

DAFTAR RUJUKAN

- Álvarez, M.S., Longo, M.A., Deive, F.J., Rodríguez, A., 2019. Non-ionic surfactants and ionic liquids are a suitable combination for aqueous two-phase systems. *Fluid Phase Equilib.* 502, 112302. <http://dx.doi.org/10.1016/j.fluid.2019.112302>.
- Alyafei, Nayef. (2019). *Fundamentals of Reservoir Rock Properties*.
- Bales, B.L., Benrraou, M., Zana, R., 2002. Krafft temperature and micelle ionization of aqueous solutions of cesium dodecyl sulfate. *J. Phys. Chem. B* 106, 9033–9035. <http://dx.doi.org/10.1021/jp021297l>.
- Bera, A., Ojha, K., Mandal, A., Kumar, T., 2011. Interfacial tension and phase behavior of surfactant-brine–oil system. *Colloids Surf. A* 383, 114–119. <http://dx.doi.org/10.1016/j.colsurfa.2011.03.035>.
- 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.
- 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.
- Chatenever, A., and J.C. Calhoun, Jr. 1952. Visual examinations of fluid behavior in porous media: Part1. *J. Pet. Technol.* 4:149–156. doi:10.2118/135-G.
- Chen, D., L.J. Pyrak-Nolte, J. Griffin, and N.J. Giordano. 2007. Measurement of interfacial area per volume for drainage and imbibitions. *Water Resour. Res.* 43: W12504. doi:10.1029/2007WR006021.
- Cheng, J.-T. 2002. Fluid flow in ultra-small capillaries. Ph.D. diss. Purdue Univ., West Lafayette, IN.
- Cheng, J.-T., L.J. Pyrak-Nolte, D.D. Nolte, and N.J. Giordano. 2004. Linking pressure and saturation through interfacial areas in porous media. *Geophys. Res. Lett.* 31: L08502. doi:10.1029/2003GL019282.

- Cong, Y., Zhang, W., Liu, C., Huang, F., 2020. Composition and oil-water interfacial tension studies in different vegetable oils. *Food Biophys.* 15, 229–239. <http://dx.doi.org/10.1007/s11483-019-09617-8>.
- Corapcioglu, M.Y., S. Chowdhury, and S.E. Roosevelt. 1997. Micromodel visualization and quantification of solute transport in porous media. *Water Resour. Res.* 33:2547–2558. doi:10.1029/97WR02115.
- Cottin, C., H. Bodiguel, and A. Colin. 2010. Drainage in two-dimensional porous media: From capillary to viscous flow. *Phys. Rev. E* 82:046315. doi:10.1103/PhysRevE.82.046315.
- Danesh A, Peden JM, Krinis D, Henderson GD (1987) Pore level visual investigation of oil recovery by solution gas drive and gas injection. SPE annual technical conference and exhibition, 27–30 September, Dallas, Texas.
- 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. <http://dx.doi.org/10.1016/j.fuel.2019.116601>.
- Deng, X., Tariq, Z., Murtaza, M., Patil, S., Mahmoud, M., & Kamal, M. S. (2021). Relative contribution of wettability Alteration and interfacial tension reduction in EOR: A critical review. *Journal of Molecular Liquids*, 325, 115175.
- Dong, M., Q. Liu, and A. Li. 2007. Micromodel Study of the displacement mechanisms of enhanced oil recovery by alkaline flooding. Paper presented at: International Symposium of the Society of Core Analysts, Calgary, AB, Canada. 10–12 Sept. 2007. Paper SCA 2007-47.
- Dong, M., and I. Chatzis. 2010. Effect of capillary pressure on wetting film imbibition ahead of main liquid–gas displacement front in porous media. *Pet.Sci. Technol.* 28:955–968. doi:10.1080/10916460902937067.
- Green, D.W., Willhite, G.P.: “Enhanced Oil Recovery”. Henry L. Doherty Memorial Fund of AIME. SPE of AIME, New York. 1998.
- Guo, Y., Zhang, L., Zhu, G., Yao, J., Sun, H., Song, W., ... & Zhao, J. (2019). A pore-scale investigation of residual oil distributions and enhanced oil recovery methods. *Energies*, 12(19), 3732.

