1. Refereed Archival Journal Publications

2. R. Tavakoli, H. Yoon, M. Delshad, A.H. ElSheikh, M.F. wheeler, and B.W. Arnold, " A Comparison of Ensemble Filtering Algorithms and Null Space Monte Carlo for Parameter Estimation and Uncertainty Quantification of CO_2 Sequestration Data, " *Water Resources Research*, accepted, 2013.

3. A. Sharma, A. Azizi-Yarand, B. Clayton, G. Baker, P. McKinney, C. Britton, M. Delshad, and G.A. Pope, "The Design and Execution of an Alkaline-Surfactant-Polymer Pilot Test," *SPE Reservoir Evaluation & Engineering*, accepted (2013).

4. M. Roshanfekr, R.T. Johns, M. Delshad and G.A. Pope, "Modeling of Pressure and Solution Gas for Chemical Floods," *SPE Journal*, June 2013, p. 428-439.

5. M. Delshad, X. Kong, R. Tavakoli, S. Hosseini, and M.F. Wheeler, "Modeling and Simulation of Carbon Sequestration at Cranfield incorporating new Physical Models," *International Journal of Greenhouse Gas Control, March 2013.*

6. Kong, X.; M. Delshad; and M.F. Wheeler, "An Integrated Capillary, Buoyancy, and Viscous Driven Model for Brine/CO_2 Relative Permeability in a Compositional and Parallel Reservoir Simulator. Modeling and Simulation in Fluid Dynamics in Porous Media," *Springer Proceedings in Mathematics & Statistics*, **28**, 125-142 (2013). [10.1007/978-1-4614-5055-9-8].

7. M. Delshad, C. Han, F.K. Veedu, and G.A. Pope," A Simplified Model for Simulations of Alliance-Surfactant-Polymer Floods," *Journal of petroleum Science and Engineering*, 108 (2013) 1-9.

8. N. Fathi Najafabadi, C. Han, M. Delshad, and K. Sepehrnoori, "Development of a Three-Phase, Fully Implicit, Parallel Chemical Flood Simulator," *JSPT*, 2012.

9. A. Mollaei, L.W. Lake, and M. Delshad, "Application and Variance Based Sensitivity Analysis of Surfactant-Polymer Flooding Using Modified Chemical Flood Predictive Model" *J. Petrol Science and Engineering*, 79 (2011) 25-36.

10. H. Kalaei, Jinapor, M. Delshad, "Chemical Flooding Optimization Using the Experimental Design Approach and Response Surface Methodology," *Int. J. of Oil, Gas and Coal Technology*, 050302, 2012.

11. Shi, J.; Varavei, A.; Huh, C.; Delshad, M.; Sepehrnoori, K.; and Li, X. "Viscosity Model of Preformed Microgels for Conformance and Mobility Control," *Energy Fuels*, 2011, DOI: 10.1021/ef200408u.

12. Shi, J.; Varavei, A.; Huh, C.; Delshad, M.; Sepehrnoori, K.; and Li, X., "Transport model implementation and simulation of microgel processes," *Energy Fuels*, 2011, DOI: 10.1021/ef200835c.

13. G. Jackson, M. Balhoff, C. Huh, and M. Delshad, "CFD-Based Representation Of Non-Newtonian Polymer Injectivity for a Horizontal Well with Coupled Formation-Wellbore Hydraulics," *Journal of Petroleum Science and Engineering*, v78, 86-95 (2011).

14. C. Yuan, M. Delshad, and M.F. Wheeler, "Modeling Multiphase Non-Newtonian Polymer Flow in IPARS Parallel Framework, " *American Institute of Mathematical Sciences*, Networks and Heterogeneous Media, Vol. 5, No. 3, September 2010, p. 583-602.

15. M. Delshad, M.F. Wheeler, and S.G. Thomas, "Parallel Numerical Reservoir Simulations of Non-Isothermal Compositional Flow and Chemistry," *SPE Journal*., June 2011.

16. N. Fathi Najafabadi, M. Delshad, Q.P. Nguyen, and J. Zhang, "Wettability Modification of Fractured Carbonates Using Sodium Metaborate: Part I: Laboratory Results and Simulation Procedure," *Journal of Petroleum Science and Technology*, 29, 2017-2026, 2011.

17. N. Fathi Najafabadi, M. Delshad, A. Farhadinia, and K. Sepehrnoori, "Wettability Modification of Fractured Carbonates Using Sodium Metaborate: Part II: History Match Results and Sensitivity Simulations," *Journal of Petroleum Science and Technology*, 29, 2160-2175, 2011.

