frydendall, J. & Mosegaard, K. 2012
Publication: Research - peer-review › Paper – Annual report year: 2012

Kinetics of absorption of carbon dioxide into aqueous potassium salt of proline
Publication: Research - peer-review › Journal article – Annual report year: 2012

Managing Injected Water Composition To Improve Oil Recovery: A Case Study of North Sea Chalk Reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2012

Measurement and Modelling of the Piperazine Potassium Carbonate Solutions for CO2 Capture
Fosbøl, P. L., Thomsen, K. & Wassem Arshad, M. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Novel self-associative and multiphase nanostructured soft carriers based on amphiphilic hyaluronic acid derivatives
Publication: Research - peer-review › Journal article – Annual report year: 2012

Optimisation of Oil Production in Two – Phase Flow Reservoir Using Simultaneous Method and Interior Point Optimiser
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Particles in Pores: Stochastic Modeling of Polydisperse Transport
Publication: Research › Ph.D. thesis – Annual report year: 2012

Phase Equilibria of Three Binary Mixtures: Methanethiol + Methane, Methanethiol + Nitrogen, and Methanethiol + Carbon Dioxide
Awan, J., Tsivintzelis, I., Coquelet, C. & Kontogeorgis, G. 2012 In : Journal of Chemical and Engineering Data. 57, p. 896-901
Publication: Research - peer-review › Journal article – Annual report year: 2012

Phase equilibrium modeling of gas hydrate systems for CO2 capture
Herslund, P. J., Thomsen, K., Abildskov, J. & von Solms, N 2012 In : Journal of Chemical Thermodynamics. 48, p. 13-27
Publication: Research - peer-review › Journal article – Annual report year: 2012
Process simulation of CO$_2$ capture with aqueous ammonia using the Extended UNIQUAC model
Publication: Research - peer-review › Journal article – Annual report year: 2012

Property Prediction for Emulsion based Chemical Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Property Prediction for Emulsion based Chemical Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research › Poster – Annual report year: 2012

Quantitative structure—property relationship for thermal decomposition temperature of ionic liquids
Publication: Research - peer-review › Journal article – Annual report year: 2012

Selective oxidation of benzyl alcohol in dense CO2: Insight by phase behavior modeling
Beier, M. J., Grunwaldt, J.-D., Tsivintzelis, I., Jensen, A. D., Kontogeorgis, G. M. & Baiker, A. 2012 In : Journal of Supercritical Fluids. 63, p. 199-207
Publication: Research - peer-review › Journal article – Annual report year: 2012

Solids Modelling and Capture Simulation of Piperazine in Potassium Solvents
Fosbøl, P. L., Maribo-Møgensen, B. & Thomsen, K. 2012 In : Energy Procedia. 37, p. 844-859
Publication: Research - peer-review › Conference article – Annual report year: 2012

Solubilities of ferrocene and acetylferrocene in supercritical carbon dioxide
Kazemi, S., Belandria, V., Janssen, N., Richon, D., Peters, C. J. & Kroon, M. C. 2012 In : Journal of Supercritical Fluids. 72, p. 320-325
Publication: Research - peer-review › Journal article – Annual report year: 2012

Systematic identification of crystallization kinetics within a generic modelling framework
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

The Conversion of Cardiovascular Conference Abstracts to Publications
Publication: Research - peer-review › Journal article – Annual report year: 2012

The effect of pressure on the phase behavior of surfactant systems: An experimental study
Publication: Research - peer-review › Journal article – Annual report year: 2012

Thermally induced permeability reduction due to particle migration in sandstones: the effect of temperature on kaolinite mobilisation and aggregation
Publication: Research › Article in proceedings – Annual report year: 2012
Thermodynamically based solvent design for enzymatic saccharide acylation with hydroxycinnamic acids in non-conventional media
Publication: Research - peer-review › Journal article – Annual report year: 2012

