

Special Issue

Gas Diffusivity in Reservoir-Fluid Systems

Message from the Guest Editors

The focus of this special issue will be on multicomponent systems and considering the multi-scale multi-physics aspects of the problems. Thus, the topics include but are not limited to:

- Application of diffusivity for subsurface processes and implications
 - Recovery processes
 - Pressure history
 - CO₂ sequestration
 - Gas storage
- Experimental processes
 - Parameter estimation
 - Experimental data and methodologies
 - CO₂ and reactive transport
- Porous material design
 - Gas or liquid permeation or penetration in porous materials
 - Treatment of porous materials (increase/decrease the permeation)
 - Adsorption, phase behavior and diffusive transport in unconventional
- Mathematics of diffusion in application to subsurface engineering
 - Natural gases and oils
 - CO₂ dissolution – CO₂ propagation

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Deadline for manuscript submissions

closed (15 May 2024)



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