

# Publications

## Book

- **Dejam, M.:** Well Logging: Petrophysical Evaluation of Hydrocarbon Reservoirs Using Well Logging Data and Tools Operation, Tehran: *Iranian Offshore Oil Company*, 2008. ISBN: [978-964-04-2264-9](#)

## Journal Articles

- Dordzie, G. and **Dejam, M.** (2021), Enhanced oil recovery from fractured carbonate reservoirs using nanoparticles with low salinity water and surfactant: A review on experimental and simulation studies. *Advances in Colloid and Interface Science*, 293: 102449. DOI: [10.1016/j.cis.2021.102449](#)
- Nguyen, M. C., **Dejam, M.**, Fazelalavi, M., Zhang, Y., Gay, G. W., Bowen, D. W., Spangler, L. H., Zaluski, W. and Stauffer, P. H. (2021), Skin factor and potential formation damage from chemical and mechanical processes in a naturally fractured carbonate aquifer with implications to CO<sub>2</sub> sequestration. *International Journal of Greenhouse Gas Control*, 108: 103326. DOI: [10.1016/j.ijggc.2021.103326](#)
- Kamyab, M., Simjoo, M., **Dejam, M.** and Alamatsaz, A. (2021), Numerical study of immiscible foam propagation in porous media in the presence of oil using an implicit-texture foam model. *Energy & Fuels*, 35(8): 6553-6565. DOI: [10.1021/acs.energyfuels.0c04076](#)
- Qiu, X., Yang, H., **Dejam, M.**, Tan, S. P. and Adidharma, H. (2021), Experiments on the capillary condensation/evaporation hysteresis of pure fluids and binary mixtures in cylindrical nanopores. *The Journal of Physical Chemistry C*, 125(10): 5802-5815. DOI: [10.1021/acs.jpcc.0c10840](#)
- Bollineni, P. K., Dordzie, G., Olayiwola, S. O. and **Dejam, M.** (2021), An experimental investigation of the viscosity behavior of solutions of nanoparticles, surfactants, and electrolytes. *Physics of Fluids*, 33(2): 026601. DOI: [10.1063/5.0038002](#)
- Olayiwola, S. O. and **Dejam, M.** (2021), Comprehensive experimental study on the effect of silica nanoparticles on the oil recovery during alternating injection with low salinity water and surfactant into carbonate reservoirs. *Journal of Molecular Liquids*, 325: 115178. DOI: [10.1016/j.molliq.2020.115178](#)
- Mazlumi, F., Mosharaf-Dehkordi, M. and **Dejam, M.** (2021), Simulation of two-phase incompressible fluid flow in highly heterogeneous porous media by considering localization assumption in multiscale finite volume method. *Applied Mathematics and Computation*, 390: 125649. DOI: [10.1016/j.amc.2020.125649](#)
- Qiu, X., Tan, S. P., **Dejam, M.** and Adidharma, H. (2021), Binary fluid mixtures confined in nanoporous media: Experimental evidence of no phase coexistence. *Chemical Engineering Journal*, 405: 127021. DOI: [10.1016/j.cej.2020.127021](#)
- Olayiwola, S. O. and **Dejam, M.** (2020), Synergistic interaction of nanoparticles with low salinity water and surfactant during alternating injection into sandstone reservoirs to improve oil recovery and reduce formation damage. *Journal of Molecular Liquids*, 317: 114228. DOI: [10.1016/j.molliq.2020.114228](#)
- Kou, Z. and **Dejam, M.** (2020), Control of shear dispersion by the permeable porous wall of a capillary tube. *Chemical Engineering & Technology*, 43(11): 2208-2214. DOI: [10.1002/ceat.201900687](#)

