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Analysis and Modelling of Petroleum System

Guest Editors:

Dr. Dariusz Botor

Faculty of Geology Geophysics and Environmental Protection, AGH University of Science and Technology, al. Mickiewicza 30, 30-059 Krakow, Poland

Prof. Dr. Paweł Kosakowski

Faculty of Geology Geophysics and Environmental Protection, AGH University of Science and Technology, al. Mickiewicza 30, 30-059 Krakow, Poland

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Message from the Guest Editors

Analysis and modeling of petroleum systems are modern tools of petroleum exploration that allows to increase energy resources. The petroleum system is a concept that encompasses all elements and processes of petroleum geology leading to finding of new deposits. Practical application of an idea of petroleum systems can be used in exploration, resource evaluation, and pure research. A petroleum system includes all the geologic elements and processes that are essential if an oil and gas accumulation is to exist. Such systems describes the interdependent elements and processes that form the functional unit that creates hydrocarbon accumulations. The essential elements of a petroleum system include: source rock; reservoir rock; seal rock; overburden rock. Petroleum systems have two major processes: trap formation and generation-migration-accumulation of hydrocarbons. These essential elements and processes must be correctly placed in time and space so that organic matter included in a source rock can be converted into a petroleum accumulation. In this Special Issue we would like to provide new insight into petroleum systems in different geological setting



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Special Issue



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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

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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