18. M.A., Farhadinia, S.L., Bryant, K., Sepehrnoori, and M., Delshad, "Development and Implementation of a Multidimensional Reservoir Souring Module in a Chemical Flooding Simulator," *Journal of Petroleum Science and Technology*, 28:535-546, 2010.

19. M.A., Farhadinia, S.L., Bryant, K., Sepehrnoori, and, M., Delshad, "Application of A 3-D Reservoir Simulator with Biodegradation Capability to Evaluate Reservoir Souring Predictive Models," *Journal of Petroleum Science and Technology*, 28:382-392, 2010.
20. B. Liang, K. Sepehrnoori, and M. Delshad, "An Automatic History Matching Module with Distributed and Parallel Computing," *Journal of Petroleum Science and Technology*, **27**, 2009, 1092-1108.
21. B. Liang, K. Sepehrnoori, and M. Delshad, "A weighted Ensemble Kalman Filter for Automatic History Matching," *Journal of Petroleum Science and Technology*, **27**, 2009, 1062-1091.
22. H. Mohammadi, M. Delshad, and G.A. Pope, "Mechanistic Modeling of Alkaline/Surfactant/Polymer Floods," *SPE Reservoir Evaluation and Engineering Journal*, Aug. 2009, 518-570.
23. M. Delshad, N. Najafabadi Fathi, G. Anderson, G. A. Pope, and K. Sepehrnoori, "Modeling Wettability Alteration by Surfactants in Naturally Fractured Reservoirs," *SPE Reservoir Evaluation and Engineering Journal*, June 2009, p. 361-370.
24. C. Han, M. Delshad, G.A. Pope, and K. Sepehrnoori, "Coupling Equation of State Compositional and Surfactant Models in A Fully Implicit Parallel Reservoir Simulator Using Equivalent Alkane Carbon Number Concept," *SPE Journal*, June 2009, p. 302-310.
25. J. Zhang, M. Delshad, K. Sepehrnoori, "Development of a Framework for Optimization of Reservoir Simulation Studies," *Journal of Petroleum Science and Engineering*, **59**, 2007, 135-146.
26. C. Han, M. Delshad, K. Sepehrnoori, and G.A. Pope, "A Fully Implicit, parallel, Compositional Chemical Flooding Simulator," *SPE Journal*, September 2007, 322-338.
27. A. John, C. Han, M. Delshad, G.A. Pope, and K. Sepehrnoori, "A New Generation Chemical Flooding Simulator," *SPE Reservoir Evaluation and Engineering*, 2005, ***10 (2)***, June 2005, 206-127.
28. M. Delshad, R.J. Lenhard, M. Oostrom, and G.A. Pope, "A Mixed-wet hysteresis relative Permeability and Capillary Pressure Model for Reservoir Simulations," *SPE Reservoir Evaluation and Engineering*, October 2003, 328-334.
29. L. Cheng, S.I. Kam, M. Delshad, and W.R. Rossen, "Simulation of Dynamic Foam-Acid Diversion Processes," *SPE Journal*, September 2002, 316-324.
30. G.A. Pope, W. Wu, G. Narayanaswamy, M. Delshad, M.M. Sharma, and P. Wang "Modeling Relative Permeability Effects in Gas-Condensate Reservoirs," *SPE Reservoir Eval. & Eng.*, **3** (2), April 2000, 1-8.
31. W. Wu, P. Wang, M. Delshad, C. Wang, G. Pope and M. Sharma, "Modeling Non-Equilibrium Mass Transfer Effects for a Gas Condensate Field," *In Situ*, **24** (2&3), 2000, 136-161.
32. W. Wu, M. Delshad, T. Oolman, and G.A. Pope, "Remedial Options for Creosote-Contaminated Sites," *Ground Water Monitoring & Remediation*, Spring 2000, 78-86.
33. G.M. Edwards, M. Delshad, G.A. Pope, and K. Sepehrnoori, "A High Resolution Method Coupled with Local Refinement for Three Dimensional Aquifer Remediation," *In Situ J.*, **23** (4), 1999, 333-377.
34. M. Delshad, W. Han, G.A. Pope, K. Sepehrnoori, W. Wu, R. Yang, and L. Zhao, "Alkaline/Surfactant/Polymer Flood Predictions for the Karamay Oil Field," *J. of Petroleum Technology* **51** (1), 34-35, January, 1999, 34-35.
35. C.L. Brown, M. Delshad, V. Dwarakanath, D.M. McKinney, G.A. Pope, R.E. Jackson, J.T. Londergan, H.W. Meinardus, W.H. Wade, "Demonstration of Surfactant Flooding of an Alluvial Aquifer Contaminated with DNAPL," in Innovative Subsurface Remediation: Field Testing of Physical, Chemical, and Characterization Technologies, M. Brusseau, M. Annable, and J. Gierke (eds.) ACS Symposium Series 725, American Chemical Society, Washington, DC, 1999, 64-85.
36. M. Delshad, G.A. Pope, and K. Sepehrnoori, "A Compositional Simulator for Modeling Surfactant Enhanced Aquifer Remediation, 1. Formulation," *J. of Contaminant Hydrology* **23**, November 1996, 303-327.
37. P.C. de Blanc, D.C. McKinney, G.E. Speitel, K. Sepehrnoori, and M. Delshad, "A three-dimensional,

