New association schemes for mono-ethylene glycol: Cubic-Plus-Association parameterization and uncertainty analysis
Publication: Research - peer-review › Journal article – Annual report year: 2018

Application of a Crossover Equation of State to Describe Phase Equilibrium and Critical Properties of n-Alkanes and Methane/n-Alkane Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2017

Data Requirements and Modeling for Gas Hydrate-Related Mixtures and a Comparison of Two Association Models
Liang, X., Aloupis, G. & Kontogeorgis, G. M. 2017 In : Journal of Chemical and Engineering Data. 62, 9, p. 2592-2605
Publication: Research - peer-review › Journal article – Annual report year: 2017

Dimerization of Carboxylic Acids: An Equation of State Approach
Publication: Research - peer-review › Journal article – Annual report year: 2017

Evaluation of equations of state for simultaneous representation of phase equilibrium and critical phenomena
Pinto Coelho Muniz 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

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

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

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

Prospects of the use of nanofluids as working fluids for organic Rankine cycle power systems
Publication: Research - peer-review › Conference article – Annual report year: 2017
Simultaneous Description of Activity Coefficients and Solubility with eCPA
Publication: Research - peer-review › Journal article – Annual report year: 2017

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

Evaluation of the Cubic-Plus-Association Equation of State for Ternary, Quaternary, and Multicomponent Systems in the Presence of Monoethyleneglycol
Publication: Research - peer-review › Journal article – 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 Asphaltene Onset Precipitation Using the Cubic-Plus-Association Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2015

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 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

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. 415, p. 75-83
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

Thermodynamic modeling of CO₂ mixtures
Publication: Research › Ph.D. thesis – 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

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

An Integrated Methodology for Emulified 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

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 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

Improving GC-PPC-SAFT equation of state for LLE of hydrocarbons and oxygenated compounds with water
Publication: Research - peer-review › Journal article – Annual report year: 2014

Measurement and Modelling of Phase Equilibrium of Oil - Water - Polar Chemicals
Publication: Research › Ph.D. thesis – Annual report year: 2015

Modeling Phase Equilibria for Acid Gas Mixtures using the Cubic-Plus-Association Equation of State. 3. Applications Relevant to Liquid or Supercritical CO2 Transport
Publication: Research - peer-review › Journal article – Annual report year: 2014

Modeling Water Containing Systems with the Simplified PC-SAFT and CPA Equations of State
Publication: Research - peer-review › Journal article – Annual report year: 2014

On petroleum fluid characterization with the PC-SAFT equation of state
Liang, X., Yan, W., Thomsen, K. & Kontogeorgis, G. M. 2014 In : Fluid Phase Equilibria. 375, p. 254-268
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

Process Design of Industrial Triethylene Glycol Processes Using the Cubic-Plus-Association (CPA) Equation of State
Development and Analysis of Group Contribution Plus Models for Property Prediction of Organic Chemical Systems
Mustaffa, A. A., Gani, R. & Kontogeorgis, G. 2013 Technical University of Denmark, Department of Chemical Engineering . 251 p.
Publication: Research › Ph.D. thesis – Annual report year: 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 Publication: Research - peer-review › Poster – Annual report year: 2013

Distribution of MEG and methanol in well-defined hydrocarbon and water systems: Experimental measurement and modeling using the CPA EoS
Publication: Research - peer-review › Journal article – Annual report year: 2013

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

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

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: 2013

Heterogeneously Catalysed Chemical Reactions in Carbon Dioxide Medium
Publication: Research › Ph.D. thesis – Annual report year: 2013

Liquid–liquid equilibria for reservoir fluids+monoethylene glycol and reservoir fluids+monoethylene glycol+water: Experimental measurements and modelling 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
Modeling of the Critical Micelle Concentration (CMC) of Nonionic Surfactants with an Extended Group-Contrbution Method
Mattei, M., Kontogeorgis, G. & Gani, R. 2013 In : Industrial & Engineering Chemistry Research. 52, p. 12236-12246

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

Predicting Surfactant-related Properties for Chemical-based Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2013

Prediction of thermo-physical properties of liquid formulated products

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

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

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

Application of simplified PC-SAFT to glycol ethers

Application of the UNIFAC-CI Model for Phase Equilibria Predictions of Organic Chemical System
Mustaffa, A. A., Kontogeorgis, G. & Gani, R. 2012

Workshop on industrial use of molecular thermodynamics
Kontogeorgis, G., Jaubert, J-N. & de Hemptinne, J-C. 2013 In : Oil & Gas Science & Technology. 68, 2, p. 203-215

Workshop on industrial use of molecular thermodynamics (InMoTher)

Application of simplified PC-SAFT to glycol ethers

Application of the UNIFAC-CI Model for Phase Equilibria Predictions of Organic Chemical System
Mustaffa, A. A., Kontogeorgis, G. & Gani, R. 2012
Approach to Improve Speed of Sound Calculation within PC-SAFT Framework
Publication: Research - peer-review › Journal article – Annual report year: 2012

A Systematic Methodology for Design of Emulsion Based Chemical Products
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

