

PUBLICATIONS

Refereed Journal Articles

1. Lai, Q.; Diao, Z.; Kong, L.; Adidharma, H.; Fan, M. Amine-impregnated silicic acid composite as an efficient adsorbent for CO₂ capture. *Appl. Energy*, **2018**, *223*, 293-301.
2. Neuberger, N.; Adidharma, H.; Fan, M. Graphene: A review of applications in the petroleum industry. *J. Pet. Sci. Eng.*, **2018**, *167*, 152-159.
3. Kong, L.; Adidharma, H. Adsorption of simple square-well fluids in slit nanopores: Modeling based on Generalized van der Waals partition function and Monte Carlo simulation. *Chem. Eng. Sci.*, **2018**, *177*, 323-332.
4. Lu, W.; He, T.; Xu, B.; He, X.; Adidharma, H.; Radosz, M.; Gasem, K.; Fan, M. Progress in catalytic synthesis of advanced carbon nanofibers. *J. Mater. Chem. A*, **2017**, *5*, 13863-13881.
5. Huang, X.; Wang, X.; Fan, M.; Wang, Y.; Adidharma, H.; Gasem, K.; Radosz, M. A cost-effective approach to reducing carbon deposition and resulting deactivation of oxygen carriers for improvement of energy efficiency and CO₂ capture during methane chemical-looping combustion. *Appl. Energy*, **2017**, *193*, 381-392.
6. Xu, X.; Chen, Y.; Wan, P.; Gasem, K.; Wang, K.; He, T.; Adidharma, H.; Fan, M. Extraction of lithium with functionalized lithium ion-sieves", *Prog. Mater. Sci.*, **2016**, *84*, 276-313.
7. Adidharma, H.; Tan, S.P. Accurate Monte Carlo simulations on FCC and HCP Lennard-Jones solids at very low temperatures and high reduced densities up to 1.30. *J. Chem. Phys.*, **2016**, *145*, 014503.
8. Jiang, H.; Adidharma, H. Study of thermodynamic properties of symmetric and asymmetric electrolyte systems in mixture with neutral components: Monte Carlo simulation results and integral equation predictions. *Molec. Simul.*, **2015**, *41*, 727-734.
9. Tan, S. P.; Kargel, J. S.; Jennings, D. E.; Mastrogioseppe, M.; Adidharma, H.; Marion, G. M. Titan's liquids: Exotic behavior and its implications on global fluid circulation. *Icarus*, **2015**, *250*, 64-75.
10. Jiang, H.; Adidharma, H. Monte Carlo simulation and equation of state for flexible charged hard-sphere chain fluids: Polyampholyte and polyelectrolyte solutions. *J. Chem. Phys.*, **2014**, *141*, 174906.
11. Tan, S. P.; Adidharma, H.; Kargel, J. S.; Marion, G. M. Equation of state for solid solution-liquid-vapor equilibria at cryogenic conditions. *Fluid Phase Equilib.*, **2013**, *360*, 320-331.
12. Jiang, H.; Adidharma, H. Thermodynamic Modeling of Aqueous Ionic Liquid Solutions and Prediction of Methane Hydrate Dissociation Conditions in the Presence of Ionic Liquid. *Chem. Eng. Sci.*, **2013**, *102*, 24-31.
13. Richard, A. R.; Adidharma, H. The Performance of Ionic Liquids and Their Mixtures in Inhibiting Methane Hydrate Formation. *Chem. Eng. Sci.*, **2013**, *87*, 270-276.
14. Jiang, H.; Adidharma, H. Prediction of Hydrate Dissociation Conditions for Alkanes in the Presence of Alcohol and Electrolyte Solutions Using Ion-Based Statistical Associating Fluid Theory. *Chem. Eng. Sci.*, **2012**, *82*, 14-21.
15. Jiang, H.; Adidharma, H. Modeling of Hydrate Dissociation Conditions for Alkanes in the Presence of Single and Mixed Electrolyte Solutions Using Ion-Based Statistical Associating Fluid Theory. *Ind. Eng. Chem. Res.*, **2012**, *51*, 5818-5825.
16. Dutcher, B.; Krutkramelis, K.; Adidharma, H.; Radosz, M. Carbon Filter Process for Flue-Gas Carbon Capture on Carbonaceous Sorbents: Field Test of Steam Aided-Vacuum Swing Adsorption. *Energy & Fuels*, **2012**, *26*, 2539-2545.
17. Ji, X.; Adidharma, H. Prediction of Molar Volume and Partial Molar Volume for CO₂/Ionic Liquid Systems with Heterosegmented Statistical Associating Fluid Theory. *Fluid Phase Equilib.*, **2012**, *315*, 53-63.
18. Jiang, H.; Adidharma, H. Hydrate Equilibrium Modeling for Pure Alkanes and Mixtures of Alkanes Using Statistical Associating Fluid Theory. *Ind. Eng. Chem. Res.*, **2011**, *50*, 12815-12823.
19. Dutcher, B.; Adidharma, H.; Radosz, M. Carbon Filter Process for Flue-Gas Carbon Capture on Carbonaceous Sorbents: Steam-Aided Vacuum Swing Adsorption Option. *Ind. Eng. Chem. Res.*, **2011**, *50*, 9696-9703.
20. Ji, X.; Adidharma, H. Thermodynamic Modeling of CO₂ Solubility in Ionic Liquid with Heterosegmented Statistical Associating Fluid Theory. *Fluid Phase Equilib.*, **2010**, *293*, 141-150.
21. Xiao, C.; Wibisono, N.; Adidharma, H. Dialkylimidazolium Halide Ionic Liquids as Dual Function Inhibitors for Methane Hydrate. *Chem. Eng. Sci.*, **2010**, *65*, 3080-3087.
22. Ji, X.; Adidharma, H. Thermodynamic Modeling of Ionic Liquid Density with Heterosegmented Statistical Associating Fluid Theory. *Chem. Eng. Sci.*, **2009**, *64*, 1985-1992.
23. Xiao, C.; Adidharma, H. Dual Function Inhibitors for Methane Hydrate. *Chem. Eng. Sci.*, **2009**, *64*, 1522-1527.