Multi-Component, Model of Non-Aqueous Phase Liquid Flow and Biodegradation in Porous Media," Non-Aqueous Phase Liquids in Subsurface Environment: Assessment and Remediation, Lakshmi N. Reddi, ed., ASCE, NY, 1996, 478-489.

38. M. Jin, M. Delshad, V. Dwarakanath, D.C. McKinney, G.A. Pope, K. Sepehrnoori, C.E. Tilburg, and R.E. Jackson, "Partitioning Tracer Test for Detection, Estimation, and Remediation Performance Assessment of Subsurface Non-Aqueous Phase Liquids," *Water Resources Research*, **31** (5), 1201-1211, May 1995.

39. J. Liu, M. Delshad, G.A. Pope, and K. Sepehrnoori, "Application of Higher-Order Flux-Limited Methods in Compositional Simulation," *Transport in Porous Media*, **16** (1), 1-29, July 1994.

40. M. Delshad and G.A. Pope, "Comparison of the Three-Phase Oil Relative Permeability Models," *J. of Transport in Porous Media*, **4**, 59-83, 1989.

41. J.C. Smith, M. Delshad, G.A. Pope, W.G. Anderson, and D. Marcel, "Analysis of Unsteady-State Displacements Using a Capacitance-Dispersion Model," *In Situ J*., **12** (1 & 2), 41-78, 1988.

42. M. Delshad, M. Delshad, G.A. Pope, and L.W. Lake, "Two- and Three-Phase Relative Permeabilities of Micellar Fluids," *SPE Formation Evaluation*, 327-337, September 1987.

43. M. Delshad, D.J. MacAllister, G.A. Pope, and B.A. Rouse, "Multiphase Dispersion and Relative Permeability Experiments," *Society of Petroleum Engineering J*., 524-534, August 1985.

44. B. Refereed Conference Proceedings

45. W. Zhou, Z. Wang, M. Delshad, A. Varavei, , X. Wang, and W. Zhang, " A Multi-well Performance Particle Gel Injection Evaluation using a Sophisticated Simulator, IPTC 6693 Prepared for International Petroleum Technology, Beijing, China, March 26-28, 2013.

46. A. Mollaei, Z. Li, and M. Delshad, "A Novel Forecasting Model for Chemical Flooding Enhanced Oil Recovery," SPE 166157 prepared for the SPE Annual Technical Conference and Exhibition, New Orleans, Louisiana, Sept. 30- Oct. 2, 2013.

47. A. Kazemi Nia Korrani, K. Sepehrnoori, M. Delshad, " A Novel Mechanistic Approach for Modeling Low salinity Water Injection," SPE 166523 prepared for the SPE Annual Technical Conference and Exhibition, New Orleans, Louisiana, Sept. 30- Oct. 2, 2013.

48. E.W. Al-Shalabi, K. Sepehrnoori, and M. Delshad, "Does the Double Layer Expansion Mechanism Contribute to the LSWI Effect on Hydrocarbon Recovery from Carbonate Rocks?," SPE 165974 prepared for the SPE Reservoir Characterization and Simulation Conference and Exhibition, Abu Dhabi, UAE, 16–18 September 2013.

49. Kong, X., Delshad, M. and Wheeler, M.F ,"High Resolution Simulations with a Compositional Parallel Simulator for History Matching Laboratory CO_2/Brine Core Flood Experiment," SPE paper 163625, presented at the 2013 Reservoir Simulation Symposium,, 13-20 Feb, Woodlands, Texas.

50. A. Goudarzi, H. Zhang, A. Varavei, M. Delshad, B. Bai, and K. Sepehrnoori, Water Management in Mature Oil Fields using Preformed Microgels, SPE 165356 prepared for Western Regional Meeting, Monterey, California, April 19-23, 2013.

