Wei Yan - DTU Orbit (20/05/2018)

Yan, Wei
weya@kemi.dtu.dk

Center for Energy Resources Engineering
Centre for oil and gas – DTU
Department of Chemistry - Senior Researcher
Department of Chemical and Biochemical Engineering - Associate Professor
CERE – Center for Energy Ressources Engineering

Publications:

Influence of Adsorption and Capillary Pressure on Phase Equilibria Inside Shale Reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2018

Modeling of Shale Gas Adsorption and its Influence on Phase Equilibrium
Publication: Research - peer-review › Journal article – Annual report year: 2018

Near-wellbore modeling of a horizontal well with Computational Fluid Dynamics
Publication: Research - peer-review › Journal article – Annual report year: 2018

RAND-Based Formulations for Isothermal Multiphase Flash
Publication: Research - peer-review › Journal article – Annual report year: 2018

17th International Conference on Petroleum Phase Behavior and Fouling
von Solms, N., Yan, W. & Andersen, S. 2017 In : Energy and Fuels. 31, 4, p. 3329-3329
Publication: Research - peer-review › Editorial – Annual report year: 2017

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

Calculation of Multiphase Chemical Equilibrium by the Modified RAND Method
Publication: Research - peer-review › Journal article – Annual report year: 2017

Calculation of simultaneous chemical and phase equilibrium by the methodof Lagrange multipliers
Tsanas, C., Stenby, E. H. & Yan, W. 2017 In : Chemical Engineering Science. 174, p. 112-126
Publication: Research - peer-review › Journal article – Annual report year: 2017

Comparison of GERG-2008 and simpler EoS models in calculation of phase equilibrium and physical properties of natural gas related systems
Varzandeh, F., Stenby, E. H. & Yan, W. 2017 In : Fluid Phase Equilibria. 434, p. 21-43
Publication: Research - peer-review › Journal article – Annual report year: 2016
Density and Compressibility of Multicomponent n-Alkane Mixtures up to 463 K and 140 MPa
Regueira, T., Glykioti, M-L., Stenby, E. H. & Yan, W. 2017 In : Journal of Chemical and Engineering Data. 63, 4, p. 1072-1080
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

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

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

General approach to characterizing reservoir fluids for EoS models using a large PVT database
Publication: Research - peer-review › Journal article – Annual report year: 2017

Heat capacity and Joule-Thomson coefficient of selected n-alkanes at 0.1 and 10 MPa in broad temperature ranges
Publication: Research - peer-review › Journal article – Annual report year: 2017

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

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

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

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

General Approach to Characterize Reservoir Fluids Using a Large PVT Database
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Release of Crude Oil from Silica and Calcium Carbonate Surfaces: On the Alternation of Surface and Molecular Forces by High- and Low-Salinity Aqueous Salt Solutions
Publication: Research - peer-review › Journal article – Annual report year: 2016
Distribution of Complex Chemicals in Oil-Water Systems
Publication: Research › Ph.D. thesis – Annual report year: 2012

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

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

CO2 Flooding in Chalk Reservoirs
Publication: Research › Ph.D. thesis – Annual report year: 2010

In-Situ Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography
Publication: Research - peer-review › Journal article – Annual report year: 2010

In-Situ Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooding Chalk Using X-Ray Computed Tomography
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
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
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
PVT Modeling of Reservoir Fluids using PC-SAFT EoS and Soave-BWR EOS
Yan, W. & Stenby, E. H. 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

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

Application of the CPA equation of state to reservoir fluids in presence of water and polar chemicals
Yan, W., Kontogeorgis, G. & Stenby, E. H. 2009

Coupling Miscible Flow and Geochemistry for Carbon Dioxide Flooding into North Sea Chalk Reservoir
Niu, B., Yan, W., Shapiro, A. & Stenby, E. H. 2009

Measurements and Modelling of CO2 Solubility in Brine and CO2-Saturated Brine Densities at High Pressures
Yan, W., Huang, S. & Stenby, E. H. 2009

Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography
Niu, B., Yan, W., Shapiro, A. & Stenby, E. H. 2009

The Influence of CO2 Solubility in Brine on CO2 Flooding Simulation
Yan, W. & Stenby, E. H. 2009

Capture and Storage Projects at IVC-SEP

The Influence of CO2 Solubility in Brine on CO2 Flooding Simulation
Yan, W. & Stenby, E. H. 2008

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
Application of CPA to Reservoir Fluids in Presence of Water and Other Associating Compounds
Yan, W., Kontogeorgis, G. & Stenby, E. H. 2006 ESAT 2006 22nd European Symposium on Applied Thermodynamics. p. 80-83
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Application of CPA to Reservoir Fluids in Presence of Water and Other Associationg Compounds
Yan, W., Kontogeorgis, G. & Stenby, E. H. 2006
Publication: Research - peer-review › Poster – Annual report year: 2006