24. Tan, S. P.; Adidharma, H.; Radosz, M. Recent Advances and Applications of Statistical Associating Fluid Theory. *Ind. Eng. Chem. Res.*, **2008**, *47*, 8063-8082.
25. Ji, X.; Adidharma, H. Ion-based SAFT2 to Represent Aqueous Multiple-Salt Solutions at Ambient and Elevated Temperatures and Pressures. *Chem. Eng. Sci.*, **2008**, *63*, 131-140.
26. Ji, X.; Adidharma, H. Ion-Based Statistical Associating Fluid Theory (SAFT2) to Represent Aqueous Single-Salt Solutions at Temperatures and Pressures up to 473.15 K and 1000 bar. *Ind. Eng. Chem. Res.*, **2007**, *46*, 4667-4677.
27. Yang, F.; Zhao, G-B.; Adidharma, H.; Towler, B.F.; Radosz, M. Effect of Oxygen on Minimum Miscibility Pressure in Carbon Dioxide Flooding. *Ind. Eng. Chem. Res.*, **2007**, *46*, 1396-1401
28. Zhao, G-B.; Adidharma, H.; Towler, B.F.; Radosz, M. Using a Multiple-Mixing-Cell Model to Study Minimum Miscibility Pressure Controlled by Thermodynamic Equilibrium Tie Lines. *Ind. Eng. Chem. Res.*, **2006**, *45*, 7913-7923.
29. Ji, X.; Adidharma, H. Ion-Based SAFT2 to Represent Aqueous Single- and Multiple-Salt Solutions at 298.15 K. *Ind. Eng. Chem. Res.*, **2006**, *45*, 7719-7728.
30. Ji, X.; Tan, S.P.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory Coupled with Restrictive Primitive Model Extended to Bivalent Ions. SAFT2: II. Brine/Seawater Properties Predicted. *J. Phys. Chem. B*, **2006**, *110*, 16700-16706.
31. Tan, S.P.; Ji, X.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory Coupled with Restrictive Primitive Model Extended to Bivalent Ions. SAFT2: I. Single Salt + Water Solutions. *J. Phys. Chem. B*, **2006**, *110*, 16694-16699.
32. Winoto, W.; Adidharma, H.; Shen, Y.; Radosz, M. Micellization Temperature and Pressure for Polystyrene-block-polyisoprene in Subcritical and Supercritical Propane. *Macromolecules*, **2006**, *39*, 8140-8144.
33. Kiselev, S.B.; Ely, J.F.; Tan, S.P.; Adidharma, H.; Radosz, M. Crossover HR-SAFT Equation of State for Fluid Mixtures: Application to Binary Mixtures of Carbon Dioxide, Water, and Methanol. *Ind. Eng. Chem. Res.*, **2006**, *45*, 3981-3990.
34. Tan, S.P.; Adidharma, H.; Towler, B.F.; Radosz, M. Friction Theory Coupled with Statistical Associating Fluid Theory for Estimating the Viscosity of n-Alkane Mixtures. *Ind. Eng. Chem. Res.*, **2006**, *45*, 2116-2122.
35. Ji, X.; Tan, S.P.; Adidharma, H.; Radosz, M. The SAFT1-RPM Approximation Extended to Phase Equilibria and Densities of CO₂-H₂O and CO₂-H₂O-NaCl Systems. *Ind. Eng. Chem. Res.*, **2005**, *44*, 8419-8427.
36. Tan, S.P.; Adidharma, H.; Towler, B.F.; Radosz, M. Friction Theory and Free-Volume Theory Coupled with Statistical Associating Fluid Theory for Estimating the Liquid and Vapor Viscosity of Pure n-Alkanes. *Ind. Eng. Chem. Res.*, **2005**, *44*, 8409-8418.
37. Ji, X.; Tan, S.P.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory Coupled with Restricted Primitive Model to Represent Aqueous Strong Electrolytes: Multiple-salt Solutions. *Ind. Eng. Chem. Res.*, **2005**, *44*, 7584-7590.
38. Tan, S.P.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory Coupled with Restricted Primitive Model To Represent Aqueous Strong Electrolytes. *Ind. Eng. Chem. Res.*, **2005**, *44*, 4442-4452.
39. Tan, S.P.; Meng, D.; Plancher, H.; Adidharma, H.; Radosz, M. Cloud Points for Polystyrene in Propane and Poly(4-methyl styrene) in Propane. *Fluid Phase Equilib.*, **2004**, *226*, 189-194.
40. Adidharma, H.; Radosz, M. The LJ-Solid Equation of State Extended to Thermal Properties, Chain Molecules, and Mixtures. *Ind. Eng. Chem. Res.*, **2004**, *43*, 6890-6897.
41. Tan, S.P.; Adidharma, H.; Radosz, M. Reply to Comments on "Generalized Procedure for Estimating the Fractions of Nonbonded Associating Molecules and Their Derivatives in Thermodynamics Perturbation Theory". *Ind. Eng. Chem. Res.*, **2004**, *43*, 6263-6264.
42. Tan, S.P.; Adidharma, H.; Radosz, M. Generalized Procedure for Estimating the Fractions of Nonbonded Associating Molecules and Their Derivatives in Thermodynamic Perturbation Theory. *Ind. Eng. Chem. Res.*, **2004**, *43*, 203-208.
43. Adidharma, H.; Radosz, M.; Luszczuk, M. Retrograde Melting Behavior in Polyolefin+Solvent+Antisolvent Solutions. *AIChE J.*, **2003**, *49*, 1044-1049.
44. Tan, S.P.; Adidharma, H.; Radosz, M. Weeks-Chandler-Andersen Model for Solid-Liquid Equilibria in Lennard-Jones Systems. *J. Phys. Chem. B*, **2002**, *106*, 7878-7881.