Thermodynamic modeling of phase equilibria of semi-clathrate hydrates of CO₂, CH₄, or N₂+tetra-n-butylammonium bromide aqueous solution
Eslamimanesh, A., Mohammadi, A. H. & Richon, D. 2012 In : Chemical Engineering Science. 81, p. 319-328
Publication: Research - peer-review › Journal article – Annual report year: 2012

Thirty Years with EoS/GE Models - What Have We Learned?
Publication: Research - peer-review › Journal article – Annual report year: 2012

Transport properties of natural gas through polyethylene nanocomposites at high temperature and pressure
Publication: Research - peer-review › Journal article – Annual report year: 2012

Vapor–Liquid–Liquid Equilibrium Measurements and Modeling of the Methanethiol + Methane + Water Ternary System at 304, 334, and 364 K
Publication: Research - peer-review › Journal article – Annual report year: 2012

Wettability Improvement with Enzymes: Application to Enhanced Oil Recovery under Conditions of the North Sea Reservoirs
Publication: Research › Article in proceedings – Annual report year: 2012

Investigation and Modelling of Diesel Hydrotreating Reactions
Publication: Research › Ph.D. thesis – Annual report year: 2011

Extension of association models to complex chemicals
Publication: Research › Ph.D. thesis – Annual report year: 2011

Migration of plasticisers from PVC and other polymers
Publication: Research › Ph.D. thesis – Annual report year: 2011

Absorption and Desorption Modelling United
Fosbøl, P. L. 2011
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Advanced Waterflooding in Chalk Reservoirs: Crude Oil/Brine Interaction Study
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Advanced waterflooding in chalk reservoirs: Understanding of underlying mechanisms
Publication: Research - peer-review › Journal article – Annual report year: 2011
A Mathematical Model for Non-monotonic Deposition Profiles in Deep Bed Filtration Systems
Yuan, H. & Shapiro, A. 2011 In : Chemical Engineering Journal. 166, p. 105-115
Publication: Research - peer-review › Journal article – Annual report year: 2010

Amino acid salt solutions as solvents in CO2 capture from flue gas: CO2 loading capacity and precipitation.
Lerche, B. M., Thomsen, K. & Stenby, E. H. 2011
Publication: Research - peer-review › Poster – Annual report year: 2011

An Explanation of the Selective Plating of Laser Machined Surfaces using Surface Tension Components
Zhang, Y., Kontogeorgis, G. & Hansen, H. N. 2011 In : Journal of Adhesion Science and Technology. 25, p. 2101-2111
Publication: Research - peer-review › Journal article – Annual report year: 2011

Application of association models to mixtures containing alkanolamines
Publication: Research - peer-review › Journal article – Annual report year: 2011

Aqueous Solubility of Piperazine and 2-Amino-2-methyl-1-propanol plus Their Mixtures Using an Improved Freezing-Point Depression Method
Fosbøl, P. L., Neerup, R., Waseem Arshad, M., Tecle, Z. & Thomsen, K. 2011 In : Journal of Chemical and Engineering Data. 56, 12, p. 5088-5093
Publication: Research - peer-review › Journal article – Annual report year: 2011

Building a multilevel modeling network for lipid processing systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Building a Multilevel Modeling Network for Lipid Processing Systems
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Chemical Absorption Materials
Thomsen, K. 2011 CCS Power Plants.
Publication: Research - peer-review › Book chapter – Annual report year: 2012

CO2 capture using aqueous ammonia: kinetic study and process simulation
Publication: Research - peer-review › Conference article – Annual report year: 2011

Comparison of Two Methods for Speeding Up Flash Calculations in Compositional Simulations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Current status of R&D in post combustion CO2 capture
Thomsen, K. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Distribution of Complex Chemicals in Oil-Water Systems
Publication: Research › Ph.D. thesis – Annual report year: 2012
Dynamic flow method to study the CO2 loading capacity of amino acid salt solutions
Lerche, B. M., Stenby, E. H. & Thomsen, K. 2011
Publication: Research - peer-review › Poster – Annual report year: 2011

