



## Advances in Oil and Gas Migration and Accumulation

Guest Editors:

**Prof. Dr. Jianhui Zeng**

**Prof. Dr. Dongxia Chen**

**Dr. Jianhua Zhao**

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### Message from the Guest Editors

The characteristics and mechanisms of hydrocarbon migration and accumulation have attracted more and more attention, whether in conventional or unconventional reservoirs. The migration and accumulation of hydrocarbons is a dynamic equilibrium process. When the charging dynamics are greater than the resistance, hydrocarbon migration occurs; when the charging dynamics are less than the resistance, hydrocarbon accumulation occurs. Hydrocarbon migration often undergoes complex geological processes and is controlled by many factors. Such geological–historical processes occurring in the subsurface cannot be directly observed, and even residual traces are difficult to obtain, making it one of the weakest research aspects in petroleum geology. Therefore, accurate characterization and understanding of the migration and accumulation mechanisms of hydrocarbons at different scales (pore-, core-, sand-, basin-scale) are challenging and of grand importance.





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## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

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*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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