

Accepted Manuscript

A data driven model for the impact of IFT and density variations on CO₂ storage capacity in geologic formations

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PII: S0309-1708(17)30096-9
DOI: [10.1016/j.advwatres.2017.06.015](https://doi.org/10.1016/j.advwatres.2017.06.015)
Reference: ADWR 2875



To appear in: *Advances in Water Resources*

Received date: 30 January 2017
Revised date: 14 June 2017
Accepted date: 15 June 2017

Please cite this article as: Mohammad A. Nomeli, Amir Riaz, A data driven model for the impact of IFT and density variations on CO₂ storage capacity in geologic formations, *Advances in Water Resources* (2017), doi: [10.1016/j.advwatres.2017.06.015](https://doi.org/10.1016/j.advwatres.2017.06.015)

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Highlights

- A novel model is proposed to find the interfacial tension of the systems (CO₂/brine-salt)
- Multiparameters nonlinear regression method is employed to find the correlations
- The IFT showed a strong dependence on temperature, pressure, and salinity
- The results indicate that, CO₂ storage capacity increases with reservoir depth

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