45. Adidharma, H.; [Tan, S.P.](#); Radosz, M. Prototype of an LJ-solid Equation of State Applied to Argon, Krypton, and Methane. *Molec. Phys.*, **2002**, *100*, 2559-2569.
46. Adidharma, H.; Radosz, M. Inclusion and Exclusion Approximations of Copolymer Solids Applied to Calculation Solid-Liquid Transitions. *Ind. Eng. Chem. Res.*, **2002**, *41*, 1774-1779.
47. Adidharma, H.; Radosz, M. SAFT1 for Associating Fluids: Alkanols. *J. Phys. Chem. B*, **2001**, *105*, 9822-9827.
48. Kiselev, S.B.; Ely, J.F.; Adidharma, H.; Radosz, M. A Crossover Equation of State for Associating Fluids, *Fluid Phase Equilib.*, **2001**, *183-184*, 53-64.
49. Chan, K. C.; Adidharma, H.; Radosz, M. Fluid-Liquid Transitions of Poly(ethylene-co-octene-1) in Supercritical Ethylene Solutions. *Ind. Eng. Chem. Res.*, **2000**, *39*, 4370-4375.
50. Chan, K. C.; Adidharma, H.; Radosz, M. Fluid-Liquid and Fluid-Solid Transitions of Poly(ethylene-co-octene-1) in Sub- and Supercritical Propane Solutions. *Ind. Eng. Chem. Res.*, **2000**, *39*, 3069-3075.
51. Kinzl, M.; Luft, G.; Adidharma, H.; Radosz, M. SAFT Modeling of Inert-Gas Effects on the Cloud-Point Pressures in Ethylene Copolymerization Systems: Poly(ethylene-co-vinyl acetate) + Vinyl Acetate + Ethylene and Poly(ethylene-co-hexene-1) + Hexene-1 + Ethylene with Carbon Dioxide, Nitrogen, or n-Butane. *Ind. Eng. Chem. Res.*, **2000**, *39*, 541-546.
52. Adidharma, H.; Radosz, M. A study of square-well statistical associating fluid theory approximations. *Fluid Phase Equilib.*, **1999**, *161*, 1-20.
53. Adidharma, H.; Radosz, M. Square-well SAFT equation of state for homopolymeric and heteropolymeric fluids. *Fluid Phase Equilib.*, **1999**, *158-160*, 165-174.
54. Adidharma, H.; Radosz, M. Prototype of an Engineering Equation of State for Heterosegmented Polymers. *Ind. Eng. Chem. Res.*, **1998**, *37*, 4453-4462.

