

DAFTAR PUSTAKA

- Abalkhail, N., Liyanage, P. J., Upamali, K. A. N., Pope, G. A., & Mohanty, K. K. (2020). Alkaline-surfactant-polymer formulation development for a HTHS carbonate reservoir. *Journal of Petroleum Science and Engineering*, *191*, 107236.
- Abrams, A. (1975). The Influence of Fluid Viscosity, Interfacial Tension, and Flow Velocity on Residual Oil Saturation Left by Waterflood. *Society of Petroleum Engineers Journal*, *15*(05), 437–447. <https://doi.org/10.2118/5050-PA>
- Abushaikha, A. S., & Gosselin, O. R. (2008). Matrix-fracture transfer function in dual-media flow simulation: Review, comparison and validation. *Europec/EAGE Conference and Exhibition*.
- Allcock, H. R., Lampe, F. W., & Mark, J. E. (2003). *Contemporary polymer science*. Pearson Education Inc., Upper Saddle River.
- Alrifaiy, A., Lindahl, O. A., & Ramser, K. (2012). Polymer-based microfluidic devices for pharmacy, biology and tissue engineering. *Polymers*, *4*(3), 1349–1398.
- Bales, B. L., Benrraou, M., & Zana, R. (2002). Krafft temperature and micelle ionization of aqueous solutions of cesium dodecyl sulfate. *The Journal of Physical Chemistry B*, *106*(35), 9033–9035.
- Barati, N. (2011). *Study of polymer flooding performance in the presence of nanoparticles*. Master Thesis, Petroleum University of Technology.
- Bera, A., Ojha, K., Mandal, A., & Kumar, T. (2011). Interfacial tension and phase behavior of surfactant-brine–oil system. *Colloids and Surfaces a: Physicochemical and Engineering Aspects*, *383*(1–3), 114–119.
- Bhosle, M. R., Joshi, S. A., & Bondle, G. M. (2020). An efficient contemporary multicomponent synthesis for the facile access to coumarin-fused new thiazolyl chromeno [4, 3-b] quinolones in aqueous micellar medium. *Journal of Heterocyclic Chemistry*, *57*(1), 456–468.
- Bonnet, J. (1977). *REALISATION DE MICROMODELES POUR L'ETUDE DES*

ECOULEMENTS POLYPHASIQUES EN MILIEU POREUX.

- Breuer, M. M., & Robb, I. D. (1972). Interactions between macromolecules and detergents. *Chemistry & Industry*, 13, 530.
- Brownell, L. E., & Katz, D. L. (1947). Flow of fluids through porous media. 2. Simultaneous flow of 2 homogeneous phases. *Chemical Engineering Progress*, 43(11), 601–612.
- Bryan, J., & Kantzas, A. (2009). Potential for alkali-surfactant flooding in heavy oil reservoirs through oil-in-water emulsification. *Journal of Canadian Petroleum Technology*, 48(02), 37–46.
- Buchgraber, M. (2008). *An enhanced oil recovery micromodel study with associative and conventional polymers*. University of Leoben.
- Buchgraber, M., Clemens, T., Castanier, L. M., & Kavscek, A. R. (2011). A microvisual study of the displacement of viscous oil by polymer solutions. *SPE Reservoir Evaluation & Engineering*, 14(03), 269–280.
- Cabane, B., & Duplessix, R. (1982). Organization of surfactant micelles adsorbed on a polymer molecule in water: a neutron scattering study. *Journal de Physique*, 43(10), 1529–1542.
- Chang, H. L. (1978). Polymer flooding technology yesterday, today, and tomorrow. *Journal of Petroleum Technology*, 30(08), 1113–1128.
- Chang, L.-C., Chen, H.-H., Shan, H.-Y., & Tsai, J.-P. (2009). Effect of connectivity and wettability on the relative permeability of NAPLs. *Environmental Geology*, 56(7), 1437–1447.
- Chang, L.-C., Tsai, J.-P., Shan, H.-Y., & Chen, H.-H. (2009). Experimental study on imbibition displacement mechanisms of two-phase fluid using micro model. *Environmental Earth Sciences*, 59(4), 901–911.
- Chatenever, A., Jr, J. C. C., & College, P. S. (1952). *J---*. 195, 149–156.
- Chatzis, I., & Morrow, N. R. (1984). Correlation of Capillary Number Relationships for Sandstone. *Society of Petroleum Engineers Journal*, 24(05), 555–562. <https://doi.org/10.2118/10114-PA>
- Chen, D., Pyrak-Nolte, L. J., Griffin, J., & Giordano, N. J. (2007). Measurement of interfacial area per volume for drainage and imbibition. *Water Resources*

Research, 43(12).