51. M.R. Beygi, M. Delshad, V.S. Pudugramam, and G.A. Pope, M.F. Wheeler, "A New Approach to Model Hysteresis and Its Impact on CO2-EOR Processes with Mobility Control Strategies," SPE 165324 prepared for Western Regional Meeting, Monterey, California, April 19-23, 2013.

52. E.W. Al-Shalabi, K. Sepehrnoori, and M. Delshad, "Mechanisms behind Low salinity Water Flooding in Carbonate Reservoirs," SPE 165339 prepared for the Western Regional Meeting, Monterey, California, April 19-23, 2013.

53. H. Xu, D.H. Kim, and M. Delshad, "Potential for Non-thermal Chemical Augmented Waterflood for Producing Viscous Oils," SPE 165350 prepared for Western Regional Meeting, Monterey, California, April 19-23, 2013.

54. Z. Li and M. Delshad, "Development of An Analytical Injectivity Model for Non-Newtonian Polymer Solutions," SPE 163672 prepared for SPE Reservoir Simulation Symposium, Woodlands, Texas, Feb. 18-20, 2013.
55. A. Goudarzi, M. Delshad, and Sepehrnoori, "A Critical Assessment of Several Reservoir Simulators for Modeling Chemical Enhanced Oil Recovery Processes," SPE 163578 prepared for SPE Reservoir Simulation Symposium, Woodlands, Texas, Feb. 18-20, 2013.
56. A. Naderi Beni, A. Varavei, M. Delshad, and R. Farajzadeh, "Modeling Gas Solubility in Water for Foam Propagation in Porous Media," SPE 163579 prepared for SPE Reservoir Simulation Symposium, Woodlands, Texas, Feb. 18-20, 2013.
57. A. Goudarzi, M. Delshad, K.K. Mohanty, and K. Sepehrnoori, "Impact of Matrix Block Size on Oil Recovery Response Using Surfactants in Fractured Carbonates," SPE 160219 prepared for SPE Annual Conference, San Antonio, Texas, Oct. 8-10, 2012.
58. J. Lu, A. Goudarzi, P. Chen, D. Kim, C. Britton, M. Delshad, K.K. Mohanty, U. Weerasooriya, and G.A. Pope," Surfactant Enhanced Oil Recovery From Naturally Fractured Reservoirs," SPE 159979 prepared for SPE Annual Conference, San Antonio, Texas, Oct. 8-10, 2012.
59. X. Kong, M. Delshad, and M.F. Wheeler, "An Integrated Capillary , Buoyancy, and Viscous Driven Model for Brine/CO2 Relative Permeability in a Compositional and Parallel Reservoir Simulator, " Contributed 2012 Springer Verlag Heidelberg, 2012.
60. Sharma, A. Azizi-Yarand, B. Clayton, G. Baker, P. McKinney, M. Delshad, and G. Pope, "The Design and Execution of an Alkaline-Surfactant-Polymer Pilot Test," SPE 154318 presented at the 18th SPE Improved Oil Recovery Symposium, Tulsa, April14-18, 2012.
61. A. Sharma, M. Delshad, C. Huh, and G.A. Pope, "A Practical Method to Calculate Polymer Viscosity Accurately in Numerical Reservoir Simulators, SPE 147239 prepared for the SPE Annual Technical Conference and Exhibition, Denver, Colorado, Oct. 31- Nov. 2, 2011.
62. A. Farhadinia, P. Chen, M. Delshad, KK. Mohanty, and F.G. Rodriguez, "A Systematic Study of Oil Recovery Mechanisms from a Fractured and Vuggy Carbonate Reservoir, SPE 147317 prepared for the SPE Annual Technical Conference and Exhibition, Denver, Colorado, Oct. 31- Nov. 2, 2011.
63. M. Roshanfekr, R.T. Johns, M. Delshad, and G.A. Pope, "Modeling of pressure and Solution Gas for Chemical Floods," SPE 147473 prepared for the SPE Annual Technical Conference and Exhibition, Denver, Colorado, Oct. 31- Nov. 2, 2011.
64. A. Mollaei, L.W. Lake, and M. Delshad, "General Isothermal EOR Forecasting Model," SPE 143925 prepared for the SPE Annual Technical Conference and Exhibition, Denver, Colorado, Oct. 31- Nov. 2, 2011.
65. A. Mollaei, L.W. Lake, and M. Delshad, "Application and Variance Based Sensitivity Analysis of Surfactant-Polymer Floods," SPE 142146 Presented at the SPE Reservoir Simulation Symposium, The Woodlands, Texas, 21-23 February 2011.
66. A. Mollaei and M. Delshad, "A Novel Forecasting Tool for Water Alterative Gas (WAG) Floods Forecasting Model," SPE 148742 prepared for 2011 SPE Eastern Regional Meeting.
67. **M. Delshad**, M.F. Wheeler, and X. Kong**,** "On Interplay of Capillary, Gravity, and Viscous Forces on Brine/CO2 Relative Permeability in a Compositional and Parallel Simulator," SPE 142146 Presented at the SPE Reservoir Simulation Symposium, The Woodlands, Texas, 21-23 February 2011.
68. M. Delshad, C. Han, G.A. Pope, "A Simplified Model for Simulation of Alkaline-Surfactant-Polymer Floods," SPE 142105 Presented at the SPE reservoir Simulation Symposium, The Woodlands, Texas, 21-23 February 2011.
69. F.K. Veedu, M. Delshad, and G.A. Pope, "Scaleup Methodology for Chemical Flooding," SPE 135543 prepared for the 2010 SPE Annual Technical Conference and Exhibition, Florence, Italy, 19-122, Sept. 2010.