A Systematic Methodology for Design of Emulsion Based Chemical Products
Mattei, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research › Poster – 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 the Debye–Hückel and the Mean Spherical Approximation Theories for Electrolyte Solutions
Publication: Research - peer-review › Journal article – 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 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

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

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

Novel self-associative and multiphase nanostructured soft carriers based on amphiphilic hyaluronic acid derivatives
Publication: Research - peer-review › Journal article – Annual report year: 2011
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

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

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

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

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

Thirty Years with EoS/G^E Models - What Have We Learned?
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

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

Analysis and Application of GC Plus Models for Property Prediction of Organic Chemical Systems
Mustaffa, A. A., Kontogeorgis, G. & Gani, R. 2011 In : Fluid Phase Equilibria. 302, p. 274-283
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
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

Distribution of Complex Chemicals in Oil-Water Systems
Publication: Research › Ph.D. thesis – Annual report year: 2012

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. 878-892
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

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

Intramolecular Association within the SAFT Framework
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
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Lipid Processing Technology: Shifting From Waste Streams to High-Value Commercial by-Products
Publication: Research - peer-review › Conference abstract for conference – 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
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 the Phase Equilibria with CPA using the Homomorph Approach
Martin, B., Tsivintzelis, I. & Kontogeorgis, G. 2010
Publication: Research - peer-review › Poster – Annual report year: 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. & Lakken, T. V. 2010
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Mutual Solubility of MEG, Water and Reservoir Fluid: Experimental Measurements and Modeling using the CPA Equation of State
Riaz, M. & Kontogeorgis, G. 2010
Publication: Research - peer-review › Poster – Annual report year: 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. & Lakken, T. V. 2010
Book of abstracts: CHISA.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 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. & Lakken, T. V. 2010
Book of abstracts: ECCE7.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Phase equilibria modeling of methanol-containing systems with the CPA and sPC-SAFT equations of state
Publication: Research - peer-review › Journal article – Annual report year: 2010

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
Publication: Research - peer-review › Journal article – 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

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
CURRICULUM - Teaching Chemical Engineering Thermodynamics at Three Levels: Experience from the Technical University of Denmark
Kontogeorgis, G., Michelsen, M. L. & Clement, K. 2009 In : Chemical Engineering Education. 43, 1, p. 70-78
Publication: Research - peer-review › Journal article – Annual report year: 2009

Estimation of the Impact of Sulfur Species on Glycol Dehydration
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Publication: Research - peer-review › Journal article – Annual report year: 2009

Extended UNIQUAC model for thermodynamic modeling of CO2 absorption in aqueous alkanolamine solutions
Publication: Research - peer-review › Journal article – Annual report year: 2009

Intramolecular Association within the SAFT framework
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Modeling Gas Hydrates Using Simplified PC-SAFT
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Modeling of the Migration of Glycerol Monoester Plasticizers in Highly Plasticized Poly(vinyl chloride)
Publication: Research - peer-review › Journal article – Annual report year: 2009

Modeling partition coefficients of additives in polymer/polymer and polymer/solvent systems by free energy calculations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Modeling the Phase Behavior in Mixtures of Pharmaceuticals with Liquid or Supercritical Solvents
Publication: Research - peer-review › Journal article – Annual report year: 2009

Modeling the Solid-Liquid Equilibrium in Pharmaceutical-Solvent Mixtures: Systems with Complex Hydrogen Bonding Behavior
Publication: Research - peer-review › Journal article – Annual report year: 2009

Modeling the Solubility of Pharmaceuticals in Liquid and Supercritical Pure and Mixed Solvents
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Modeling the vapor-liquid equilibria of polymer-solvent mixtures: Systems with complex hydrogen bonding behavior
Tsivintzelis, I. & Kontogeorgis, G. 2009 In : Fluid Phase Equilibria. 280, 1-2, p. 100-109
Publication: Research - peer-review › Journal article – Annual report year: 2009
Modelling the Solubility of Pharmaceuticals in Liquid and Supercritical Pure and Mixed Solvents
Kontogeorgis, G. 2009 DCIS 2009 Danish Colloid and Interface Symposium.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Phase Equilibria of Mixtures Containing Glycol and n-Alkane: Experimental Study of Infinite Dilution Activity Coefficients and Modeling Using the Cubic-Plus-Association Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2009

Recent Developments of the CPA equation of state for associating fluids
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Thermodynamic modeling of the solubility of CO2 in aqueous alkanolamine solutions using the extended UNIQUAC model
Application to monoethanolamine and methyldiethanolamine
Publication: Research - peer-review › Conference article – Annual report year: 2009

Thermodynamic Modeling of Water-Acid Gases-Alkanolamine Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Thermodynamics of Triethylene Glycol and Tetraethylene Glycol Containing Systems Described by the Cubic-Plus-Association Equation of State
Breil, M. P. & Kontogeorgis, G. 2009 In : Industrial & Engineering Chemistry Research. 48, 11, p. 5472-5480
Publication: Research - peer-review › Journal article – Annual report year: 2009

The Role of Monomer Fraction Data in Association Theories
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Development of soft nanocarriers from novel amphiphilic hyaluronic acid derivatives towards drug delivery
Publication: Research › Ph.D. thesis – Annual report year: 2008