- Chen, J.-D., & Wilkinson, D. (1985). Pore-scale viscous fingering in porous media. *Physical Review Letters*, 55(18), 1892.
- Chen, S., Han, M., & AlSofi, A. M. (2021). Synergistic Effects between Different Types of Surfactants and an Associating Polymer on Surfactant-Polymer Flooding under High-Temperature and High-Salinity Conditions. *Energy and Fuels*, 35(18), 14484–14498. <https://doi.org/10.1021/acs.energyfuels.1c01034>
- Cheng, J., Pyrak-Nolte, L. J., Nolte, D. D., & Giordano, N. J. (2004). Linking pressure and saturation through interfacial areas in porous media. *Geophysical Research Letters*, 31(8).
- Chuoque, R. L., Van Meurs, P., & van der Poel, C. (1959). The instability of slow, immiscible, viscous liquid-liquid displacements in permeable media. *Transactions of the AIME*, 216(01), 188–194.
- Conrad, S. H., Wilson, J. L., Mason, W. R., & Peplinski, W. J. (1992). Visualization of residual organic liquid trapped in aquifers. *Water Resources Research*, 28(2), 467–478.
- Corapcioglu, M. Y., Yoon, S., & Chowdhury, S. (2009). Pore-scale analysis of NAPL blob dissolution and mobilization in porous media. *Transport in Porous Media*, 79(3), 419–442.
- Corapcioglu, Y. M., Chowdhury, S., & Roosevelt, S. E. (1997). Micromodel visualization and quantification of solute transport in porous media. *Water Resources Research*, 33(11), 2547–2558.
- Cottin, C., Bodiguel, H., & Colin, A. (2010). Drainage in two-dimensional porous media: From capillary fingering to viscous flow. *Physical Review E*, 82(4), 46315.
- Danesh, A., Peden, J. M., Krinis, D., & Henderson, G. D. (1987). Pore level visual investigation of oil recovery by solution gas drive and gas injection. *SPE Annual Technical Conference and Exhibition*.
- Das, A., Nguyen, N., & Nguyen, Q. P. (2020). Low tension gas flooding for secondary oil recovery in low-permeability, high-salinity reservoirs. *Fuel*, 264, 116601.

- Delshad, M., Bhuyan, D., Pope, G. A., & Lake, L. W. (1986). Effect of capillary number on the residual saturation of a three-phase micellar solution. *SPE Enhanced Oil Recovery Symposium*.
- Dong, M., Liu, Q., & Li, A. (2007). Micromodel study of the displacement mechanisms of enhanced heavy oil recovery by alkaline flooding. *Proceedings of the International Symposium of the Society of Core Analysts*, 2007–2047.
- Druetta, P., & Picchioni, F. (2020). Surfactant-polymer interactions in a combined enhanced oil recovery flooding. *Energies*, 13(24). <https://doi.org/10.3390/en13246520>
- Druetta, P., Yue, J., Tesi, P., De Persis, C., & Picchioni, F. (2017). Numerical modeling of a compositional flow for chemical EOR and its stability analysis. *Applied Mathematical Modelling*, 47, 141–159.
- Foster, W. R. (1973). A low-tension waterflooding process. *Journal of Petroleum Technology*, 25(02), 205–210.
- Green, D. W., & Willhite, G. P. (1998). Enhanced Oil Recovery, Society of Petroleum Engineers. *Richardson, TX*.
- Green, D. W., & Willhite, G. P. (2018). *Enhanced Oil Recovery*. Society of Petroleum Engineers. <https://books.google.co.id/books?id=y1KJtgEACAAJ>
- Guo, H., Song, K., & Hilfer, R. (2020). A critical review of capillary number and its application in enhanced oil recovery. *Proceedings - SPE Symposium on Improved Oil Recovery, 2020-August*. <https://doi.org/10.2118/200419-ms>
- Hamidi, H., Mohammadian, E., Rafati, R., Azdarpour, A., & Ing, J. (2015). The effect of ultrasonic waves on the phase behavior of a surfactant–brine–oil system. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 482, 27–33.
- Healy, R. N., Reed, R. L., & Stenmark, D. G. (1976). Multiphase Microemulsion Systems. *SPEJ* (June), 147–160. *Trans. AIME*, 261.
- Hematpour, H., Mardi, M., Edalatkhah, S., & Arabjamaloei, R. (2011). Experimental study of polymer flooding in low-viscosity oil using one-quarter five-spot glass micromodel. *Petroleum Science and Technology*, 29(11), 1163–1175.