70. **M. Delshad**, M.F. Wheeler, and X. Kong, "A Critical Assessment of CO_2 Injection Strategies in Saline Aquifers," SPE 132442 prepared for the SPE Western Regional Meeting, Anaheim, CA, May 27-29, 2010.
71. C. Yuan, M. Delshad, and M.F. Wheeler, "Parallel Simulations of Commercial-Scale Polymer Floods," SPE 132441 prepared for the SPE Western Regional Meeting, Anaheim, CA, May 27-29, 2010.
72. M.F. Wheeler, M. Delshad, X. Kong, S. Thomas, T. Wildey, and G. Xue, "Role of Computational Science in Protecting the Environment: Geological Storage of CO_2," Proceedings of the International Congress of Mathematics, Hyderabad, India, June 2010.
73. M.A. Farhadinia and M. Delshad, "Modeling and Assessment of Wettability Alteration Processes in Fractured Carbonates using Dual Porosity and Discrete Fracture Approaches," SPE 129749 prepared for the 2010 SPE Improved Oil Recovery Symposium, Tulsa, O.K, April 24-28, 2010.
74. Y. Abbasi, G.A. Pope, and M. Delshad, "Mechanistic Modeling of Chemical Transport in Naturally Fractured Oil Reservoirs," SPE 129661 prepared for the 2010 SPE Improved Oil Recovery Symposium, Tulsa, O.K, April 24-28, 2010.
75. K. Rai, R.T. Johns, L.W. Lake, and M. Delshad, "Oil Recovery Predictions for Surfactant Polymer Flooding," SPE paper 124001 presented at the 2009 SPE Annual Technical; Conference and Exhibition, New Orleans, LA, Oct 4-7.
76. L. Kaprinski, C. Marcondes, M. Delshad, and K. Sepehrnoori, "An Element Based Conservative Approach using Unstructured Grids in Conjunction with a Chemical Flooding Compositional Reservoir Simulator," Proceedings of COBEM 2009, 20th International Congress of Mechanical Engineering, Nov. 15-2009, Gramado, Brazil.
77. M. Abbaszadeh, K. Okatsu, A. Farhadinia, M. Delshad, and G.A. Pope, "Screening Study of Chemical EOR Flooding in the Chicontepec Field," paper proceeding presented at the Mexican Petroleum Congress, Veracruz, June 10-14, 2009
78. M. Delshad, N. Fathi Najafabadi, and K. Sepehrnoori, "Scale up Methodology for Wettability Modification in Fractured Carbonates," SPE paper 118915, Presented at the 2009 SPE Reservoir Simulation Symposium, Houston, TX, Feb 2-4.
79. M.A. Farhadinia, S.L. Bryant, K. Sepehrnoori, and M. Delshad, "Development of a Reservoir Simulator for Reservoir Souring Predictions," SPE paper 118951 Presented at the 2009 SPE Reservoir Simulation Symposium, Houston, TX, Feb. 2-4.
80. N. Fathi Najafabadi, C. Han, M. Delshad, and K. Sepehrnoori, "Development of a Three-Phase, Fully Implicit, Parallel Chemical Flood Simulator," SPE paper 119002, the 2009 SPE Reservoir Simulation Symposium, Houston, TX, Feb. 2-4.
81. S.G. Thomas, M.F. Wheeler, M. Delshad, "Parallel Numerical Reservoir Simulations of Non-Isothermal Compositional Flow and Chemistry," SPE paper 118847, the 2009 SPE Reservoir Simulation Symposium, Houston, TX, Feb. 2-4.
82. M. Delshad, D.H. Kim, O.A. Magbagbeola, C. Huh, G.A. Pope, and F. Tarahhom, "Mechanistic Interpretation and utilization of Viscoelastic Behavior of Polymer Solutions for Improved Polymer-Flood Efficiency," SPE paper 113620, the 2008 SPE Improved Oil Recovery Symposium, Tulsa, OK, April 19-23.
83. H. Mohammadi, M. Delshad, and G.A. Pope, "Mechanistic Modeling of Alkaline/Surfactant/Polymer Floods," SPE paper 110212, the 2008 SPE Improved Oil Recovery Symposium, Tulsa, OK, April 19-23.
84. N. Fathi Najafabadi, M. Delshad, K. Sepehrnoori, Q.P. Nguyen, and J. Zhang, "Chemical Flooding of Fractured Carbonates Using Wettability Modifiers," SPE paper 113369, the 2008 SPE Improved Oil Recovery Symposium, Tulsa, OK, April 19-23.
85. M. Delshad, S.G. Thomas, and M.F. Wheeler, "Large scale Parallel Simulations of CO_2 Sequestration using a Thermal Compositional Simulator," Terra Grid Proceeding, Las Vegas, NV, May 2008.

