Special Issue

Advances in Oil and Gas Migration and Accumulation

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.

Guest Editors

Prof. Dr. Jianhui Zeng

Prof. Dr. Dongxia Chen

Dr. Jianhua Zhao

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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