- Henderson, G. D., Danesh, A., Tehrani, D. H., Al-Shaidi, S., & Peden, J. M. (1998). Measurement and correlation of gas condensate relative permeability by the steady-state method. *SPE Reservoir Evaluation & Engineering*, 1(02), 134–140.
- Hirasaki, G. J., & Pope, G. A. (1974). Analysis of factors influencing mobility and adsorption in the flow of polymer solution through porous media. *Society of Petroleum Engineers Journal*, 14(04), 337–346.
- Holmberg, K., Jönsson, B., Kronberg, B., & Lindman, B. (2002). *Surfactants and Polymers in Aqueous Solution*. Wiley. <https://books.google.co.id/books?id=lOaK77U34IYC>
- Hosseini, S. J., & Foroozesh, J. (2019). Experimental study of polymer injection enhanced oil recovery in homogeneous and heterogeneous porous media using glass-type micromodels. *Journal of Petroleum Exploration and Production Technology*, 9(1), 627–637. <https://doi.org/10.1007/s13202-018-0492-x>
- Hosseinnoosheri, P., Lashgari, H. R., & Sepehrnoori, K. (2016). A novel method to model and characterize in-situ bio-surfactant production in microbial enhanced oil recovery. *Fuel*, 183, 501–511.
- Howe, A. M., Clarke, A., Mitchell, J., Staniland, J., & Hawkes, L. A. (2015). Visualising surfactant EOR in core plugs and micromodels. *SPE Asia Pacific Enhanced Oil Recovery Conference*.
- Humphry, K. J., Suijkerbuijk, B., Van Der Linde, H. A., Pieterse, S. G. J., & Masalmeh, S. K. (2014). Impact of wettability on residual oil saturation and capillary desaturation curves. *Petrophysics-The SPWLA Journal of Formation Evaluation and Reservoir Description*, 55(04), 313–318.
- Inada, T., Koyama, T., Tomita, H., Fuse, T., Kuwabara, C., Arakawa, K., & Fujikawa, S. (2017). Anti-ice nucleating activity of surfactants against silver iodide in water-in-oil emulsions. *The Journal of Physical Chemistry B*, 121(27), 6580–6587.
- Jing, W., Huiqing, L., Genbao, Q., Yongcan, P., & Yang, G. (2019). Investigations on spontaneous imbibition and the influencing factors in tight oil reservoirs. *Fuel*, 236, 755–768.

- Kamath, J., Meyer, R. F., & Nakagawa, F. M. (2001). Understanding waterflood residual oil saturation of four carbonate rock types. *SPE Annual Technical Conference and Exhibition*.
- Kang, W. L. (2001). *Study of chemical interactions and drive mechanisms in Daqing ASP flooding*. Petroleum Industry Press Beijing.
- Karadimitriou, N. K., & Hassanizadeh, S. M. (2012). A Review of Micromodels and Their Use in Two-Phase Flow Studies. *Vadose Zone Journal*, *11*(3), vzj2011.0072. <https://doi.org/10.2136/vzj2011.0072>
- Keller, A. A., Blunt, M. J., & Roberts, A. P. V. (1997). Micromodel observation of the role of oil layers in three-phase flow. *Transport in Porous Media*, *26*(3), 277–297.
- Kenzhekhanov, S. (2017). *CHEMICAL EOR PROCESS VISUALIZATION USING NOA81 MICROMODELS* by Shaken Kenzhekhanov.
- Khaleel, O., Teklu, T. W., Alameri, W., Abass, H., & Kazemi, H. (2019). Wettability alteration of carbonate reservoir cores—laboratory evaluation using complementary techniques. *SPE Reservoir Evaluation & Engineering*, *22*(03), 911–922.
- Khan, M. Y., Samanta, A., Ojha, K., & Mandal, A. (2008). Interaction between aqueous solutions of polymer and surfactant and its effect on physicochemical properties. *Asia-Pacific Journal of Chemical Engineering*, *3*(5), 579–585. <https://doi.org/10.1002/apj.212>
- Khandoozi, S., Sharifi, A., & Riazi, M. (2022). Enhanced oil recovery using surfactants. *Chemical Methods*, 95–139.
- Kumar, K., Dao, E. K., & Mohanty, K. K. (2008). Atomic force microscopy study of wettability alteration by surfactants. *Spe Journal*, *13*(02), 137–145.
- Lacey, M., Hollis, C., Oostrom, M., & Shokri, N. (2017). Effects of Pore and Grain Size on Water and Polymer Flooding in Micromodels. *Energy and Fuels*, *31*(9), 9026–9034. <https://doi.org/10.1021/acs.energyfuels.7b01254>
- Lake, L. W. (1989). *Enhanced oil recovery*.
- Lenormand, R., Zarcone, C., & Sarr, A. (1983). Mechanisms of the displacement of one fluid by another in a network of capillary ducts. *Journal of Fluid*