Group Contribution sPC-SAFT Equation of State
Publication: Research › Ph.D. thesis – Annual report year: 2008

Application of an Association Model to Alkanolamines
Publication: Research - peer-review › Poster – Annual report year: 2008

Application of an Association Model to Complex Fluids
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

A predictive group-contribution simplified PC-SAFT equation of state: Application to polymer systems
Capture and Storage Projects at IVC-SEP
Publication: Research - peer-review › Journal article – Annual report year: 2008

Designing with CAPE-OPEN
Publication: Research - peer-review › Poster – Annual report year: 2008

Evaluation of the nonrandom hydrogen bonding (NRHB) theory and the simplified perturbed-chain-statistical associating fluid theory (sPC-SAFT). 1. Vapor-liquid equilibria
Publication: Research - peer-review › Journal article – Annual report year: 2008

Evaluation of the nonrandom hydrogen bonding (NRHB) theory and the simplified perturbed-chain-statistical associating fluid theory (sPC-SAFT). 2. Liquid-liquid equilibria and prediction of monomer fraction in hydrogen bonding systems
Publication: Research - peer-review › Journal article – Annual report year: 2008

Modeling systems containing alkanolamines with the CPA equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2008

Modelling Hydrogen-Bonding Fluid Mixtures Using Insight Gained from Spectroscopy
Publication: Research › Conference abstract for conference – Annual report year: 2008

Modelling of phase equilibria of glycol ethers mixtures using an association model
Publication: Research - peer-review › Journal article – Annual report year: 2008

Phase equilibrium modelling for mixtures with acetic acid using an association equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2008

Solvation phenomena in association theories with applications to oil & gas and chemical industries
Publication: Research - peer-review › Journal article – Annual report year: 2008

CO2 Capture from Coal Fired Power Plants
Publication: Research › Ph.D. thesis – Annual report year: 2007

Modelling of Complex Mixtures Containing Hydrogen Bonding Molecules
Publication: Research › Ph.D. thesis – Annual report year: 2007
Adhesion between coating layers based on epoxy and silicone
Publication: Research - peer-review › Journal article – Annual report year: 2007

Adsorption of amylase enzyme on ultrafiltration membranes
Publication: Research - peer-review › Journal article – Annual report year: 2007

Application of PC-SAFT to glycol containing systems - PC-SAFT towards a predictive approach
Publication: Research - peer-review › Conference article – Annual report year: 2007

CAPE-Open: An International Standard for Process Simulation
Publication: Research - peer-review › Journal article – Annual report year: 2007

Classical and recent free-volume models for polymer solutions: A comparative evaluation
Publication: Research - peer-review › Journal article – Annual report year: 2007

Comments on "Measurement and modeling of the solubility of water in supercritical methane and ethane from 310 to 477 K and pressures from 3.4 to 110 MPa"
Kontogeorgis, G. & Yan, W. 2007 In : Industrial & Engineering Chemistry Research. 46, 12, p. 4347-4348
Publication: Research - peer-review › Letter – Annual report year: 2007

Data and prediction of water content of high pressure nitrogen, methane and natural gas
Publication: Research - peer-review › Journal article – Annual report year: 2007

Designing with CAPE-OPEN
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Development of a Group Contribution Simplified PC-SAFT Equation of State
Publication: Research › Poster – Annual report year: 2007

Development of a Group Contribution Simplified PC-SAFT Equation of State
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Development of a Group Contribution Simplified PC-SAFT Equation of State
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Development of Colloidal Carriers from a Novel Amphiphilic Hyaluronic Acid
Publication: Research › Poster – Annual report year: 2007

Development of Colloidal Carriers from Modified Hyaluronic Acid
Publication: Research › Poster – Annual report year: 2007
Development of Colloidal Carriers from Modified Hyaluronic Acid
Publication: Research › Poster – Annual report year: 2007

Evaluation of Statistical Mechanics-Based Equations of State for Complex Fluid Mixtures
Publication: Research › Article in proceedings – Annual report year: 2007

Experimental validation of a rate-based model for CO2 capture using an AMP solution
Publication: Research › Journal article – Annual report year: 2007

High-pressure vapor-liquid equilibria of systems containing ethylene glycol, water and methane - Experimental measurements and modeling
Publication: Research › Journal article – Annual report year: 2007

Measurement and modelling of hydrogen bonding in 1-alkanol plus n-alkane binary mixtures
Publication: Research › Conference article – Annual report year: 2007

Modeling phase equilibria of alkanols with the simplified PC-SAFT equation of state and generalized pure compound parameters
Publication: Research › Journal article – Annual report year: 2007

Modeling the liquid-liquid equilibria of water plus fluorocarbons with the cubic-plus-association equation of state
Publication: Research › Journal article – Annual report year: 2007

Modelling af Associating Mixtures for Applications in the Oil and Gas and Chemical Industries
Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

Modelling of Associating Mixtures for Applications in the Oil and Gas and Chemical Industries
Publication: Research › Conference article – Annual report year: 2007

Modelling of Associating Mixtures for Applications in the Oil and Gas and Chemical Industries
Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