Estimation of Chromatographic Columns Performances using Computer Tomography and CFD Simulations
Publication: Research - peer-review › Journal article – Annual report year: 2011

Evaluation of the CO2 Behavior in Binary Mixtures with Alkanes, Alcohols, Acids and Esters Using the Cubic-Plus-Association Equation of State
Oliveira, M. B., Queimada, A. J., Marrucho, I. M., Kontogeorgis, G. & Coutinho, J. A. P. 2011 In : Journal of Supercritical Fluids. 55, p. 876-892
Publication: Research - peer-review › Journal article – Annual report year: 2011

Experimental Determination and Modeling of the Phase Behavior for the Selective Oxidation of Benzyl Alcohol in Supercritical CO2
Publication: Research - peer-review › Journal article – Annual report year: 2011

Experimental measurement and modeling of the rate of absorption of carbon dioxide by aqueous ammonia
Publication: Research - peer-review › Journal article – Annual report year: 2011

Filtration in Porous Media: Influential Parameters and Comparison with Experiments
Yuan, H. & Shapiro, A. 2011
Publication: Research - peer-review › Poster – Annual report year: 2011

Freezing Point Depression of Aqueous Solutions of DEEA, MAPA and DEEA-MAPA with and without CO2 Loading
Waseem Arshad, M. & Thomsen, K. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Freezing Point Depressions of Aqueous MEA, MDEA, and MEA–MDEA Measured with a New Apparatus
Fosbøl, P. L., Pedersen, M. G. & Thomsen, K. 2011 In : Journal of Chemical and Engineering Data. 56, 4, p. 995-1000
Publication: Research - peer-review › Journal article – Annual report year: 2011

Generic Model and Data Based Framework for Analysis and Development of Crystallization Processes
Meisler, K. T., Abdul Samad, N. A. F., Gernaey, K., von Solms, N. & Gani, R. 2011
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Heterogeneously Catalyzed Oxidation Reactions Using Molecular Oxygen
Beier, M. J., Grunwaldt, J-D., Jensen, A. D. & Kontogeorgis, G. 2011 Technical University of Denmark, Department of Chemical Engineering. 204 p.
Publication: Research › Ph.D. thesis – Annual report year: 2011

Induced migration of fines during waterflooding in communicating layer-cake reservoirs
Yuan, H. & Shapiro, A. 2011 In : Journal of Petroleum Science and Engineering. 78, 3-4, p. 618-626
Publication: Research - peer-review › Journal article – Annual report year: 2011

Inhibition of Structure I and II Gas Hydrates using Synthetic and Biological Kinetic Inhibitors
Publication: Research - peer-review › Journal article – Annual report year: 2011
Intramolecular Association within the SAFT Framework
Publication: Research - peer-review › Journal article – Annual report year: 2011

Leaching from waste incineration bottom ashes treated in a rotary kiln
Publication: Research - peer-review › Journal article – Annual report year: 2011

Lipid Processing Technology: Building a Multilevel Modeling Network
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Lipid Processing Technology: Building a Multilevel Modeling Network

Lipid Processing Technology: Shifting From Waste Streams to High-Value Commercial by-Products

Measurement and modeling of CO2 solubility in NaCl brine and CO2–saturated NaCl brine density
Publication: Research - peer-review › Journal article – Annual report year: 2011

Measurement of liquid-liquid equilibria for condensate + glycol and condensate + glycol + water systems
Riaz, M., Kontogeorgis, G., Stenby, E. H., Yan, W., Haugum, T., Christensen, K. O., Løkken, T. V. & Solbraa, E. 2011 In : Journal of Chemical and Engineering Data. 56, 12, p. 4342-4351
Publication: Research - peer-review › Journal article – Annual report year: 2011

Modeling of phase equilibria with CPA using the homomorph approach
Publication: Research - peer-review › Journal article – Annual report year: 2011