- Bhattacharjee, S., **Dejam, M.** and De, S. (2020), Effects of finite ion size on transport of neutral solute across porous wall of a nanotube. *Theoretical and Computational Fluid Dynamics*, 34(5-6): 659-677. DOI: [10.1007/s00162-020-00540-0](https://doi.org/10.1007/s00162-020-00540-0)
- Azari, M., Sadeghi, A. and **Dejam, M.** (2020), Liquid flow forced convection in rectangular microchannels with non-uniform heating: Toward analytical modeling of hotspots. *Journal of Heat Transfer*, 142(8): 082505. DOI: [10.1115/1.4047148](https://doi.org/10.1115/1.4047148)
- Qiu, X., Tan, S. P., **Dejam, M.** and Adidharma, H. (2020), Isochoric measurement of the evaporation point of pure fluids in bulk and nanoporous media using differential scanning calorimetry. *Physical Chemistry Chemical Physics*, 22(13): 7048-7057. DOI: [10.1039/D0CP00900H](https://doi.org/10.1039/D0CP00900H)
- Tazikeh, S., Sayyad Amin, J., Zendehboudi, S., **Dejam, M.** and Chatzis, I. (2020), Bi-fractal and bi-Gaussian theories to evaluate impact of polythiophene-coated Fe<sub>3</sub>O<sub>4</sub> nanoparticles on asphaltene precipitation and surface topography. *Fuel*, 272: 117535. DOI: [10.1016/j.fuel.2020.117535](https://doi.org/10.1016/j.fuel.2020.117535)
- Hayati-Jafarbeigi, S., Mosharaf-Dehkordi, M., Ziaei-Rad, M. and **Dejam, M.** (2020), A three-dimensional coupled well-reservoir flow model for determination of horizontal well characteristics. *Journal of Hydrology*, 585: 124805. DOI: [10.1016/j.jhydrol.2020.124805](https://doi.org/10.1016/j.jhydrol.2020.124805)
- Olayiwola, S. O. and **Dejam, M.** (2020), Experimental study on the viscosity behavior of silica nanofluids with different ions of electrolytes. *Industrial & Engineering Chemistry Research*, 59(8): 3575-3583. DOI: [10.1021/acs.iecr.9b06275](https://doi.org/10.1021/acs.iecr.9b06275)
- Olayiwola, S. O. and **Dejam, M.** (2020), Interfacial energy for solutions of nanoparticles, surfactants, and electrolytes. *American Institute of Chemical Engineers Journal*, 66(4): e16891. DOI: [10.1002/aic.16891](https://doi.org/10.1002/aic.16891)
- Duan, Y.-G., Ren, K.-Y., Fang, Q.-T., Wei, M.-Q., **Dejam, M.** and Chen, W.-H. (2020), Pressure transient analysis for a horizontal well in heterogeneous carbonate reservoirs using a linear composite model. *Mathematical Problems in Engineering*, 2020: 3267458. DOI: [10.1155/2020/3267458](https://doi.org/10.1155/2020/3267458)
- Asadi, M. B., **Dejam, M.** and Zendehboudi, S. (2020), Semi-analytical solution for productivity evaluation of a multi-fractured horizontal well in a bounded dual-porosity reservoir. *Journal of Hydrology*, 581: 124288. DOI: [10.1016/j.jhydrol.2019.124288](https://doi.org/10.1016/j.jhydrol.2019.124288)
- Rostami, P., Sharifi, M. and **Dejam, M.** (2020), Shape factor for regular and irregular matrix blocks in fractured porous media. *Petroleum Science*, 17(1): 136-152. DOI: [10.1007/s12182-019-00399-9](https://doi.org/10.1007/s12182-019-00399-9)
- Wei, M., Ren, K., Duan, Y., Chen, Q. and **Dejam, M.** (2019), Production decline behavior analysis of a vertical well with a natural water influx/waterflood. *Mathematical Problems in Engineering*, 2019: 1683989. DOI: [10.1155/2019/1683989](https://doi.org/10.1155/2019/1683989)
- Qiu, X., Tan, S. P., **Dejam, M.** and Adidharma, H. (2019), Experimental study on the criticality of a methane/ethane mixture confined in nanoporous media. *Langmuir*, 35(36): 11635-11642. DOI: [10.1021/acs.langmuir.9b01399](https://doi.org/10.1021/acs.langmuir.9b01399)
- **Dejam, M.** (2019), Tracer dispersion in a hydraulic fracture with porous walls. *Chemical Engineering Research and Design*, 150: 169-178. DOI: [10.1016/j.cherd.2019.07.027](https://doi.org/10.1016/j.cherd.2019.07.027)
- Kou, Z. and **Dejam, M.** (2019), Dispersion due to combined pressure-driven and electro-osmotic flows in a channel surrounded by a permeable porous medium. *Physics of Fluids*, 31(5): 056603. DOI: [10.1063/1.5092199](https://doi.org/10.1063/1.5092199)