Modelling of CO2 Capture
Publication: Research › Sound/Visual production (digital) – Annual report year: 2007
Approach suitable for screening estimation methods for critical properties of heavy compounds
Publication: Research - peer-review › Journal article – Annual report year: 2006

Capabilities, limitations and challenges of a simplified PC-SAFT equation of state
Publication: Research - peer-review › Journal article – Annual report year: 2006

Comparison of the SRK and CPA equations of state for physical properties of water and methanol
Publication: Research - peer-review › Journal article – Annual report year: 2006

Comparison of two association models (Elliot-Suresh-Donohue and simplified PC-SAFT) for complex phase equilibria of hydrocarbon-water and amine-containing mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2006

Comparison of two association models (ESD and simplified PC-SAFT) for complex phase equilibria of hydrocarbon-water and amine-containing mixtures
Publication: Research - peer-review › Poster – Annual report year: 2006

Evaluation of the truncated perturbed chain-polar statistical associating fluid theory for complex mixture fluid phase equilibria
Publication: Research - peer-review › Journal article – Annual report year: 2006

Further development of the CPA EoS for mixtures with organic acids
Publication: Research - peer-review › Poster – Annual report year: 2006

Liquid-liquid equilibria for binary and ternary systems containing glycols + aromatic hydrocarbons
Publication: Research - peer-review › Poster – Annual report year: 2006

Liquid-liquid equilibria for binary and ternary systems containing glycols, aromatic hydrocarbons, and water: Experimental measurements and modeling with the CPA EoS
Publication: Research - peer-review › Journal article – Annual report year: 2006

(Liquid plus liquid) equilibria of binary polymer solutions using a free-volume UNIQUAC-NRF model
Radfarnia, H. R., Ghotbi, C., Taghikhani, V. & Kontogeorgis, G. 2006 In : Journal of Chemical Thermodynamics. 38, 7, p. 923-928
Publication: Research - peer-review › Journal article – Annual report year: 2006

Modeling of CO2 absorber using an AMP solution
Publication: Research - peer-review › Journal article – Annual report year: 2006
Modeling of Randomly Packed CO2 Absorber Using an Alkanolamine Solution
Publication: Research - peer-review › Poster – Annual report year: 2006

Modelling of Randomly Packed CO2 Absorber Using an Alkanolamine Solution
Publication: Research - peer-review › Poster – Annual report year: 2006

Predicting enhanced absorption of light gases in polyethylene using simplified PC-SAFT and SAFT-VR
Publication: Research - peer-review › Journal article – Annual report year: 2006

Prediction of gas phase water content of high pressure nitrogen, methane and natural gas
Publication: Research - peer-review › Poster – Annual report year: 2006

Recent applications with the simplified PC-SAFT equation of state
Publication: Research - peer-review › Poster – Annual report year: 2006

Recent application with the simplified PC-SAFT equation of state
Publication: Research - peer-review › Poster – Annual report year: 2006

Ten years with the CPA (Cubic-Plus-Association) equation of state. Part 1. Pure compounds and self-associating systems
Publication: Research - peer-review › Journal article – Annual report year: 2006

Ten years with the CPA (Cubic-Plus-Association) equation of state. Part 2. Cross-associating and multicomponent systems
Publication: Research - peer-review › Journal article – Annual report year: 2006

Thermodynamic modeling of acidic gas solubility in aqueous solutions of MEA, MDEA and MEA-MDEA blends
Publication: Research - peer-review › Journal article – Annual report year: 2006

Vapor-liquid, liquid-liquid and vapor-liquid-liquid equilibrium of binary and multicomponent systems with MEG modeling with the CPA EoS and an EoS/G(E) model
Publication: Research - peer-review › Journal article – Annual report year: 2006

A model for estimating CO2 solubility in aqueous alkanolamines
Publication: Research - peer-review › Journal article – Annual report year: 2005

A modified free-volume-based model for predicting vapor-liquid and solid-liquid equilibria for size asymmetric systems
Publication: Research - peer-review › Journal article – Annual report year: 2005
Thermodynamic Modelling of Surfactant Solutions
Publication: Research › Ph.D. thesis – Annual report year: 2004

A novel approach to liquid-liquid equilibrium in polymer solutions with application to simplified PC-SAFT
von Solms, N., Kouskoumvekaki, E., Lindvig, T., Michelsen, M. L. & Kontogeorgis, G. 2004 In : Fluid Phase Equilibria. 222 , p. 87-93
Publication: Research - peer-review › Journal article – Annual report year: 2004

A Novel Approach to Liquid-Liquid Equilibrium in Polymer Systems with Applications to Simplified PC-SAFT
von Solms, N., Kouskoumvekaki, E., Lindvig, T., Michelsen, M. L. & Kontogeorgis, G. 2004 In : Fluid Phase Equilibria. 222-223, 0, p. 87
Publication: Research - peer-review › Journal article – Annual report year: 2003

A Novel Method for Estimating Pure-Component Parameters for Polymers, Application to the PC-SAFT Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2004

A Novel Method for Estimating Pure-Component Parameters for Polymers: Application to the PC-SAFT Equation of State
Publication: Research - peer-review › Journal article – Annual report year: 2003