Mechanics, 135, 337–353.

- Li, H. B. (2007). *Advances in alkaline-surfactant-polymer flooding and pilot tests*. Science Press, China.
- Li, P., Yang, C., Cui, Z., Song, B., Jiang, J., & Wang, Z. (2016). A new type of sulfobetaine surfactant with double alkyl polyoxyethylene ether chains for enhanced oil recovery. *Journal of Surfactants and Detergents*, 19(5), 967–977.
- Li, Z. P., Zheng, H. X., He, Z. S., & Cheng, Y. M. (2002). Compatibility of oil-displacing agents. *Fundamentals and Advances in Combined Chemical Flooding*.
- Li, Z., Xu, D., Yuan, Y., Wu, H., Hou, J., Kang, W., & Bai, B. (2020). Advances of spontaneous emulsification and its important applications in enhanced oil recovery process. *Advances in Colloid and Interface Science*, 277, 102119.
- Liu, Z., Cheng, H., Xu, C., Chen, Y., Chen, Y., & Li, Y. (2018). Effect of lithology on pore-scale residual oil displacement in chemical flooding using nuclear magnetic resonance experiments. *SPE EOR Conference at Oil and Gas West Asia*.
- Liu, Z., Li, Y., Chen, X., Chen, Y., Lyu, J., & Sui, M. (2021). The optimal initiation timing of surfactant-polymer flooding in a waterflooded conglomerate reservoir. *SPE Journal*, 26(4), 2189–2202. <https://doi.org/10.2118/205358-PA>
- Løvoll, G., Jankov, M., Måløy, K. J., Toussaint, R., Schmittbuhl, J., Schäfer, G., & Méheust, Y. (2011). Influence of viscous fingering on dynamic saturation–pressure curves in porous media. *Transport in Porous Media*, 86(1), 305–324.
- Luo, J. H., Liu, Y. Z., & Zhu, P. (2006). Polymer solution properties and displacement mechanisms. *Enhanced Oil Recovery-Polymer Flooding*; Shen, P.-P., Liu, Y.-Z., Liu, H.-R., Eds, 1–72.
- Magny, B., Iliopoulos, I., Audebert, R., Piculell, L., & Lindman, B. (1992). Interactions between hydrophobically modified polymers and surfactants. *Trends in Colloid and Interface Science Vi*, 118–121.
- Malik, N. A., & Ali, A. (2016). Krafft temperature and thermodynamic study of interaction of glycine, diglycine, and triglycine with hexadecylpyridinium chloride and hexadecylpyridinium bromide: A conductometric approach.

