

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

- 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](#)
- **Dejam, M.** and Hassanzadeh, H. (2024), Dispersion in a slit with crossflow filtration through a porous wall. **Physics of Fluids**, 36(9): 092001. DOI: [10.1063/5.0226175](#)
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- Chen, F., Wang, S., **Dejam, M.** and Nasrabadi, H. (2024), Molecular simulation of competitive adsorption of hydrogen and methane: Analysis of hydrogen storage feasibility in depleted shale gas reservoirs. **Society of Petroleum Engineers Journal**, 29(6): 3412-3422. DOI: [10.2118/212218-PA](#)
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- **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](#)

- Dordzie, G. and **Dejam, M.** (2023), Implementation of surfactant for alternating injection with low salinity water and γ -alumina nanoparticles in fractured carbonate reservoirs: An experimental study. **Energy & Fuels**, 37(17): 12865-12878. DOI: [10.1021/acs.energyfuels.3c02212](https://doi.org/10.1021/acs.energyfuels.3c02212)
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