Proceedings/Transactions

1. Jiang, H.; Nuryaningsih, L.; Adidharma H. The Influence of O₂ Contamination on MMP and Core Flood Performance in Miscible and Immiscible CO₂ WAG. SPE 154252, **2012**. (not refereed)
2. Jiang, H.; Nuryaningsih, L.; Adidharma H. The Study of Timing of Cyclic Injections in Miscible CO₂ WAG. SPE 153792, **2012**. (not refereed)
3. Nuryaningsih, L.; Jiang, H.; Adidharma H. Experimental Study on Optimum Half Cycle Slug Size of Water Alternating Gas under Tertiary Miscible Carbon Dioxide Flooding. SPE 139580, **2010**. (not refereed)
4. Jiang, H.; Nuryaningsih, L.; Adidharma H. The effect of Injection Brine Salinity on Water Alternating Gas Performance in Tertiary Miscible CO₂ Flooding: Experimental Study. SPE 132369, **2010**. (not refereed)

Books/Textbooks/Monographs/Chapters in Books

1. Toan, S.; Adidharma, H.; Nojabaei, B. *MATLAB for Chemical and Petroleum Engineering – 2nd edition*. CreateSpace, Charleston, **2017**.
2. Toan, S.; Adidharma, H.; Nojabaei, B. *MATLAB for Chemical and Petroleum Engineering*. CreateSpace, Charleston, **2016**.
3. Adidharma, H.; Temyanko, V. *Mathcad for Chemical Engineers – 2nd edition*. Trafford Publishing, Victoria, **2009**.
4. Adidharma, H.; Temyanko, V. *Mathcad for Chemical Engineers*. Trafford Publishing, Victoria, **2007**.

Other

1. Adidharma, H.; Radosz, M. Hydrates in High Inhibitor Concentration Systems. Research Report of Project 062 for Gas Processors Association (GPA), January 2012.
2. Adidharma, H.; Radosz, M. Carbon Capture from Coal Flue Gas on Carbonaceous Sorbents: Sorbent Characterization Phase 2. Technical Report for Electric Power Research Institute (EPRI), September 2010.

PRESENTED PAPERS/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

1. Tan, S. P.; Kargel, J. S.; Adidharma, H.; Marion, G. M. Influence of Minor Components on Solid Solutions in Nitrogen-Methane Atmospheres, AGU Fall Meeting, San Francisco, December 12-16, **2016**.
2. Tan, S. P.; Kargel, J. S.; Adidharma, H.; Marion, G. M. CRYOCHEM - Modeling of Titan's Liquid: The Effects of Hydrogen Cyanide, AGU Fall Meeting, San Francisco, December 14-18, **2015**.