- Journal of Molecular Liquids*, 213, 213–220.
- Manlowe, D. J., & Radke, C. J. (1990). A pore-level investigation of foam/oil interactions in porous media. *SPE Reservoir Engineering*, 5(04), 495–502.
- Martin, F. D., & Sherwood, N. S. (1975). The Effect of Hydrolysis of Polyacrylamide on Solution Viscosity. *Polymer Retention and Flow Resistance Properties, Paper SPE*, 5339.
- Mattax, C., & Kyte, J. (1961). Ever see a water flood? In *Oil and Gas Journal* (Vol. 59, pp. 115–128).
- Miyake, M., & Oyama, N. (2009). Effect of amidoalkyl group as spacer on aggregation properties of guanidine-type surfactants. *Journal of Colloid and Interface Science*, 330(1), 180–185.
- Moghaddam, M. B., & Rasaei, M. R. (2015). Experimental study of the fracture and matrix effects on free-fall gravity drainage with micromodels. *SPE Journal*, 20(02), 324–336.
- Moore, T. F., & Slobod, R. L. (1955). Displacement of Oil by Water-Effect of Wettability, Rate, and Viscosity on Recovery. In *Fall Meeting of the Petroleum Branch of AIME* (p. SPE-502-G). <https://doi.org/10.2118/502-G>
- Morvan, M., Koetitz, R., Moreau, P., Pavageau, B., Rivoal, P., & Roux, B. (2008). A combinatorial approach for identification of performance EOR surfactants. *SPE Symposium on Improved Oil Recovery*.
- Naseri, N., Ajourlou, E., Asghari, F., & Pilehvar-Soltanahmadi, Y. (2018). An update on nanoparticle-based contrast agents in medical imaging. *Artificial Cells, Nanomedicine, and Biotechnology*, 46(6), 1111–1121.
- Needham, R. B., & Doe, P. H. (1987). Polymer flooding review. *Journal of Petroleum Technology*, 39(12), 1503–1507.
- Nelson, R. C. (1981). Further studies on phase relationships in chemical flooding. In *Surface phenomena in enhanced oil recovery* (pp. 73–104). Springer.
- Nelson, R. C. (1982). The salinity-requirement diagram-A useful tool in chemical flooding research and development. *Society of Petroleum Engineers Journal*, 22(02), 259–270.
- Niu, J. G., Chen, P., Shao, Z. B., Wang, D. M., Sun, G., & Li, Y. (2006). Research

- and development of polymer enhanced oil recovery. *Research and Development of Enhanced Oil Recovery in Daqing*. Petroleum Industry Press, Beijing, 227–325.
- Nordiyana, M. S. W., Khalil, M., Jan, B. M., Ali, B. S., & Tong, C. W. (2016). Formation and phase behavior of Winsor type III *Jatropha curcas*-based microemulsion systems. *Journal of Surfactants and Detergents*, 19(4), 701–712.
- Nourani, M., Panahi, H., Biria, D., Azad, R. R., Haghghi, M., & Mohebbi, A. (2007). Laboratory studies of MEOR in micromodel as a fractured system. *IPTC 2007: International Petroleum Technology Conference*, cp-147.
- Nuss, W. F., & Whiting, R. L. (1947). Technique for reproducing rock pore space. *AAPG Bulletin*, 31(11), 2044–2049.
- Paulsen, J. E., Oppen, E., & Bakke, R. (1997). Biofilm morphology in porous media, a study with microscopic and image techniques. *Water Science and Technology*, 36(1), 1–9.
- Pope, G. A., Tsaur, K., Schechter, R. S., & Wang, B. (1982). The effect of several polymers on the phase behavior of micellar fluids. *Society of Petroleum Engineers Journal*, 22(06), 816–830.
- Puerto, M., Hirasaki, G. J., Miller, C. A., & Barnes, J. R. (2012). Surfactant systems for EOR in high-temperature, high-salinity environments. *SPE Journal*, 17(01), 11–19.
- Pyrak-Nolte, L. J., Nolte, D. D., Chen, D., & Giordano, N. J. (2008). Relating capillary pressure to interfacial areas. *Water Resources Research*, 44(6).
- Rangel-German, E. R., & Kovscek, A. R. (2006). A micromodel investigation of two-phase matrix-fracture transfer mechanisms. *Water Resources Research*, 42(3).
- Rapoport, L. A., & Leas, W. J. (1951). Relative permeability to liquid in liquid-gas systems. *Journal of Petroleum Technology*, 3(03), 83–98.
- Razavinezhad, J., Jafari, A., & Ghalamizade Elyaderani, S. M. (2022). Experimental investigation of multi-walled carbon nanotubes assisted surfactant/polymer flooding for enhanced oil recovery. *Journal of Petroleum*