- **Dejam, M.** (2019), Derivation of dispersion coefficient in an electro-osmotic flow of a viscoelastic fluid through a porous-walled microchannel. *Chemical Engineering Science*, 204: 298-309. DOI: [10.1016/j.ces.2019.04.027](https://doi.org/10.1016/j.ces.2019.04.027)
- Azarmanesh, M., **Dejam, M.**, Azizian, P., Yesiloz, G., Mohamad, A. A. and Sanati-Nezhad, A. (2019), Passive microinjection within high-throughput microfluidics for controlled actuation of droplets and cells. *Scientific Reports*, 9: 6723. DOI: [10.1038/s41598-019-43056-2](https://doi.org/10.1038/s41598-019-43056-2)
- Tan, S. P., Qiu, X., **Dejam, M.** and Adidharma, H. (2019), Critical point of fluid confined in nanopores: Experimental detection and measurement. *The Journal of Physical Chemistry C*, 123(15): 9824-9830. DOI: [10.1021/acs.jpcc.9b00299](https://doi.org/10.1021/acs.jpcc.9b00299)
- **Dejam, M.** (2019), Hydrodynamic dispersion due to a variety of flow velocity profiles in a porous-walled microfluidic channel. *International Journal of Heat and Mass Transfer*, 136: 87-98. DOI: [10.1016/j.ijheatmasstransfer.2019.02.081](https://doi.org/10.1016/j.ijheatmasstransfer.2019.02.081)
- **Dejam, M.** (2019), Advective-diffusive-reactive solute transport due to non-Newtonian fluid flows in a fracture surrounded by a tight porous medium. *International Journal of Heat and Mass Transfer*, 128: 1307-1321. DOI: [10.1016/j.ijheatmasstransfer.2018.09.061](https://doi.org/10.1016/j.ijheatmasstransfer.2018.09.061)
- Olayiwola, S. O. and **Dejam, M.** (2019), A comprehensive review on interaction of nanoparticles with low salinity water and surfactant for enhanced oil recovery in sandstone and carbonate reservoirs. *Fuel*, 241: 1045-1057. DOI: [10.1016/j.fuel.2018.12.122](https://doi.org/10.1016/j.fuel.2018.12.122)
- Olayiwola, S. O. and **Dejam, M.** (2019), Mathematical modelling of surface tension of nanoparticles in electrolyte solutions. *Chemical Engineering Science*, 197: 345-356. DOI: [10.1016/j.ces.2018.11.047](https://doi.org/10.1016/j.ces.2018.11.047)