3. Adidharma, H. The Statistical Associating Fluid Theory Equation of State: Development and Applications. Physical Chemistry Seminar, University of Wyoming – Department of Chemistry, Laramie, May 8, **2015**. (invited)
4. Tan, S. P.; Kargel, J. S.; Adidharma, H.; Marion, G. M. Thermodynamic Model for Cryogenic Chemical Systems, AGU Fall Meeting, San Francisco, December 15-19, **2014**.
5. Adidharma, H. Towards Meeting Industry Needs: A Review of SAFT Applications. AIChE Annual Meeting, San Francisco, November 3-8, **2013**. (invited)
6. Jiang, H.; Adidharma, H. Modeling of Alkane Hydrate Dissociation Conditions in the Presence of Electrolyte Solutions and Alcohols Using Ion-Based Statistical Associating Fluid Theory. AIChE Annual Meeting, Pittsburgh, Pennsylvania, October 28-November 2, **2012**.
7. Richard, A. R.; Adidharma, H. The Performance of Ionic Liquids and Their Mixtures in Inhibiting Methane Hydrate Formation. AIChE Annual Meeting, Pittsburgh, Pennsylvania, October 28-November 2, **2012**.
8. Adidharma, H.; Radosz, M. Hydrates in High Inhibitor Concentration Systems. GPA Research Meeting and 91st Annual GPA Convention. New Orleans, Louisiana, April 14-18, **2012**.
9. Jiang, H.; Nuryaningsih, L.; Adidharma H. The Influence of O₂ Contamination on MMP and Core Flood Performance in Miscible and Immiscible CO₂ WAG. Eighteenth SPE Improved Oil Recovery Symposium, Tulsa, Oklahoma, April 14-18, **2012**.
10. Jiang, H.; Nuryaningsih, L.; Adidharma H. The Study of Timing of Cyclic Injections in Miscible CO₂ WAG. SPE Western North American Regional Meeting, Bakersfield, California, March 19-23, **2012**.
11. Adidharma, H. Towards a complete thermodynamic description of geologic and industrial aqueous electrolyte systems: A Statistical Associating Fluid Theory approach. Helmholtz lecture - IAPWS 2011 Meeting, Plzeň, Czech Republic, September 4-9, **2011**. (invited)
12. Xiao, C.; Adidharma, H. New Application of Ionic Liquids as Inhibitors for Flow Assurance. AIChE Spring Meeting & 7th Global Congress on Process Safety, Chicago, Illinois, March 13-17, **2011**.
13. Nuryaningsih, L.; Jiang, H.; Adidharma H. Experimental Study on Optimum Half Cycle Slug Size of Water Alternating Gas under Tertiary Miscible Carbon Dioxide Flooding. SPE International Conference on CO₂ Capture, Storage, and Utilization, New Orleans, Louisiana, November 10-12, **2010**.
14. Krutkramelis, K.; Dutcher, B.; Adidharma H.; Radosz, M. Carbon Dioxide Capture with Activated Carbon: Pilot Unit Test Results. AIChE Annual Meeting, Salt Lake City, Utah, November 7-12, **2010**.
15. Krutkramelis, K.; Dutcher, B.; Adidharma H.; Radosz, M. Optimizing Carbon Sorbent Regeneration Separating CO₂ From Power-Plant Flue Gas On Carbon Sorbents. AIChE Annual Meeting, Salt Lake City, Utah, November 7-12, **2010**.
16. Dutcher, B.; Krutkramelis, K.; Adidharma H.; Radosz, M. Separating CO₂ from Coal Power-Plant Flue Gas on Carbon Sorbents. The 35th International Technical Conference on Clean Coal & Fuel Systems, Clearwater, Florida, June 6-10, **2010**.
17. Jiang, H.; Nuryaningsih, L.; Adidharma H. The effect of Injection Brine Salinity on Water Alternating Gas Performance in Tertiary Miscible CO₂ Flooding: Experimental Study. The 2010 SPE Western Regional Meeting, Anaheim, California, May 27-29, **2010**.
18. Ji, X.; Adidharma H. Thermodynamic Modeling of Ionic Liquid Density and CO₂ Solubility in Ionic Liquid with Heterosegmented Statistical Associating Fluid Theory. The 12th International Conference on Properties and Phase Equilibria for Product and Process Design, Suzhou, Jiangsu, China, May 16 - 21, **2010**.
19. Ji, X.; Adidharma H. Thermodynamic Modeling of Ionic Liquid Density with Heterosegmented Statistical Associating Fluid Theory. The 17th Symposium on Thermophysical Properties, Boulder, Colorado, USA, June 21 - 26, **2009**.
20. Xiao, C.; Adidharma, H. Dual Function Inhibitors for Methane Hydrate. AIChE Annual Meeting, Philadelphia, Pennsylvania, November 16-21, **2008**.
21. Adidharma, H. Chemical Engineering: New Frontiers. University of Widya Mandala, Surabaya, Indonesia, July 28, **2007**. (invited)
22. Ji, X.; Adidharma, H. Statistical Associating Fluid Theory Coupled with Restricted Primitive Model to Represent Brine/Seawater up to High Temperatures and Pressures. AIChE Annual Meeting, San Francisco, California, November 12-17, **2006**.