Application of a simplified perturbed SAFT equation of state to complex polymer systems
Publication: Research - peer-review › Journal article – Annual report year: 2004

Application of Property Models in Chemical Product Design
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Application of the CPA equation of state to organic acids
Publication: Research - peer-review › Journal article – Annual report year: 2004

Application of the Perturbed Chain SAFT Equation of State to Complex Polymer Systems using Simplified Mixing Rules
Publication: Research - peer-review › Journal article – Annual report year: 2004

Application of the simplified PC-SAFT equation of state to the vapor-liquid equilibria of binary and ternary mixtures of polyamide 6 with several solvents
Publication: Research - peer-review › Journal article – Annual report year: 2004

Application of the Simplified PC-SAFT Equation of State to the Vapor Liquid Equilibria of Binary Mixtures of Polyamide 6 with Several Solvent
Publication: Research - peer-review › Journal article – Annual report year: 2004
Applied thermodynamics in chemical engineering in the 20th and 21st centuries
Publication: Research › Book chapter – Annual report year: 2004

Applying Association Theories to Polar Fluids
von Solms, N., Michelsen, M. L. & Kontogeorgis, G. 2004 In : Industrial & Engineering Chemistry Research. 43, 0, p. 1803-1806
Publication: Research - peer-review › Journal article – Annual report year: 2004

Carbon Dioxide and Hydrogen Sulfide Absorption Into Aqueous Solutions of Alkanolamines
Kontogeorgis, G. & Coutsikos, P. 2004
Publication: Research - peer-review › Report – Annual report year: 2004

Chemical Product Design: A new challenge of applied thermodynamics
Abildskov, J. & Kontogeorgis, G. 2004 In : Chemical Engineering Research & Design. 82, 11, p. 1505-1510
Publication: Research - peer-review › Journal article – Annual report year: 2004

Computer-Aided Property Estimation for Process and Product Design
Kontogeorgis, G. & Gani, R. 2004 19 ed.
Publication: Research - peer-review › Book – Annual report year: 2004

Equations of State with Emphasis on Excess Gibbs Energy Mixing Rules
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Extension of the CPA equation of state to organic acids
Publication: Research - peer-review › Journal article – Annual report year: 2004

Forenklet PC-SAFT - et nyt redskab i polymertermodynamik
Publication: Communication › Journal article – Annual report year: 2004

Liquid-liquid equilibria for binary and ternary polymer solutions with PC-SAFT
Lindvig, T., Michelsen, M. L. & Kontogeorgis, G. 2004 In : Industrial & Engineering Chemistry Research. 43, 4, p. 1125-1132
Publication: Research - peer-review › Journal article – Annual report year: 2004

Modeling of multicomponent vapor-liquid equilibria for polymer-solvent systems
Publication: Research - peer-review › Journal article – Annual report year: 2004

Models for Polymer Solutions
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Part II: Models for Properties
Publication: Research - peer-review › Book chapter – Annual report year: 2004
Part I. Introduction to Computer Aided Property Estimation
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Part IV: Challenges and Opportunities
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Property models in computation of phase equilibrium
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Van der Waals-based Cubic Equations of State for Asymmetric Systems using a Simple Mixing Rule
Kontogeorgis, G. & Coutsikos, P. 2004
Publication: Research - peer-review › Report – Annual report year: 2004

Computational and Physical Performance of a Modified PC-SAFT Equation of State for Highly Asymmetric and Associating Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2003

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

A Flory-Huggins model based on the Hansen solubility parameters for paint-related applications
Kontogeorgis, G., Lindvig, T. & Michelsen, M. L. 2003
Publication: Research › Poster – Annual report year: 2003

Application of the CPA equation of state to glycol/hydrocarbons liquid-liquid equilibria
Publication: Research - peer-review › Journal article – 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 › Poster – 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 › Poster – 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
Phase Equilibria for Complex Polymer Solutions
Lindvig, T., Kontogeorgis, G. & Michelsen, M. L. 2003
Publication: Research › Ph.D. thesis – Annual report year: 2003

Prediction of Solid-Gas Equilibria with the Peng-Robinson Equation of State
Coutsikos, P., Magoulas, K. & Kontogeorgis, G. 2003 In : Journal of Supercritical Fluids. 25, 3, p. 197-212
Publication: Research - peer-review › Journal article – Annual report year: 2003

Product engineering vs. Process engineering on VOC emission
Publication: Research › Conference abstract in proceedings – Annual report year: 2003

Termodynamiske modeler for produktionskemikaliers egenskaber
Derawi, S., Michelsen, M. L., Kontogeorgis, G. & Stenby, E. H. 2003 In : Dansk Kemi. 84, p. 15-17
Publication: Communication › Journal article – Annual report year: 2003

A comment on Guggenheim-like hard-core volume expressions
Publication: Research - peer-review › Journal article – Annual report year: 2002

A Flory-Huggins model based on the Hansen Solubility Parameters
Lindvig, T., Michelsen, M. L. & Kontogeorgis, G. 2002 In : Fluid Phase Equilibria. 203, 1, p. 247-260
Publication: Research - peer-review › Journal article – Annual report year: 2002

