

## Special Issue

# Petrophysics and Geochemistry of Unconventional Reservoirs

### Message from the Guest Editor

Unconventional reservoirs are discovered in all hydrocarbon basins around the world. Unconventional kerogen rich reservoirs exhibit high heterogeneity in a wide range of scales while their many physical properties are typically highly anisotropic. Comprehensive petrophysical and geochemical studies are of particular importance in the analysis of petroleum generation and maturation processes in unconventional plays. Multivariate study of kerogen rich rocks is essential for development and optimization of production technologies, including hydraulic fracturing and various methods of enhanced hydrocarbon recovery. Consequently, multidisciplinary approaches in evaluation of unconventional formations are an essential part of successful exploration and development projects.

The Special Issue aims to reflect new ideas, concepts, and methods in research related to petrophysics, lithology, and geochemistry of unconventional formations, including but not limited to collector properties, mechanical and thermal properties, molecular and isotope composition of organic matter, as well as mechanisms of rock and organic matter transformations under the effect of temperature and pressure.

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### Guest Editor

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### Deadline for manuscript submissions

closed (1 May 2021)



## Geosciences

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## About the Journal

### Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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### Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,  
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