23. Winoto, W.; Adidharma, H.; Shen, Y.; Radosz, M. Critical Micelle Temperatures and Pressures for Polystyrene-Block-Polydiene in Subcritical and Supercritical Propane. AIChE Annual Meeting, San Francisco, California, November 12-17, **2006**.
24. Zhao, G-B.; Yang, F.; Adidharma, H.; Towler, B.F.; Radosz, M. A New Approach for Calculation of Minimum Miscibility Pressure Based on a Multiple-Mixing-Cell Model. AIChE Annual Meeting, San Francisco, California, November 12-17, **2006**.
25. Zhao, G-B.; Yang, F.; Adidharma, H.; Towler, B.F.; Radosz, M. Minimum Miscibility Pressure Prediction Using Statistical Associating Fluid Theory: Two- and Three-Phase Systems, SPE Annual Technical Conference & Exhibition, San Antonio, Texas, September 24–27, **2006**.
26. Ji, X.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory coupled with Restricted Primitive Model to Represent Aqueous Multiple-Salt Solutions. 19th International Conference on Chemical Thermodynamics, Boulder, Colorado, July 30 – August 4, **2006**.
27. Kiselev, S.B.; Ely, J.F.; Tan, S.P.; Adidharma, H.; Radosz, M. Crossover HR-SAFT Equation of State for Fluid Mixtures: Application to Binary Mixtures of Carbon Dioxide, Water, and Methanol. AIChE Annual Meeting, Cincinnati, Ohio, October 30-November 4, **2005**.
28. Ji, X.; Tan, S.P.; Adidharma, H.; Radosz, M. SAFT1-RPM Equation of State: Application to Phase Equilibria and Thermodynamic Properties of Carbon Dioxide + Aqueous Electrolyte Solutions. AIChE Annual Meeting, Cincinnati, Ohio, October 30-November 4, **2005**.
29. Tan, S.P.; Adidharma, H.; Towler, B.F.; Radosz, M. Friction Theory and Free-Volume Theory Coupled with Statistical Associating Fluid Theory in Viscosity Modeling: Pure n-Alkanes. AIChE Annual Meeting, Cincinnati, Ohio, October 30-November 4, **2005**.
30. Ji, X.; Tan, S.P.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory Coupled with Restricted Primitive Model to Represent Aqueous Strong Electrolytes: Multiple-Salt Solutions. AIChE Annual Meeting, Cincinnati, Ohio, October 30-November 4, **2005**.
31. Winoto, W.; Adidharma, H.; Sun, J.; Shen, Y.; Radosz, M. Phase Behavior of Polybutadiene-block-Polystyrene in Near-Critical and Supercritical Propane. International Symposium on Supercritical Fluids, Orlando, Florida, May 1-4, **2005**.
32. Adidharma, H. Molecular Science and Engineering of Petroleum Solids. Seminar, University of Wyoming – Department of Chemical and Petroleum Engineering, Laramie, February 18, **2005**.
33. Tan, S. P.; Adidharma, H.; Radosz, M. Statistical Associating Fluid Theory for Aqueous Electrolyte Solutions. AIChE Annual Meeting, San Francisco, California, November 16-21, **2003**.
34. Meng, D.; Plancher, H.; Tan, S. P.; Adidharma, H.; Radosz, M. Phase Behavior of Polystyrene and Polystyrene Derivatives in Propane. AIChE Annual Meeting, San Francisco, California, November 16-21, **2003**.
35. Tan, S. P.; Adidharma, H.; Radosz, M. Phase Diagram of the Aqueous Two-Phase Systems in Protein Recovery. Session: Ionic Liquids and Other Solvents. Fifteenth Symposium on Thermophysical Properties, Boulder, Colorado, June 22-27, **2003**.
36. Adidharma, H.; Radosz, M. Prototype of Engineering Equation of State for Solids. Session: Theory and Modeling of Thermophysical Properties. Fifteenth Symposium on Thermophysical Properties, Boulder, Colorado, June 22-27, **2003**.
37. Plancher, H.; Adidharma, H.; Radosz, M. High-Pressure Fluid-Liquid and Solid-Liquid Equilibria of Polyethylene, Polystyrene, and Poly(ethylene-co-styrene) in Propane. AIChE Annual Meeting, Indianapolis, Indiana, November 3-8, **2002**.
38. Adidharma, H.; Radosz, M.; Luszczuk, M. Retrograde Melting Behavior in Polyolefin+Solvent+Antisolvent Solutions. AIChE Annual Meeting, Indianapolis, Indiana, November 3-8, **2002**.
39. Adidharma, H.; Tan, S. P.; Radosz, M. Weeks-Chandler-Andersen Model for Solid-Liquid Equilibria. AIChE Annual Meeting, Indianapolis, Indiana, November 3-8, **2002**.
40. Adidharma, H. High-Pressure Solid-Liquid Phase Equilibria of Polymer Solutions. Seminar, University of Wyoming – Department of Chemical and Petroleum Engineering, Laramie, October, **2002**.
41. Adidharma, H. Prototype of a Lennard-Jones Solid Equation of State. Seminar, University of Wyoming – Department of Chemical and Petroleum Engineering, Laramie, December 3, **2001**.
42. Adidharma, H. Solid-Liquid Transition of Polymer Solutions: Melting and Crystallization. Seminar, University of Wyoming – Department of Chemical and Petroleum Engineering, Laramie, December 4, **2000**.