An improved entropic expression for polymer solutions
Publication: Research - peer-review › Journal article – Annual report year: 2002

Application of the CPA Equation of State to Industrially Important Systems
Kouskoumvekaki, I., Michelsen, M. L. & Kontogeorgis, G. 2002
Publication: Research › Poster – Annual report year: 2002

Free-volume activity coefficient models for dendrimer solutions
Publication: Research - peer-review › Journal article – Annual report year: 2002

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

Modeling of Phase Equilibria Containing Associating Fluids
Publication: Research › Ph.D. thesis – Annual report year: 2002

Phase Equilibria for Complex Polymer Solutions
Publication: Research - peer-review › Conference article – Annual report year: 2002
An interpretation of the behavior of EoS/GE models for asymmetric systems
Publication: Research - peer-review › Journal article – Annual report year: 2000

Application of the sCPA equation of state to polymer solutions
Publication: Research - peer-review › Journal article – Annual report year: 2000

General Form of the Cross Energy Parameter of Equations of State
Publication: Research - peer-review › Journal article – Annual report year: 2000

Models for Surfactant Systems
Publication: Research › Report – Annual report year: 2000

The Mystery of the Van der Waals Equation
Kontogeorgis, G. & Coutsikos, P. H. 2000 Technical University of Denmark, Department of Chemical Engineering.
Publication: Research › Report – Annual report year: 2000

Mathematics in Materials Science
Publication: Research - peer-review › Book chapter – Annual report year: 1999

Polymeric Materials - introduction and degradation
Kontogeorgis, G. 1999
Publication: Research - peer-review › Book – Annual report year: 1999

Theoretical considerations on combining rules for cubic equations of state
Publication: Research - peer-review › Book chapter – Annual report year: 1999

A novel method for investigating the repulsive and attractive parts of cubic equations of state and the combining rules used with the vDW-1f theory
Publication: Research - peer-review › Journal article – Annual report year: 1998

Critical constants and acentric factors for long-chain alkanes suitable for corresponding states applications: A critical review
Kontogeorgis, G. & Dimitrios, T. 1997 In : Chemical Engineering Journal. 66, 1, p. 35-49
Publication: Research - peer-review › Journal article – Annual report year: 1997

Improved models for the prediction of activity coefficients in nearly athermal mixtures .2. A theoretically-based G(E)-model based on the van der Waals partition function
Publication: Research - peer-review › Journal article – Annual report year: 1997

Method for estimating critical properties of heavy compounds suitable for cubic equations of state and its application to the prediction of vapor pressures
Publication: Research - peer-review › Journal article – Annual report year: 1997
A molecular simulation-based method for the estimation of activity coefficients for alkane solutions
Kontogeorgis, G., Epaminondas, V. & Dimitrios, T. 1996 In : Chemical Engineering Science. 51, 12, p. 3247-3255
Publication: Research - peer-review › Journal article – Annual report year: 1996

Application of the van der Waals equation of state to polymers .4. Correlation and prediction of lower critical solution temperatures for polymer solutions
Publication: Research - peer-review › Journal article – Annual report year: 1996

Henry constants in polymer solutions with the van der Waals equation of state
Publication: Research - peer-review › Journal article – Annual report year: 1996

Liquid-liquid equilibria for polymer solutions and blends: A review
Publication: Research - peer-review › Book chapter – Annual report year: 1996

Miscibility of polymer blends: a comparison of engineering models
Publication: Research - peer-review › Book chapter – Annual report year: 1996

Miscibility of polymer blends with engineering models
Publication: Research - peer-review › Journal article – Annual report year: 1996

Thermodynamics and Property Databases
Publication: Research - peer-review › Book chapter – Annual report year: 1996

Projects:

Solvent Molecular Design Process Synthesis and Energy Requirements in Chemical and Biochemical Processes
Chen, Y., Woodley, J., Gani, R. & Kontogeorgis, G.
01/11/2017 → 31/10/2020
Project: PhD

Phase Behavior of Inhomogeneous Fluids
Camacho Vergara, E. L., Kontogeorgis, G. & Liang, X.
01/11/2016 → 31/10/2019
Project: PhD

Chemical & Biochemical Sustainable Process Synthesis - Intensification
Garg, N., Woodley, J., Gani, R. & Kontogeorgis, G.
15/10/2016 → 14/10/2019
Project: PhD
Models for estimation and analyses of emissions from chemical processes and products
Jhamb, S. V., Gani, R., Dam-Johansen, K., Kontogeorgis, G. & Liang, X.
01/10/2016 → 30/09/2019
Project: PhD

Thermodynamic Modeling of CO2 Gas Hydrate Formation Systems
Sun, L., Kontogeorgis, G. & Liang, X.
01/10/2016 → 30/09/2019
Project: PhD

Energy Efficiency Hybrid Separation Process with Ionic Liquid
Liu, X., Gani, R., Kontogeorgis, G. & Liang, X.
01/09/2016 → 31/08/2019
Project: PhD

Thermodynamics, Design, Simulation and Benchmarking of Biofuel Processes
Torli, M., Fosbøl, P. L. & Kontogeorgis, G.
01/06/2016 → 31/05/2019
Project: PhD