- Science and Engineering*, 214(January 2021), 110370.
<https://doi.org/10.1016/j.petrol.2022.110370>
- Romero-Zerón, L. (2012). *Introduction to enhanced oil recovery (EOR) processes and bioremediation of oil-contaminated sites*. BoD—Books on Demand.
- Romero-Zerón, L., & Kantzas, A. (2007). The effect of wettability and pore geometry on foamed-gel-blockage performance. *SPE Reservoir Evaluation & Engineering*, 10(02), 150–163.
- Sahimi, M. (1993). Flow phenomena in rocks: from continuum models to fractals, percolation, cellular automata, and simulated annealing. *Reviews of Modern Physics*, 65(4), 1393.
- Salleh, I. K., Misra, S., Ibrahim, J. M. B. M., & Panuganti, S. R. (2019). Micro-emulsion-based dissolver for removal of mixed scale deposition. *Journal of Petroleum Exploration and Production Technology*, 9(4), 2635–2641.
- Sandnes, B., Knudsen, H. A., Måløy, K. J., & Flekkøy, E. G. (2007). Labyrinth patterns in confined granular-fluid systems. *Physical Review Letters*, 99(3), 38001.
- Sarmah, S., Gogoi, S. B., Xianfeng, F., & Baruah, A. A. (2020). Characterization and identification of the most appropriate nonionic surfactant for enhanced oil recovery. *Journal of Petroleum Exploration and Production Technology*, 10(1), 115–123.
- Satter, A., Iqbal, G. M., & Buchwatter, J. L. (2008). Practical enhanced reservoir engineering assisted with simulation software” PennWell Corporation. *Tulsa, Oklahoma, USA*, 688.
- Schön, J. H. (2015). Pore space properties. In *Developments in Petroleum Science* (Vol. 65, pp. 21–84). Elsevier.
- Seright, R. S., Adamski, R. P., Roffall, J. C., & Liauh, W. W. (1983). Rheology and mechanical degradation of EOR polymers. *SPE/British Society of Rheology Conference on Rheology in Crude Oil Production*.
- Sheng, J. (2010). *Modern chemical enhanced oil recovery: theory and practice*. Gulf Professional Publishing.
- Sheng, J. J. (2013). Polymer flooding—fundamentals and field cases. In *Enhanced*

oil recovery field case studies (pp. 63–82). Elsevier.

- Sheng, J. J., Leonhardt, B., & Azri, N. (2015). Status of polymer-flooding technology. *Journal of Canadian Petroleum Technology*, *54*(02), 116–126.
- Soleimani Zohr Shiri, M., Henderson, W., & Mucalo, M. R. (2019). A review of the lesser-studied microemulsion-based synthesis methodologies used for preparing nanoparticle systems of the noble metals, Os, Re, Ir and Rh. *Materials*, *12*(12), 1896.
- Soll, W. E., Celia, M. A., & Wilson, JI. (1993). Micromodel studies of three-fluid porous media systems: Pore-scale processes relating to capillary pressure-saturation relationships. *Water Resources Research*, *29*(9), 2963–2974.
- Song, B., Zhao, J., Wang, B., & Jiang, R. (2009). Synthesis and self-assembly of new light-sensitive Gemini surfactants containing an azobenzene group. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *352*(1–3), 24–30.
- Sorbie, K. S. (1991). Polymer-improved oil recovery, 115 glasgow. *Scotland: Blackie & Son*, 126–163.
- Standnes, D. C., & Austad, T. (2000). Wettability alteration in chalk: 2. Mechanism for wettability alteration from oil-wet to water-wet using surfactants. *Journal of Petroleum Science and Engineering*, *28*(3), 123–143.
- Stegemeier, G. L. (1976). Mechanisms of entrapment and mobilization of oil in porous media. *AICRE Mtng, 81st, Missouri*, 55–91.
- Sugar, A., Serag, M. F., Torrealba, V. A., Buttner, U., Habuchi, S., & Hoteit, H. (2020). Visualization of polymer retention mechanisms in porous media using microfluidics. *Society of Petroleum Engineers - SPE Europec Featured at 82nd EAGE Conference and Exhibition*. <https://doi.org/10.2118/200557-MS>
- Swadesi, B., Kristanto, D., Widyaningsih, I., Wahyuni Murni, S., Husenido, S., Sanmurjana, M., Zumar, R., & Siregar, S. (2021). Experimental Study of Polymer Injection Performance on Oil Recovery Factor Enhancement in Homogeneous and Heterogeneous Porous Media Using Acrylic Micromodel. *SCIREA Journal of Energy*, *6*(5). <https://doi.org/10.54647/energy48138>
- Szabo, M. T. (1979). An evaluation of water-soluble polymers for secondary oil