- Azizian, P., Azarmanesh, M., **Dejam, M.**, Mohammadi, M., Shamsi, M., Sanati-Nezhad, A. and Mohamad, A. A. (2019), Electrohydrodynamic formation of single and double emulsions for low interfacial tension multiphase systems within microfluidics. *Chemical Engineering Science*, 195: 201-207. DOI: [10.1016/j.ces.2018.11.050](https://doi.org/10.1016/j.ces.2018.11.050)
- He, L., Mei, H., Hu, X., **Dejam, M.**, Kou, Z. and Zhang, M. (2019), Advanced flowing material balance to determine original gas in place of shale gas considering adsorption hysteresis. *SPE Reservoir Evaluation and Engineering*, 22(4): 1282-1292. DOI: [10.2118/195581-PA](https://doi.org/10.2118/195581-PA)
- Wei, M., Duan, Y., Dong, M., Fang, Q. and **Dejam, M.** (2019), Transient production decline behavior analysis for a multi-fractured horizontal well with discrete fracture networks in shale gas reservoirs. *Journal of Porous Media*, 22(3): 343-361. DOI: [10.1615/JPorMedia.2019028982](https://doi.org/10.1615/JPorMedia.2019028982)
- Qiu, X., Tan, S. P., **Dejam, M.** and Adidharma, H. (2019), Simple and accurate isochoric differential scanning calorimetry measurements: Phase transitions for pure fluids and mixtures in nanopores. *Physical Chemistry Chemical Physics*, 21(1): 224-231. DOI: [10.1039/C8CP06691D](https://doi.org/10.1039/C8CP06691D)
- Dakhelpour-Ghoveifel, J., Shegeftfard, M. and **Dejam, M.** (2019), Capillary-based method for rock typing in transition zone of carbonate reservoirs. *Journal of Petroleum Exploration and Production Technology*, 9(3): 2009-2018. DOI: [10.1007/s13202-018-0593-6](https://doi.org/10.1007/s13202-018-0593-6)
- Rostami, P., Fattahi Mehraban, M., Sharifi, M., **Dejam, M.** and Ayatollahi, S. (2019), Effect of water salinity on oil/brine interfacial behavior during low salinity waterflooding: A mechanistic study. *Petroleum*, 5(4): 367-374. DOI: [10.1016/j.petlm.2019.03.005](https://doi.org/10.1016/j.petlm.2019.03.005)
- Rony, A. H., Kong, L., Lu, W., **Dejam, M.**, Adidharma, H., Gasem, K. A. M., Zheng, Y., Norton, U. and Fan, M. (2019), Kinetics, thermodynamics, and physical characterization of corn stover (*Zea mays*) for solar biomass pyrolysis potential analysis. *Bioresource Technology*, 284: 466-473. DOI: [10.1016/j.biortech.2019.03.049](https://doi.org/10.1016/j.biortech.2019.03.049)