86. S.G. Thomas, M.F. Wheeler, and M. Delshad, "Modeling CO_2 Sequestration Using A Sequentially Coupled Iterative-IMPEC-Time-Split-Thermal Compositional Simulator," presented at the 11th European Conference on the Mathematics of Oil Recovery, Bergen, Norway, September 8-11, 2008.

87. M. Delshad, S.G. Thomas, and M.F. Wheeler, "Parallel Simulations of CO_2 Sequestration Using A Non-Isothermal Compositional Model," presented at ASME 2008 International Mechanical Engineering Congress & Exposition, Boston, MA, Oct. 31 - Nov. 6, 2008.

88. B. Liang, F.O. Alpak, K. Sepehrnoori, and M. Delshad, "A Singular Evolutive Interpolated Kalman Filter for Rapid Uncertainty Quantification," SPE paper 106170, presented at the 2007 SPE Reservoir Simulation Symposium, Houston, Texas, Feb. 26-28.

89. R. Naimi-Tajdar, M. Delshad, and K. Sepehrnoori, "Matrix Subgridding and Its Effect in Dual Porosity Simulators," paper IPTC 11195, presented at the 2007 International Petroleum Technology Conference, Dubai, U.A.E, December 4-6.

90. **M. Delshad**, N. Fathi, G.A. Anderson, G.A. Pope, and K. Sepehrnoori, "Modeling Wettability Alteration in Naturally Fractured Reservoirs," SPE paper 100081 presented at the 2006 SPE/DOE Symposium on Improved Oil Recovery, Tulsa, Oklahoma, April 22-26, 2006, P. 1-10.

91. G. Anderson, M. Delshad, C.B. King, H. Mohammadi, G.A. Pope, "Optimization of Chemical Flooding in a Mixed-Wet Dolomite Reservoir," SPE paper 100082 presented at the 2006 SPE/DOE Symposium on Improved Oil Recovery, Tulsa, Oklahoma, April 22-26, 2006, P. 1-12.

92. J. Zhang, M. Delshad, K. Sepehrnoori, G.A. Pope, "An Efficient Reservoir Simulation Approach to Design and Optimize Improved Oil Recovery Processes with Distributed Computing," SPE paper 94733 presented at the 2005 SPE Latin American and Caribbean Petroleum Engineering Conference, Rio De Janeiro, Brazil, June 20-23, 2005, P 1-14.

93. J. Zhang, M. Delshad, K. Sepehrnoori, "A Framework to Design and Optimize Surfactant-Enhanced Aquifer Remediation," SPE paper 94222 -STU presented at the 2005 SPE/EPA/DOE Exploration & Production Environmental Conference, Galveston, Houston, 7-9 March 2005, P. 1-17.

94. John, C. Han, M. Delshad, G.A. Pope, and K. Sepehrnoori, "A New Generation Chemical Flooding Simulator," SPE paper 89436 presented at the 2004 SPE/DOE 14th Symposium on Improved Oil recovery, Tulsa, O.K, April, 17-21, 2004, P 1-13.