Thermodynamics of Petroleum Fluids relevant to Subsea Processing
Kruger, F., von Solms, N. & Kontogeorgis, G.
01/04/2016 → 31/03/2019
Project: PhD

Systematic computer aided methods and tools for lipids process technology
Ana Perederic, O., Woodley, J., Gani, R., Kontogeorgis, G. & Sarup, B.
15/09/2015 → 14/09/2018
Project: PhD

Application of an association equation of state to enchanced oil recovery processes
Pinto Coelho Muniz Vinhal, A., Kontogeorgis, G. & Yan, W.
01/05/2015 → 30/04/2018
Project: PhD

Sustainable process design with process intensification
Frauzem, R., Gani, R., Woodley, J., Kontogeorgis, G., Bode, A. & Zondervan, E.
01/10/2014 → 14/12/2017
Project: PhD

Computer-aided Mixture and Blend Design
Cignitti, S., Woodley, J., Abildskov, J., Gernaey, K. V., Kontogeorgis, G., Camarda, K. V. & Kate, A. J. B. T.
15/09/2014 → 13/10/2017
Project: PhD

Development of the Electrolyte CPA Equation of State
Schlaikjer, A. T., Kontogeorgis, G. & Thomsen, K.
01/06/2014 → 02/01/2018
Project: PhD

Modeling of Asphaltene systems with Association Models
Arya, A., Kontogeorgis, G., von Solms, N., Yan, W., Sørensen, H. & Vargas, F. M.
01/01/2014 → 26/04/2017
Project: PhD
Predictive modeling of gas diffusion and solubility in polymers for offshore pipelines
01/12/2013 → 30/06/2017
Project: PhD

Modeling and Synthesis of Pharmaceutical processes: Moving from Batch to Continuous Manufacturing
01/10/2013 → 18/11/2016
Project: PhD

An experimental and theoretical study of CO2 hydrate formation systems
Tzirakis, F., Kontogeorgis, G., von Solms, N., Thomsen, K., Herri, J. & Lindeloff, N.
01/06/2013 → 21/06/2017
Project: PhD

Property Modelling and Process Design involving complex chemical systems
01/06/2013 → 18/08/2016
Project: PhD

Synthesis and design of Water/wastewater networks
Handani, Z. B., Kontogeorgis, G. & Dam-Johansen, K.
01/05/2013 → 31/12/2017
Project: PhD

Thermodynamic modeling of CO2 hydrates
Bjørner, M. G., Kontogeorgis, G., von Solms, N., Gross, J. & Karakatsani, E.
01/06/2012 → 26/05/2016
Project: PhD

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

Modelling of phase equilibria and related properties of mixtures involving lipids
Cunico, L., Gani, R., Sarup, B., Kontogeorgis, G., Sales Cruz, A. M. & Jaubert, J.
01/02/2012 → 13/05/2015
Project: PhD

CO2 Hydrates-Challenges and Possibilities
Kontogeorgis, G.
08/11/2011 → 30/06/2014
Project
Thermodynamic modelling in oil-sea water mixtures
Liang, X., Kontogeorgis, G., Thomsen, K., Yan, W., von Solms, N., Lindeloff, N. & Sadowski, G.
15/08/2011 → 26/11/2014
Project: PhD

Systematic methodology for design of emulsion based chemical products
Mattei, M., Gani, R., Kontogeorgis, G., Gernaey, K. V., Kate, A. J. B. T. & Wiebe, L.
01/08/2011 → 30/09/2014
Project: PhD

Measurement and modelling of phase equilibrium of oil-water polar chemicals
01/06/2011 → 11/03/2015
Project: PhD

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

Rason
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

Thermodynamic Modeling for CO2 Capture Systems
Arshad, M. W., Thomsen, K., von Solms, N., Kontogeorgis, G., Karlsson, H. T. & Knudsen, K.
15/09/2010 → 26/11/2014
Project: PhD

Development of an Electrolyte CPA Equation of state for Applications in the Petroleum and Chemical Industries
Maribo-Mogensen, B., Kontogeorgis, G., Thomsen, K., von Solms, N., Anderko, A. & Hemptinne, J. D.
01/08/2010 → 02/07/2014
Project: PhD

Model Based Integrated Process-Product Design - retrofitting and optimisation
01/07/2010 → 30/09/2013
Project: PhD

Molecular Rheology of Complex Fluids
Huang, Q., Hassager, O., Rasmussen, H. K., Skov, A. L., Kontogeorgis, G., Ianniruberto, G. & Vlassopoulos, D.
01/02/2010 → 19/04/2013
Project: PhD

Thermodynamic and Process Modelling of Gas Hydrate Systems in CO2 Capture Processes
Herslund, P. J., von Solms, N., Abildskov, J., Thomsen, K., Kontogeorgis, G., Hendriks, E. M. & Peter, E.
01/02/2010 → 26/02/2014
Project: PhD
CHIGP DONG
Kontogeorgis, G.
01/01/2010 → 31/03/2013
Project

Heterogeneously catalysed reactions in supercritical carbon dioxide as innovative and green solvent
15/12/2009 → 28/01/2013
Project: PhD