- Qiu, X., Tan, S. P., **Dejam, M.** and Adidharma, H. (2018), Novel isochoric measurement of the onset of vapor-liquid phase transition using differential scanning calorimetry. *Physical Chemistry Chemical Physics*, 20(41): 26241-26248. DOI: [10.1039/C8CP05613G](https://doi.org/10.1039/C8CP05613G)
- **Dejam, M.** and Hassanzadeh, H. (2018), The role of natural fractures of finite double-porosity aquifers on diffusive leakage of brine during geological storage of CO<sub>2</sub>. *International Journal of Greenhouse Gas Control*, 78: 177-197. DOI: [10.1016/j.ijggc.2018.08.007](https://doi.org/10.1016/j.ijggc.2018.08.007)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2018), Semi-analytical solution for pressure transient analysis of a hydraulically fractured vertical well in a bounded dual-porosity reservoir. *Journal of Hydrology*, 565: 289-301. DOI: [10.1016/j.jhydrol.2018.08.020](https://doi.org/10.1016/j.jhydrol.2018.08.020)
- Dehghan Manshadi, M. K., Saadat, M., Mohammadi, M., Shamsi, M., **Dejam, M.**, Kamali, R. and Sanati-Nezhad, A. (2018), Delivery of magnetic micro/nanoparticles and magnetic-based drug/cargo into arterial flow for targeted therapy. *Drug Delivery*, 25(1): 1963-1973. DOI: [10.1080/10717544.2018.1497106](https://doi.org/10.1080/10717544.2018.1497106)
- **Dejam, M.** (2018), Dispersion in non-Newtonian fluid flows in a conduit with porous walls. *Chemical Engineering Science*, 189: 296-310. DOI: [10.1016/j.ces.2018.05.058](https://doi.org/10.1016/j.ces.2018.05.058)
- Shamsi, M., Saghafian, M., **Dejam, M.** and Sanati-Nezhad, A. (2018), Mathematical modeling of the function of Warburg effect in tumor microenvironment. *Scientific Reports*, 8: 8903. DOI: [10.1038/s41598-018-27303-6](https://doi.org/10.1038/s41598-018-27303-6)
- Shamsi, M., Sedaghatkish, A., **Dejam, M.**, Saghafian, M., Mohammadi, M. and Sanati-Nezhad, A. (2018), Magnetically assisted intraperitoneal drug delivery for cancer chemotherapy. *Drug Delivery*, 25(1): 846-861. DOI: [10.1080/10717544.2018.1455764](https://doi.org/10.1080/10717544.2018.1455764)
- Zhang, L., Kou, Z., Wang, H., Zhao, Y., **Dejam, M.**, Guo, J. and Du, J. (2018), Performance analysis for a model of a multi-wing hydraulically fractured vertical well in a coalbed methane gas reservoir. *Special Issue on "Advances in Hydraulic Fracturing: Theory and Practice"*, *Journal of Petroleum Science and Engineering*, 166: 104-120. DOI: [10.1016/j.petrol.2018.03.038](https://doi.org/10.1016/j.petrol.2018.03.038)
- **Dejam, M.** (2018), The role of fracture capillary pressure on the block-to-block interaction process. *Journal of Porous Media*, 21(11): 1121-1136. DOI: [10.1615/JPorMedia.2018028668](https://doi.org/10.1615/JPorMedia.2018028668)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2018), Shear dispersion in a rough-walled fracture. *Society of Petroleum Engineers Journal*, 23(5): 1669-1688. DOI: [10.2118/189994-PA](https://doi.org/10.2118/189994-PA)
- **Dejam, M.** and Hassanzadeh, H. (2018), Diffusive leakage of brine from aquifers during CO<sub>2</sub> geological storage. *Advances in Water Resources*, 111: 36-57. DOI: [10.1016/j.advwatres.2017.10.029](https://doi.org/10.1016/j.advwatres.2017.10.029)
- Amirian, E., **Dejam, M.** and Chen, Z. (2018), Performance forecasting for polymer flooding in heavy oil reservoirs. *Fuel*, 216: 83-100. DOI: [10.1016/j.fuel.2017.11.110](https://doi.org/10.1016/j.fuel.2017.11.110)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2018), A reduced-order model for chemical species transport in a tube with a constant wall concentration. *The Canadian Journal of Chemical Engineering*, 96(1): 307-316. DOI: [10.1002/cjce.22863](https://doi.org/10.1002/cjce.22863)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2017), Pre-Darcy flow in porous media. *Water Resources Research*, 53(10): 8187-8210. DOI: [10.1002/2017WR021257](https://doi.org/10.1002/2017WR021257)
- Saboorian-Jooybari, H., **Dejam, M.**, Chen, Z. and Pourafshary, P. (2016), Comprehensive evaluation of fracture parameters by dual laterolog data. *Journal of Applied Geophysics*, 131: 214-221. DOI: [10.1016/j.jappgeo.2016.06.005](https://doi.org/10.1016/j.jappgeo.2016.06.005)