95. B.K. George, C. Torres-Verdin, M. Delshad, R. Sigal, F. Zouioueche, B. Anderson, "A Case Study Integrating the Physics of Mud Filtrate Invasion with the Physics of Induction Logging: Assessment of In-Situ Hydrocarbon Saturation in the Presence of Deep Invasion and Highly Saline Connate Water," paper to be presented at the 44th Annual Logging Symposium, Society of Professional Well Log Analysis, Galveston, Texas, June 22-25, 2003, P 141-136.

96. M. Delshad and G.A. Pope, "Effect of Dispersion on Transport and Precipitation of Barium and Sulfate in Oil Reservoirs," SPE paper 80253 presented at the SPE International Symposium on Oilfield Chemistry, Houston, Texas, 5-8 February 2003, P. 1-8.

97. M. Delshad, G.A. Pope, K. Sepehrnoori, and N.E. Deeds, "Simulation of Fate and Transport of NAPLs in Fractured Media," Proceedings of the third International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, California, May 2002, P. 1-8.

98. M. Delshad, G.A. Pope, K. Asakawa, and K. Sepehrnoori, "Simulations of Chemical and Microbial Enhanced Oil Recovery Methods," SPE paper 75237 presented at the SPE/DOE Thirteenth Symposium on Improved Oil Recovery, Tulsa, OK, April 13-17, 2002, P. 1-13.

99. M. Delshad, G.A. Pope, and K. Sepehrnoori, "Simulations of Chemical and Microbial Enhanced Oil Recovery Methods," Proceeding of the 22nd Annual Workshop & Symposium, Collaborative Project on Enhanced Oil Recovery International Energy Agency, Sept. 9-12, 2001, P. 1-13.

100. J. Wu, C. Torres-Verdin, K. Sepehrnoori, and M. Delshad, "Numerical Simulation of Mud Filtrate Invasion in Deviated Wells," SPE paper 71739 presented at the 2001 Annual Technical Conference, New Orleans, Louisiana, Sept. 30-Oct. 3, 2001, P. 1-15.

101. B. Guler, P. Wang, M. Delshad, G.A. Pope, and K. Sepehrnoori, "Three- and Four-Phase Flow Compositional Simulations of CO_2/NGL EOR," SPE 71485 prepared for the 2001 Annual Technical Conference, New Orleans, Louisiana, Sept. 30-Oct. 3, 2001, P. 1-9.

102. L. Cheng, S.I. Kam, M. Delshad, and W.R. Rossen, "Simulation of Dynamic Foam-Acid Diversion Processes," SPE 68916 Proceedings of the SPE European Formation Damage Conference held in Hague, Netherlands, May 21-22, 2001, P. 1-18.

103. G.A. Pope, V. Dwarakanath, and M. Delshad, "Surfactant Enhanced Aquifer Remediation (SEAR)," Prague, P. 1-17.

104. **M. Delshad**, G.A. Pope, L. Yeh, and F. Holzmer, "Design of the Surfactant Flood at Camp Lejeune," Proceedings of the Second International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, California, May 22-25, 2000, P. 1-8.

105. M. Delshad, R.J. Lenhard, M. Oostrom, G.A. Pope, and S. Yang, "A Mixed-Wet Hysteretic Relative Permeability and Capillary Pressure Model in a Chemical Compositional Reservoir Simulator," SPE 51891 Proceedings of the 1999 SPE Reservoir Simulation Symposium, Houston, TX, 14-17 February, P. 1-17.

106. V. Dwarakanath, M. Delshad, and G.A. Pope, "Effect of Non-equilibrium Mass Transfer on the Response and Analysis of Partitioning Interwell Tracer Tests," Proceedings of the 1998 AGU Fall Meeting, San Francisco, CA, 6-10 December, P. 1-2.

107. G.A. Pope, W. Wu, G. Narayanaswamy, M. Delshad, M. Sharma, P. Wang, "Modeling Relative Permeability Effects in Gas-Condensate Reservoirs," SPE 49266 Proceedings of the 1998 SPE Annual Technical Conference and Exhibition, New Orleans, LA, 27-30 September, P. 1-8.

108. M. Delshad, W. Han, G. A. Pope, K. Sepehrnoori, W. Wu, R. Yang, and Z. Zhao, "Alkaline/Surfactant Polymer Flood Predictions for the Karamay Oil Field," SPE 39610 Proceedings of the 1998 SPE/DOE Improved Oil Recovery Symposium, Tulsa, OK, April**,** P. 65-77.

109. M. Oostrom, R.J. Lenhard, M. Delshad, and S.D. Robertson, "Modeling Relations Among Relative Permeabilities, Fluid Saturations, and Capillary Pressures in Mixed-Wet Porous Media: Model Testing and Application to Oil-Water Systems," Proceedings of International Workshop on Characterization and Measurement of Hydraulic Properties of Porous Media, Riverside, Oct. 22-24, 1997, P. 1-18.