Modeling of the Thermodynamics of the Acetic Acid–Water Mixture Using the Cubic-Plus-Association Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2011

Modeling phase equilibria for acid gas mixtures using the CPA equation of state. Part II: Binary mixtures with CO2
Publication: Research - peer-review › Conference article – Annual report year: 2011

Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling using the CPA Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2011

On Application of Non-cubic EoS to Compositional Reservoir Simulation
Yan, W., Michelsen, M. L. & Stenby, E. H. 2011
Publication: Research - peer-review › Paper – Annual report year: 2012
Particles and Pores: New transport and capture mechanisms
Yuan, H., Nielsen, S. M., Shapiro, A. & Stenby, E. H. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Partition Coefficients of Organic Molecules in Squalane and Water/Ethanol Mixtures by Molecular Dynamics Simulations
Publication: Research - peer-review › Journal article – Annual report year: 2011

Phase Behavior in EOR Surfactant Flooding
Sandersen, S. B., von Solms, N. & Stenby, E. H. 2011
Publication: Research - peer-review › Poster – Annual report year: 2011

Phase Equilibrium in Amino Acid Salt Systems for CO2 Capture
Sengeløv, L. W. & Thomsen, K. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Physical mechanisms of deep bed filtration with application to the problems of petroleum industry
Yuan, H., Shapiro, A. & Stenby, E. H. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Pressure Effect on Phase Behavior of Surfactant System
Sandersen, S. B., von Solms, N. & Stenby, E. H. 2011
Publication: Research › Poster – Annual report year: 2011

Pressure Effect on Phase Behavior of Surfactant System
Sandersen, S. B., von Solms, N. & Stenby, E. H. 2011
Publication: Research › Conference abstract for conference – Annual report year: 2011

Properties of cryobrines on Mars
Möhlmann, D. & Thomsen, K. 2011 In : Icarus. 212, 1, p. 123-130
Publication: Research - peer-review › Journal article – Annual report year: 2011

Screening of amino acid salts solutions for application in CO2 capture from flue gas.
Lerche, B. M., Stenby, E. H. & Thomsen, K. 2011
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Towards Predictive Association Theories
Kontogeorgis, G., Tsivintzelis, I., Michelsen, M. L. & Stenby, E. H. 2011 In : Fluid Phase Equilibria. 301, 2, p. 244-256
Publication: Research - peer-review › Journal article – Annual report year: 2011

Uncertainty and Sensitivity Analysis of Filtration Models for Non-Fickian transport and Hyperexponential deposition
Publication: Research - peer-review › Journal article – Annual report year: 2011

Upscaling of Two-Phase Immiscible Flows in Communicating Stratified Reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2011

CO2 Flooding in Chalk Reservoirs
Multiphase Equilibrium in Systems with Production Chemicals
Fonseca, J. & von Solms, N.
Sep 2010 Kgs. Lyngby, Denmark: Technical University of Denmark (DTU).
297 p.

Chilled Ammonia Process for CO2 Capture
Darde, V. C. A., Thomsen, K., Well, W. J. M. V. & Stenby, E. H.

1D Simulations for Microbial Enhanced Oil Recovery with Metabolite Partitioning
Nielsen, S. M., Shapiro, A., Michelsen, M. L. & Stenby, E. H.
2010 In : Transport in Porous Media. 85, 3, p. 785-802

Absorber Model for CO2 Capture by Monoethanolamine
Faramarzi, L., Kontogeorgis, G., Michelsen, M. L., Thomsen, K. & Stenby, E. H.
2010 In : Industrial & Engineering Chemistry Research. 49, 8, p. 3751-3759

Advanced Waterflooding in Carbonate Reservoirs
Zahid, A., Stenby, E. H. & Shapiro, A.
2010

A Stochastic Theory for Deep Bed Filtration Accounting for Dispersion and Size Distributions
Shapiro, A. & Bedrikovetsky, P. G.