- Nikpoor, M. H., **Dejam, M.**, Chen, Z. and Clarke, M. (2016), Chemical-gravity-thermal diffusion equilibrium in two-phase non-isothermal petroleum reservoirs. *Energy & Fuels*, 30(3): 2021-2034. DOI: [10.1021/acs.energyfuels.5b02753](https://doi.org/10.1021/acs.energyfuels.5b02753)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2016), Shear dispersion in a capillary tube with a porous wall. *Journal of Contaminant Hydrology*, 185-186: 87-104. DOI: [10.1016/j.jconhyd.2016.01.007](https://doi.org/10.1016/j.jconhyd.2016.01.007)
- Saboorian-Jooybari, H., **Dejam, M.** and Chen, Z. (2016), Heavy oil polymer flooding from laboratory core floods to pilot tests and field applications: Half-century studies. *Journal of Petroleum Science and Engineering*, 142: 85-100. DOI: [10.1016/j.petrol.2016.01.023](https://doi.org/10.1016/j.petrol.2016.01.023)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2015), Shear dispersion in combined pressure-driven and electro-osmotic flows in a capillary tube with a porous wall. *American Institute of Chemical Engineers Journal*, 61(11): 3981-3995. DOI: [10.1002/aic.14897](https://doi.org/10.1002/aic.14897)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2015), Shear dispersion in combined pressure-driven and electro-osmotic flows in a channel with porous walls. *Chemical Engineering Science*, 137: 205-215. DOI: [10.1016/j.ces.2015.06.028](https://doi.org/10.1016/j.ces.2015.06.028)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2015), Capillary forces between two parallel plates connected by a liquid bridge. *Journal of Porous Media*, 18(3): 179-188. DOI: [10.1615/JPorMedia.v18.i3.10](https://doi.org/10.1615/JPorMedia.v18.i3.10)
- Saboorian-Jooybari, H., **Dejam, M.** and Chen, Z. (2015), Equilibrium or nonequilibrium models: a critical issue in determination of gas diffusivity in oil. *Journal of Canadian Petroleum Technology*, 54(2): 78-80. DOI: [10.2118/0315-078-JCPT](https://doi.org/10.2118/0315-078-JCPT)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2014), Reinfiltration through liquid bridges formed between two matrix blocks in fractured rocks. *Journal of Hydrology*, 519: 3520-3530. DOI: [10.1016/j.jhydrol.2014.10.050](https://doi.org/10.1016/j.jhydrol.2014.10.050)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2014), Shear dispersion in a fracture with porous walls. *Advances in Water Resources*, 74: 14-25. DOI: [10.1016/j.advwatres.2014.08.005](https://doi.org/10.1016/j.advwatres.2014.08.005)
- Mashayekhizadeh, V., Kord, S. and **Dejam, M.** (2014), EOR potential within Iran. *Special Topics & Reviews in Porous Media - An International Journal*, 5(4): 325-354. DOI: [10.1615/SpecialTopicsRevPorousMedia.v5.i4.50](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.v5.i4.50)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2014), Shape of liquid bridges in a horizontal fracture. *Journal of Fluid Flow, Heat and Mass Transfer*, 1: 1-8. DOI: [10.11159/jffhmt.2014.001](https://doi.org/10.11159/jffhmt.2014.001)
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z. (2013), Semi-analytical solutions for a partially penetrated well with wellbore storage and skin effects in a double-porosity system with a gas cap. *Transport in Porous Media*, 100(2): 159-192. DOI: [10.1007/s11242-013-0210-6](https://doi.org/10.1007/s11242-013-0210-6)
- Mashayekhizadeh, V., Kharrat, R., Ghazanfari, M. H. and **Dejam, M.** (2012), An experimental investigation of fracture tilt angle effects on frequency and stability of liquid bridges in fractured porous media. *Petroleum Science and Technology*, 30(8): 807-816. DOI: [10.1080/10916466.2010.492370](https://doi.org/10.1080/10916466.2010.492370)
- **Dejam, M.**, Ghazanfari, M. H., Kamyab, M. and Masihi, M. (2011), The gas-oil gravity drainage model in a single matrix block: a new relationship between relative permeability and capillary pressure functions. *Journal of Porous Media*, 14(8): 709-720. DOI: [10.1615/JPorMedia.v14.i8.50](https://doi.org/10.1615/JPorMedia.v14.i8.50)
- **Dejam, M.**, Ghazanfari, M. H., Mashayekhizadeh, V. and Kamyab, M. (2011), Factors affecting the gravity drainage mechanism from a single matrix block in naturally fractured reservoirs.