110. M. Edwards, G.A. Pope, K. Sepehrnoori and M. Delshad, "Local Grid Refinement Discretization - Towards Three Dimensional Reservoir Simulation," Proceedings of the Symposium on Advanced Simulation of Subsurface Flow and Contaminant Transport, Research Triangle Park, NC, December 5-6, 1996, P. 1-18.

111. M. Rame, M. Delshad, "A Compositional Reservoir Simulator on Distributed Memory Parallel Computers," SPE 29103 Proceedings of the SPE Symposium on Reservoir Simulation, San Antonio, TX, Feb. 12-15, 1995, P. 1-10.

112. W. Wu, A. Vaskas, M. Delshad, G.A. Pope, and K. Sepehrnoori, "Design and Optimization of Low-Cost Chemical Flooding," Proceedings of the SPE/DOE Tenth Symposium on Improved Oil Recovery, Tulsa, OK, April 21-24, 1996, P. 1-6.

113. C. Brown, M. Delshad, V. Dwarakanath, D.C. McKinney, and G.A. Pope, "Design of A Field-scale Surfactant Enhanced Remediation of a DNAPL Contaminated Aquifer," Proceeding of the I&EC special symposium of American Chemical Society, Birmingham, AL, Sept. 9-12, 1996, P. 1-6.

114. H. Dakhlia, W. Wu, M.T. Lim, M. Delshad, G.A. Pope, and K. Sepehrnoori, "Simulation of Surfactant Flooding Using Horizontal Wells," Proceedings of the Petroleum Society of CIM 46th Annual Technical Meeting, Banff, Canada, May 14-17, 1995, P. 1-9.

115. G.A. Pope, K. Sepehrnoori, M. Delshad, H. Bendakhlia, S. Sinha, W. Wu, "Optimization of Surfactant Flooding to Reduce Cost and Risk," Proceedings of the 1994 IEA Workshop/Symposium on EOR, Stavanger, Norway, August 28-31, P. 1-10.

116. M. Jin, M. Delshad, D.C. McKinney, G.A. Pope, K. Sepehrnoori, C. Tilburg, and R.E. Jackson, "Subsurface NAPL Contamination: Partitioning Tracer Test for Detection, Estimation, and Remediation Performance Assessment," Proceedings of the Annual Meeting of the American Institute of Hydrology,

April 10-13, 1994, P. 1201-1211.

117. L.E.A. Ferreira, F. Descant, M. Delshad, G.A. Pope, and K. Sepehrnoori, "A Single-Well Tracer Test to Estimate Wettability," Proceedings of the SPE/DOE 8th Symposium on Enhanced Oil Recovery, Tulsa, OK, April 22-24, 1992, P. 325-335.

118. M. Delshad**,** G.A. Pope, and K. Sepehrnoori, "An Overview of the Research at The University of Texas on Both Physical and Computational Problems of Large-Scale Chemical Enhanced Oil Recovery Simulation," Proceedings of the International Energy Agency meeting on Enhanced Oil Recovery, Hanover, West Germany, September 13-21, 1986, P. 1-30.

119. M. Delshad, M. Delshad, D. Bhuyan, G.A. Pope, and L.W. Lake, "Effect of Capillary Number on the Residual Saturation of a Three-Phase Micellar Solution," Proceedings of the SPE/DOE Fifth Symposium on Enhanced Oil Recovery, Tulsa, OK, April 20-23, 1986, P. 399-405.

D. Books, Chapters of Books; Editor of Books

1. C.H. Ward, J.B. Hughes, G.A. Pope, M. Delshad, V. Dwarakanath, J. Spain, S. Nishino, J.S. Fruchter, V.R. Vermeul, M.D. Williams, and J.E. Szecsody, "In-Situ Treatment Technologies," in Innovative Approaches to the On-Site Assessment and Remediation of Contaminated Sites, D. Reible and K. Demnerova (eds), Kluwer Academic Publishers, The Netherlands, 183-216, 2002.

2. Chapter 6 of the SEAR (Surfactant Enhanced Aquifer Remediation) Design Manual, prepared for Naval Facilities Engineering Command (NFESC), Washington, DC, April 2003.

3. M. Delshad, R. Tavakoli, and M. Wheeler, " Role of Computational Science and Geological Storage of CO_2, Computational Models for CO_2 Sequestration and Compressed Air Energy Storage, R. Al-Khoury and J. Bunschuh, submitted, accepted 2013.