

Publications

Patent

- Adidharma, H., Tan, S. P., **Dejam, M.** and Qiu, X.: Methods and Systems for Isochoric Measurements Using Differential Scanning Calorimetry, **United States Patent US2023/0085535A1 (Application Number: 17/987,406)**, 2023. URL: <https://patentcenter.uspto.gov/applications/17987406>

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

- **Dejam, M.** (2025), Modeling tracer dispersion in a coupled system composed of a proppant-packed hydraulic fracture and a tight porous medium. **Advances in Water Resources**, 206: 105122. DOI: [10.1016/j.advwatres.2025.105122](#)
- Nwankwo, I. V., **Dejam, M.** and Quillinan, S. A. (2025), A critical review of experimental and theoretical studies on shale geomechanical and deformation properties, fluid flow behavior, and coupled flow and geomechanics effects during production. **International Journal of Coal Geology**, 306: 104777. DOI: [10.1016/j.coal.2025.104777](#)
- Nwankwo, I. V., **Dejam, M.**, Fischer, T. B. and Quillinan, S. A. (2025), A comprehensive review on analysis of permeability measurements and surfactant enhanced oil recovery in shale. **Physics of Fluids**, 37(7): 071305. DOI: [10.1063/5.0272106](#)
- Owusu-Banahene, E. K., Yang, H., **Dejam, M.** and Adidharma, H. (2025), Capillary condensation measurements in multimodal nanoporous media and pore critical point determination: Methane/propane mixture. **Langmuir**, 41(16): 10152-10160. DOI: [10.1021/acs.langmuir.4c05014](#)
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- **Dejam, M.** and Hassanzadeh, H. (2023), Thermal dispersion in a fracture-matrix system with application to geothermal energy extraction. **Water Resources Research**, 59(9): e2023WR034715. DOI: [10.1029/2023WR034715](#)
- **Dejam, M.** and Hassanzadeh, H. (2023), Advection and dispersion induced by an interface between two immiscible fluids in a laminar flow. **American Institute of Chemical Engineers Journal**, 69(1): e17928. DOI: [10.1002/aic.17928](#)

- Brown, N. M. and **Dejam, M.** (2023), Tracer dispersion due to non-Newtonian fluid flows in hydraulic fractures with different geometries and porous walls. *Journal of Hydrology*, 622(B): 129644. DOI: [10.1016/j.jhydrol.2023.129644](https://doi.org/10.1016/j.jhydrol.2023.129644)
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