**Special Topics & Reviews in Porous Media - An International Journal**, 2(2): 115-124. DOI: [10.1615/SpecialTopicsRevPorousMedia.v2.i2.50](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.v2.i2.50)

- Mashayekhizadeh, V., **Dejam, M.** and Ghazanfari, M. H. (2011), The application of numerical Laplace inversion methods for type curve development in well testing: a comparative study. **Petroleum Science and Technology**, 29(7): 695-707. DOI: [10.1080/10916460903394060](https://doi.org/10.1080/10916460903394060)
- Mashayekhizadeh, V., Ghazanfari, M. H., Kharrat, R. and **Dejam, M.** (2011), Pore-level observation of free gravity drainage of oil in fractured porous media. **Transport in Porous Media**, 87(2): 561-584. DOI: [10.1007/s11242-010-9701-x](https://doi.org/10.1007/s11242-010-9701-x)
- **Dejam, M.** and Hassanzadeh, H. (2011), Formation of liquid bridges between porous matrix blocks. **American Institute of Chemical Engineers Journal**, 57(2): 286-298. DOI: [10.1002/aic.12262](https://doi.org/10.1002/aic.12262)

## Conference Papers

- Olayiwola, S. O. and **Dejam, M.**: Effect of Silica Nanoparticles on the Oil Recovery during Alternating Injection with Low Salinity Water and Surfactant into Carbonate Reservoirs, Paper SPE 201586, **SPE Annual Technical Conference and Exhibition**, Virtual, 26-29 October 2020. DOI: [10.2118/201586-MS](https://doi.org/10.2118/201586-MS)
- Saboorian-Jooybari, H., **Dejam, M.** and Chen, Z.: Half-Century of Heavy Oil Polymer Flooding from Laboratory Core Floods to Pilot Tests and Field Applications, Paper SPE 174402, **SPE Canada Heavy Oil Technical Conference**, Calgary, Alberta, Canada, 9-11 June 2015. DOI: [10.2118/174402-MS](https://doi.org/10.2118/174402-MS)
- Saboorian-Jooybari, H., **Dejam, M.**, Chen, Z. and Pourafshary, P.: Fracture Identification and Comprehensive Evaluation of the Parameters by Dual Laterolog Data, Paper SPE 172947, **SPE Middle East Unconventional Resources Conference and Exhibition**, Muscat, Oman, 26-28 January 2015. DOI: [10.2118/172947-MS](https://doi.org/10.2118/172947-MS)
- Saboorian-Jooybari, H., **Dejam, M.** and Chen, Z.: Equilibrium or Nonequilibrium Models: A Critical Issue in Determination of Gas Diffusivity in Oil, Paper SPE 170030, **SPE Heavy Oil Conference**, Calgary, Alberta, Canada, 10-12 June 2014. DOI: [10.2118/170030-MS](https://doi.org/10.2118/170030-MS)
- **Dejam, M.**, Ghazanfari, M. H. and Masihi, M.: Theoretical Modeling of Reinfiltration Process in Naturally Fractured Reservoirs: A Comparative Study on Traveling Liquid Bridges and Continuum Film Flow Approaches, Paper SPE 125307, **SPE/EAGE Reservoir Characterization and Simulation Conference**, Abu Dhabi, UAE, 19-21 October 2009. DOI: [10.2118/125307-MS](https://doi.org/10.2118/125307-MS)
- **Dejam, M.** and Masihi, M.: Formation of Traveling Liquid Bridges between Matrix Blocks: Modeling and Simulation, **1st International Petroleum Conference and Exhibition**, On behalf of the EAGE (European Association of Geoscientists & Engineers), Shiraz, Iran, 4-6 May 2009. DOI: [10.3997/2214-4609.20145913](https://doi.org/10.3997/2214-4609.20145913)

## Presentations

- Dordzie, G. and **Dejam, M.**: Implementation of Nanoparticles with Low-Salinity Water and Surfactant for EOR from Fractured Carbonate Reservoirs, **Annual Meeting of the PAW (Petroleum Association of Wyoming)**, Cheyenne, Wyoming, USA, 25-27 August 2021.
- Dordzie, G. and **Dejam, M.**: Implementation of Nanoparticles with Low-Salinity Water and Surfactant for EOR from Fractured Carbonate Reservoirs, **Wyoming Legislature Joint Minerals Committee**, Laramie, Wyoming, USA, 12 August 2021.