- 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 Surf. A* 482, 27–33. <http://dx.doi.org/10.1016/j.colsurfa.2015.04.009>.
- Hosseinioosheri, P., Lashgari, H.R., Sepehrmoori, K., 2016. A novel method to model and characterize in-situ bio-surfactant production in microbial enhanced oil recovery. *Fuel* 183, 501–511. <http://dx.doi.org/10.1016/j.fuel.2016.06.035>.
- Illous, E., Ontiveros, J.F., Lemahieu, G., Lebeuf, R., Aubry, J.-M., 2020. Amphiphilicity and salt-tolerance of ethoxylated and propoxylated anionic surfactants. *Colloids Surf. A* 601, 124786. <http://dx.doi.org/10.1016/j.colsurfa.2020.124786>.
- 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. <http://dx.doi.org/10.1016/j.fuel.2018.09.053>.
- Kachangoon, R., Vichapong, J., Santaladchaiyakit, Y., Srijaranai, S., 2020. Cloudpoint extraction coupled to in-situ metathesis reaction of deep eutectic solvents for preconcentration and liquid chromatographic analysis of neonicotinoid insecticide residues in water, soil and urine samples. *Microchem. J.* 152, 104377. <http://dx.doi.org/10.1016/j.microc.2019.104377>.
- Kalantari Meybodi, M., Shokrollahi, A., Safari, H., Lee, M., Bahadori, A., 2015. A computational intelligence scheme for prediction of interfacial tension between pure hydrocarbons and water. *Chem. Eng. Res. Des.* 95, 79–92. <http://dx.doi.org/10.1016/j.cherd.2015.01.004>.
- Kamal, M. S., Hussein, I. A., & Sultan, A. S. (2017). Review on surfactant flooding: phase behavior, retention, IFT, and field applications. *Energy & fuels*, 31(8), 7701-7720.
- Karadimitriou, N., & Hassanizadeh, S. (2012). A Review of Micromodels and Their Use in Two-Phase Flow Studies. *Vadose Zone Journal*, 11.
- Khaleel, O., Teklu, T.W., Alameri, W., Abass, H., Kazemi, H., 2019. Wettability alteration of carbonate reservoir cores—laboratory evaluation using

- complementary techniques. *SPE Reserv. Eval. Eng.* 22, 911–922. <http://dx.doi.org/10.2118/194483-PA>.
- 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.
- Levorsen, A. I. (2001). *Geology of petroleum*. American Association of Petroleum Geologists.
- 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., 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.
- Lovoll, G., M. Jankov, K.J. Maloy, R. Toussaint, J. Schmittbuhl, G. Schafer, and Y. Meheust. 2010. Influence of viscous fingering on dynamic saturation–pressure curves in porous media. *Transp. Porous Media* 86:335–354.
- Miyake, M., Oyama, N., 2009. Effect of amidoalkyl group as spacer on aggregation properties of guanidine-type surfactants. *J. Colloid Interface Sci.* 330, 180–185. <http://dx.doi.org/10.1016/j.jcis.2008.10.047>.
- 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., Ajorlou, 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.
- Nourani, M., H. Panahi, D. Biria, R. Roosta Azad, M. Haghghi, and A. Mohebbi. 2007. Laboratory Studies of MEOR in Micromodel as a Fractured System. Paper presented at: Eastern Regional Meeting, Lexington, KY. 17–19 Oct. 2007. Paper 110988-MS. doi:10.2118/110988-MS.
- 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. *J. Surfactants Deterg.* 19, 701–712.
<http://dx.doi.org/10.1007/s11743-016-1814-y>.
- 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.
- Ryles, R.G., 1983. Elevated temperature testing of motility-control reagents. Paper SPE 12008 presented at the SPE Annual Technical Conference and Exhibition, San Francisco, 5–8 October.
- Rapoport, L.A., and W.J. Leas. 1951. Relative permeability to liquid in liquid–gas systems. *J. Pet. Technol.* 3:83–98.
- Salleh, I.K., Misra, S., Ibrahim, J.M.B.M., Panuganti, S.R., 2019. Micro-emulsion-based dissolver for removal of mixed scale deposition. *J. Pet. Explor. Prod. Technol.* 9, 2635–2641. <http://dx.doi.org/10.1007/s13202-019-0643-8>.
- Sandnes, B., H.A. Knudsen, K.J. Måløy, and E.G. Flekkøy. 2007. Labyrinth patterns in confined granular–fluid systems. *Phys. Rev. Lett.* 99(3):038001. doi:10.1103/PhysRevLett.99.038001.
- Sarmah, S., Gogoi, S.B., Xianfeng, F., Baruah, A.A., 2020. Characterization and identification of the most appropriate nonionic surfactant for enhanced oil recovery. *J. Pet. Explor. Prod. Technol.* 10, 115–123. <http://dx.doi.org/10.1007/s13202-019-0682-1>.
- Sheng, J. (2010). *Modern chemical enhanced oil recovery: theory and practice*. Gulf Professional Publishing.
- Sheng JJ (2011) *Modern chemical enhanced oil recovery: theory and practice*. ISBN 978-1-85617-745-0.
- Shiri, MSZ., Henderson, W., Mucalo, MR., 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. In: *Mater* 2019, Vol. 12. p. 1896. <http://dx.doi.org/10.3390/MA12121896>, 12, 1896.
- Soll, W.E., M.A. Celia, and J.L. Wilson. 1993. Micromodel studies of three-fluid porous media systems: Pore-scale processes relating to capillary pressure–saturation relationships. *Water Resour. Res.* 29:2963–2974. doi:10.1029/93WR00524.

- Tsakiroglou, C.D., and D.G. Avraam. 2002. Fabrication of a new class of porous media models for visualization studies of multiphase flow processes. *J. Mater. Sci.* 37:353. doi:10.1023/A:1013660514487.
- Winsor, P. A. (1948). Hydrotrophy, solubilisation and related emulsification processes. *Transactions of the Faraday Society*, 44, 376–398.
- Yang, S.H., Treiber, L.E., 1985. Chemical stability of polyacrylamide under simulated field conditions. Paper SPE 14232 presented at the SPE Annual Technical Conference and Exhibition, Las Vegas, 22–26 September.