Calculation of Liquid Water-Hydrate-Methane Vapor Phase Equilibria from Molecular Simulations

CAP Chemistry and Phase Equilibrium in the CO2-NH3-H2O System
Thomsen, K.
2010

Comparison CAP vs. MEA/amine
Thomsen, K.
2010

Comparison of activity coefficient models for electrolyte systems
Lin, Y., ten Kate, A., Mooijer, M., Delgado, J., Fosbel, P. L. & Thomsen, K.
2010 In : A I Ch E Journal. 56, 5, p. 1334-1351

Compositional Simulation of In-Situ Combustion EOR: A Study of Process Characteristics
Jain, P.
2010 Proceedings from SPE Improved Oil Recovery Symposium.

COMSOL Implementation for Two-Phase Immiscible Flows in Layered Reservoir
Zhang, X.
2010 Proceedings from European COMSOL Conference.
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

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

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
Jensen, L. 2010 Proceedings of the 2nd Annual Gas Processing Symposium
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
Modelling of Partition Coefficients of Additives in Polymer/solvent Systems by Free Energy Calculations
Lundsgaard, R. 2010

Modelling the Phase Equilibria with CPA using the Homomorph Approach
Martin, B., Tsivintzelis, I. & Kontogeorgis, G. 2010

Monte-Carlo Simulations of the Liquid Water-Hydrate-Methane Vapor Phase Equilibria
Jensen, L. 2010

Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling using the CPA Equation of State
Riaz, M., Kontogeorgis, G., Stenby, E. H., Yan, W., Haugum, T., Christensen, K. O., Solbraa, E. & Løkken, T. V. 2010

Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling using the CPA Equation of State
Riaz, M. & Kontogeorgis, G. 2010

Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling using the CPA Equation of State
Riaz, M., Kontogeorgis, G., Stenby, E. H., Yan, W., Haugum, T., Christensen, K. O., Solbraa, E. & Løkken, T. V. 2010

Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling using the CPA Equation of State
Riaz, M., Kontogeorgis, G., Stenby, E. H., Yan, W., Haugum, T., Christensen, K. O., Solbraa, E. & Løkken, T. V. 2010

ParPor: Particles in Pores. Stochastic Modeling of Polydisperse Transport
Yuan, H. 2010 DTU Chemical Engineering Graduate School Yearbook 2009. Technical University of Denmark, Department of Chemical Engineering, p. 209-212 228 p.

Phase equilibria modeling of methanol-containing systems with the CPA and sPC-SAFT equations of state

Phase Equilibria of Mixtures Containing Organic Sulfur Species (OSS) and Water/Hydrocarbons: VLE Measurements and Modeling Using the Cubic-Plus-Association Equation of State
Awan, J., Tsivintzelis, I., Breil, M., Coquelet, C., Richon, D. & Kontogeorgis, G. 2010 In : Industrial & Engineering Chemistry Research. 49, 210, p. 12718-12725

Phase Equilibrium with Surfactant Model System at Elevated Pressures
Sanderson, S. B. 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 › 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
Publication: Research - peer-review › Journal article – Annual report year: 2010

Electrolyte Solutions: Thermodynamics, Crystallization, Separation methods
Thomsen, K. 2009 111 p.
Capture and Storage Projects at IVC-SEP
Publication: Research › 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 › Ph.D. thesis – 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

Compositional Streamline Simulation: Progress Report No. 4
Yan, W., Berenblyum, R., Shapiro, A., Michelsen, M. L. & Stenby, E. H. 2003
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

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 Hydrocarbon 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
BINARY VLE of DEEA/H2O, MAPA/H2O and DEEA/MAPA SYSTEMS
Arshad, M. W. (Speaker)
5 Jun 2013

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Kontogeorgis, G. (Lecturer)
20 Apr 2013 → 25 Apr 2013

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Mattei, M. (Lecturer)
20 Apr 2013 → 25 Apr 2013

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Gani, R. (Lecturer)
20 Apr 2013 → 25 Apr 2013

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

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 → …

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

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

Prizes:

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