43. Adidharma, H.; Radosz, M. Practical SAFT1 Model for Associating Fluids: Application to 1-Alkanols and Polymers. 14th Symposium on Thermophysical Properties. Session: Polymer – Theory and Modeling, Boulder, Colorado, June 25-30, **2000**. (invited)
44. Kiselev, S.B.; Ely, J.F.; Adidharma, H.; Radosz, M. New-Crossover Equation of State for Associating Fluids. Fourteenth Symposium on Thermophysical Properties. Session: Chemical Process Design, Boulder, Colorado, June 25-30, **2000**.
45. Adidharma, H.; Radosz, M. How to Characterize and Approximate Polymer Crystallizability, and Its Inter- and Intra-molecular Non-uniformity, for Calculating Solid-Fluid Equilibria in Compressible Polyolefin Solutions. AIChE Annual Meeting, Dallas, Texas, November 1-5, **1999**.
46. Adidharma, H.; Radosz, M. Analysis of Square-Well SAFT Approximations. AIChE Annual Meeting, Dallas, Texas, November 1-5, **1999**.
47. Adidharma, H.; Radosz, M. Square-Well SAFT Equation of State for Homopolymeric and Heteropolymeric Fluids. Eighth International Conference on Properties and Phase Equilibria for Product and Process Design, Noordwijkerhout, The Netherlands, April 26 - May 1, **1998**.
48. Adidharma, H.; Radosz, M. Square-Well SAFT Parameters and Equations of State for Homopolymeric and Heteropolymeric Fluids. AIChE Spring National Meeting, New Orleans, March 8-12, **1998**.
49. Adidharma, H. Square-Well SAFT (Statistical Associating Fluid Theory) Equation of State. Macromolecular Studies Group Seminar, LSU-Chemistry, Baton Rouge, October 10, **1997**.
50. Adidharma, H. Square-Well SAFT (Statistical Associating Fluid Theory) Equation of State. Graduate Seminar, LSU-Chemical Engineering, Baton Rouge, March 7, **1997**.