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

Development and Analysis of Group-Contribution plus Models for Property Prediction of Organic Chemical Systems
01/04/2009 → 19/03/2013
Project: PhD

Thermodynamic Modelling of Acid Gases - Alkanolamine Systems
Sadegh, N., Thomsen, K., Stenby, E. H., Kontogeorgis, G., Knudsen, K. & Koch, O.
01/04/2009 → 21/05/2013
Project: PhD

Distribution of Complex Chemicals in Oil-Water Systems
Riaz, M., Kontogeorgis, G., Stenby, E. H., Yan, W., von Solms, N., Hemptinne, J. D. & Knudsen, K.
01/04/2008 → 08/02/2012
Project: PhD

Catalytic reactions in Supercritical Fluids
Beier, M. J., Jensen, A. D., Grunwaldt, J., Kontogeorgis, G., Riisager, A., Herbst, K. & Muhler, M.
15/02/2008 → 13/04/2011
Project: PhD

Thermodynamic Properties and Phase Equilibria from Fluctuation Solution Theory
Ellegaard, M. D., Abildskov, J., Kontogeorgis, G., Crafts, P. & Sadowski, G.
01/02/2008 → 15/06/2011
Project: PhD

Extension of Association Models to Complex Chemicals
01/08/2007 → 09/02/2011
Project: PhD

Migration of Plasticizers from PVC and Other Polymers
01/07/2007 → 09/02/2011
Project: PhD

Process-Product Synthesis, Design and Analysis through the Group- Contribution Approach
01/04/2007 → 01/09/2010
Project: PhD
Design of CO2 Capture Units using Aqueous Alkanolamines
Faramarzi, L., Kontogeorgis, G., Stenby, E. H., Thomsen, K., Shapiro, A., Behrens, P. K. & van Well, W. J. M.
15/02/2007 → 01/09/2010
Project: PhD

Multiphase Equilibrium in Systems with Production Chemicals
Fonseca, J., von Solms, N., Kontogeorgis, G., Richon, D. & Solbraa, E.
15/01/2007 → 30/09/2010
Project: PhD

Molecular Design using Grid Technology
01/06/2006 → 23/09/2009
Project: PhD

Development of Group Contriburation plus Models for Properties of Organic Chemical Systems
Gonzalez Villalba, H. E., Gani, R., Abildskov, J., Kontogeorgis, G., Cisneros, E. S. P. & Schiller, M.
01/10/2005 → 26/08/2009
Project: PhD

Computer-Aided Product Design using the PC-SAFT Equation of State
Tihic, A., Kontogeorgis, G., Michelsen, M. L., von Solms, N., Thomsen, K., Dahl, S. & Hemptinne, J. D.
01/06/2005 → 25/09/2008
Project: PhD

Development of Derivatized Hyaluronic Acid and Formulation of Nanocapsules for Delivery of Cosmetic Actives and Pharmaceutical Drugs
15/05/2005 → 03/11/2008
Project: PhD

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

Modelling and Design of Chemically Formulated Products
01/11/2004 → 26/06/2008
Project: PhD

Design of an All-Polymer Micro Pump
01/10/2004 → 25/03/2008
Project: PhD

CO2 Capture from Coal Fired Power Plants
01/11/2003 → 16/02/2007
Project: PhD

Modelling of Complex Mixtures Containing Hydrogen Bonding Molecules using CPA EOS
01/11/2003 → 22/01/2007
Project: PhD
CHIGP Statoil
Kontogeorgis, G.
03/07/2003 → 31/12/2014
Project

Experimental Studies and Modeling of Asphaltene Precipitation Caused by Gas Injection
01/05/2003 → 01/09/2006
Project: PhD

A Group Contribution Cubic Equation of State for Paints
01/02/2001 → 22/04/2004
Project: PhD

Prediction of the solubility of polymers in aqueous and mixed solvents
Lindvig, T., Kontogeorgis, G., Michelsen, M. L., Mollerup, J., Eibro, H. S. & Sadowski, G.
15/02/2000 → 24/11/2003
Project: PhD

Phase behavior of Aqueous of Surfactant Solution
Cheng, H., Stenby, E. H., Kontogeorgis, G., Ivar Andersen, S., Birdi, K. S. & Maurer, G.
01/01/2000 → 26/02/2004
Project: PhD

Fasefordeling af produktionskemikalier
Derawi, S., Stenby, E. H., Kontogeorgis, G., Ivar Andersen, S., Economou, I. & Knudsen, K.
01/05/1999 → 21/02/2003
Project: PhD

Termodynamisk model for korrelation af opløseligheden af aminosyrer i vandige opløsninger
Breil, M. P., Mollerup, J., Kontogeorgis, G., Hansen, E. & Maurer, G.
01/10/1998 → 14/03/2002
Project: PhD

Fluid phase equilibria of polymer solutions
Kontogeorgis, G. & Rasmussen, P.
01/04/1992 → 18/04/1995
Project: PhD

Activities:

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

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
Kontogeorgis, G. (Speaker)
1 Jan 2011 → …
Activity: Talks and presentations › Conference presentations