Application of Advanced Thermodynamic Models for Complex Fluids and Reservoirs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Three-phase Compositional Streamline Simulation and Its Application to WAG
Yan, W., Michelsen, M. L., Stenby, E. H., Berenblyum, R. & Shapiro, A. 2004
Publication: Research - peer-review › Paper – Annual report year: 2004

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

Interfacial Tension of (Methane + Nitrogen) + Water and (Carbon Dioxide + Nitrogen) + Water Systems
Yan, W., Zhao, G-Y., Chen, G-J. & Guo, T-M. 2001 In : Journal of Chemical and Engineering Data. 46, p. 1544-1548
Publication: Research - peer-review › Journal article – Annual report year: 2001

Projects:

Characterization of the non-uniform fluid distribution in tight petroleum reservoirs
Baghooee, H., Shapiro, A., Lassen, C. & Yan, W.
01/05/2018 → 30/04/2021
Project: PhD

Experimental investigation of gas injection processes for enhanced oil recovery
Tagliaferri, S., Feilberg, K. L., Shapiro, A. & Yan, W.
15/03/2018 → 14/03/2021
Project: PhD

High Pressure Phase Behavior of Asymmetric Mixtures for Oil Production
Liu, Y., Yan, W., Regueira Muñiz, T. & Stenby, E. H.
01/02/2017 → 31/01/2020
Project: PhD

Analysis of reservoir water samples and injected sea water for enhanced oil recovery
Nitsche Gottfredsen, S., Feilberg, K. L. & Yan, W.
01/11/2016 → 31/10/2019
Project: PhD

Estimation of Matrix Flow contribution in naturally fractured reservoirs
Brand Ferrell, J., Shapiro, A., Stenby, E. H. & Yan, W.
01/09/2015 → 31/08/2018
Project: PhD

Application of an association equation of state to enhanced oil recovery processes
Pinto Coelho Muniz Vinhal, A., Kontogeorgis, G. & Yan, W.
01/05/2015 → 30/06/2018
Project: PhD

Computation of Simultaneous Phase and Chemical Equilibrium
Tsanas, C., Yan, W., Stenby, E. H., Kontogeorgis, G., Jessen, K. & Solbraa, E.
15/12/2014 → 15/01/2018
Project: PhD

Compositional Simulation of Heavy Oil Production with Steam and Solvent
Paterson, D., Yan, W., Michelsen, M. L., Stenby, E. H., Henriksen, N. E., Hendriks, E. M. & Montel, F.
01/09/2014 → 13/12/2017
Project: PhD

Compositional Reservoir Simulation Involving Complex Pase Equilibria
Sandoval Lemus, D. R., Yan, W., Michelsen, M. L., Stenby, E. H., Shapiro, A., Galliéro, G. & Koch, O.
01/07/2014 → 30/09/2017
Project: PhD

Modeling of Asphaltene systems with Association Models
Arya, A., Kontogeorgis, G., von Solms, N., Yan, W., Sørensen, H. & Vargass, F. M.
01/01/2014 → 26/04/2017
Project: PhD

Study of High Pressure and High Temperature Reservoir Fluids
Varzandeh, F., Yan, W., Stenby, E. H., Møller, K. B., Lindeloff, N. & Montel, F.
15/12/2013 → 25/08/2017
Project: PhD

Enchanced Oil Recovery with Application of Microorganisms
Halim, A. Y., Shapiro, A., Eliasson Lantz, A., Nielsen, S. M., Yan, W., Alkan, H. & Zahid, A.
01/02/2012 → 01/07/2015
Project: PhD

Enchanced Oil Recovery with Application of Enzymes
Khusainova, A., Shapiro, A., Woodley, J., Yan, W., Ivar Andersen, S. & Skauge, A.
01/12/2011 → 26/05/2016
Project: PhD

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

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

Advanced Waterflooding in Low Permeable Carbonate Reservoirs
Zahid, A., Shapiro, A., Stenby, E. H., Yan, W., Thomsen, K., Christensen, H. F. & Spildo, K.
01/01/2009 → 27/06/2012
Project: PhD

Multiphase flows in porous media
Zhang, X., Shapiro, A., Stenby, E. H., Yan, W. & Øbro, H.
01/09/2008 → 14/12/2011
Enhanced Oil Recovery with Surfactant Flooding
Sandersen, S. B., von Solms, N., Stenby, E. H., Yan, W., Skauge, A. & Sparsø, F. V.
01/05/2008 → 27/06/2012
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

CO2 Injection in Low Permeable Oil and Gas Reservoir
Niu, B., Shapiro, A., Stenby, E. H., Yan, W., von Solms, N. & Skauge, A.
15/09/2006 → 21/12/2010
Project: PhD