- Qiu, X., Tan, S. P., **Dejam, M.**, Fan, M. and Adidharma, H.: New Isochoric Method to Measure the Phase Transitions of Binary Mixtures Confined in Nanopores, **31st European Symposium on Applied Thermodynamics**, Paris, France, 5-9 July 2021.
- Nguyen, M. C., **Dejam, M.**, Zhang, Y., Bowen, D. W., Fazelalavi, M. and Stauffer, P. H.: Potential Formation Damage: An Integrated Reservoir Characterization Study of the Naturally Fractured Carbonate Middle Duperow Formation at the Kevin Dome, Montana, **AAPG (American Association of Petroleum Geologists) Annual Convention and Exhibition (ACE)**, Online, 29 September-1 October 2020.
- Olayiwola, S. O. and **Dejam, M.**: The Impact of Monovalent and Divalent Ions on the Viscosity of a Solution with Silica Nanoparticles, **72nd Annual Meeting of the APS (American Physical Society) Division of Fluid Dynamics**, Seattle, Washington, USA, 23-26 November 2019.
- Phan, T. N., **Dejam, M.** and Kamyab, M.: Modification of Water Injection Monitoring for Evaluation of Hydraulic Fracturing Efficiency, **72nd Annual Meeting of the APS (American Physical Society) Division of Fluid Dynamics**, Seattle, Washington, USA, 23-26 November 2019.
- Qiu, X., Tan, S. P., **Dejam, M.** and Adidharma, H.: Experimental Study on the Phase Behavior of Fluids Confined in Nanoporous Media, **72nd Annual Meeting of the APS (American Physical Society) Division of Fluid Dynamics**, Seattle, Washington, USA, 23-26 November 2019.
- Olayiwola, S. O. and **Dejam, M.**: Surface Tension of Nanoparticles in Electrolyte Solutions, **71st Annual Meeting of the APS (American Physical Society) Division of Fluid Dynamics**, Atlanta, Georgia, USA, 18-20 November 2018.
- Kou, Z. and **Dejam, M.**: A Mathematical Model for a Hydraulically Fractured Well in a Coal Seam Reservoir by Considering Desorption, Viscous Flow, and Diffusion, **71st Annual Meeting of the APS (American Physical Society) Division of Fluid Dynamics**, Atlanta, Georgia, USA, 18-20 November 2018.
- Wei, M., Duan, Y., Chen, Q. and **Dejam, M.**: Production Decline Behavior Analysis of a Vertical Well with Natural Water Influx/Waterflood, **InterPore 10th Annual Meeting and Jubilee Conference**, New Orleans, Louisiana, USA, 14-17 May 2018.
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z.: Pre-Darcy Flow in Tight and Shale Formations, **70th Annual Meeting of the APS (American Physical Society) Division of Fluid Dynamics**, Denver, Colorado, USA, 19-21 November 2017.
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z.: Dispersion in Combined Pressure-Driven/Electro-Osmotic Flows in Double-Porosity Systems, **American Institute of Chemical Engineers Annual Meeting**, Salt Lake City, Utah, USA, 8-13 November 2015.
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z.: Dispersion of a Chemical Species in a Coupled Fracture-Matrix System, **65th Canadian Chemical Engineering Conference**, Calgary, Alberta, Canada, 4-7 October 2015.
- **Dejam, M.**, Hassanzadeh, H. and Chen, Z.: Shape of Liquid Bridges in a Horizontal Fracture, **1st International Conference on Fluid Flow, Heat and Mass Transfer**, Ottawa, Ontario, Canada, 1-2 May 2014.
- Mashayekhizadeh, V., **Dejam, M.**, Kharrat, R., Ghazanfari, M. H. and Vossoughi, S.: Application of Numerical Laplace Inversion Methods for Predicting Reinfiltration Rate in Fractured Porous Media: A Comparative Study, **Third International Conference on Porous Media and its Application in Science, Engineering and Industry**, Montecatini, Italy, 20-25 June 2010.