- Recovery-Parts 1 and 2. *Journal of Petroleum Technology*, 31(05), 553–570.
- Tichelkamp, T., Vu, Y., Nourani, M., & Øye, G. (2014). Interfacial Tension between Low Salinity Solutions of Sulfonate Surfactants and Crude and Model Oils. *Energy & Fuels*, 28(4), 2408–2414. <https://doi.org/10.1021/ef4024959>
- Trushenski, S. P. (1977). Micellar Flooding: Sulfonate–Polymer Interaction. In *Improved Oil Recovery by Surfactant and Polymer Flooding* (pp. 555–575). Elsevier.
- Trushenski, S. P., Dauben, D. L., & Parrish, D. R. (1974). Micellar flooding-fluid propagation, interaction, and mobility. *Society of Petroleum Engineers Journal*, 14(06), 633–645.
- Tsakiroglou, C. D., & Avraam, D. G. (2002). Fabrication of a new class of porous media models for visualization studies of multiphase flow processes. *Journal of Materials Science*, 37(2), 353–363.
- Tsakiroglou, C. D., Theodoropoulou, M. A., & Karoutsos, V. (2003). Nonequilibrium capillary pressure and relative permeability curves of porous media. *AIChE Journal*, 49(10), 2472–2486.
- Vayenas, D. V, Michalopoulou, E., Constantinides, G. N., Pavlou, S., & Payatakes, A. C. (2002). Visualization experiments of biodegradation in porous media and calculation of the biodegradation rate. *Advances in Water Resources*, 25(2), 203–219.
- Wang, J., Xiao, L., Liao, G., Zhang, Y., Guo, L., Arns, C. H., & Sun, Z. (2018). Theoretical investigation of heterogeneous wettability in porous media using NMR. *Scientific Reports*, 8(1), 1–14.
- Whitesides, G. M. (2006). The origins and the future of microfluidics. *Nature*, 442(7101), 368–373.
- Willhite, G. P., & Dominguez, J. G. (1977). Mechanisms of polymer retention in porous media. In *Improved oil recovery by surfactant and polymer flooding* (pp. 511–554). Elsevier.
- Winsor, P. A. (1948). Hydrotrophy, solubilisation and related emulsification processes. *Transactions of the Faraday Society*, 44, 376–398.
- Xia, Y., & Whitesides, G. M. (1998). Soft lithography. *Angewandte Chemie*

International Edition, 37(5), 550–575.

- Xu, W., Ok, J. T., Xiao, F., Neeves, K. B., & Yin, X. (2014). Effect of pore geometry and interfacial tension on water-oil displacement efficiency in oil-wet microfluidic porous media analogs. *Physics of Fluids*, 26(9), 93102.
- Yang, J., & Zhou, Y. (2020). An automatic in situ contact angle determination based on level set method. *Water Resources Research*, 56(7), e2020WR027107.
- Yang, S. H., & Treiber, L. E. (1985). Chemical stability of polyacrylamide under simulated field conditions. *SPE Annual Technical Conference and Exhibition*.
- Yeganeh, M., Hegner, J., Lewandowski, E., Mohan, A., Lake, L. W., Cherney, D., Jusufi, A., & Jaishankar, A. (2016). Capillary Desaturation Curve Fundamentals. In *SPE Improved Oil Recovery Conference* (p. SPE-179574-MS). <https://doi.org/10.2118/179574-MS>
- Youyi, Z., Qingfeng, H., Guoqing, J., Desheng, M. A., & Zhe, W. (2013). Current development and application of chemical combination flooding technique. *Petroleum Exploration and Development*, 40(1), 96–103.
- Zhao, F. L. (1991). Chemistry in Oil Production. *China. University of Petroleum*.
- Zivar, D., Pourafshary, P., & Moradpour, N. (2021). Capillary desaturation curve: does low salinity surfactant flooding significantly reduce the residual oil saturation? *Journal of Petroleum Exploration and Production Technology*, 11(2), 783–794. <https://doi.org/10.1007/s13202-020-01074-1>