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Heavy Oils Conversion Processes

Guest Editors:

Dr. Galina P. Kayukova
Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center, Russian Academy of Sciences, 8 Akademika Arbuzova, 420088 Kazan, Russia

Dr. Alexey V. Vakhin
Institute of Geology and Petroleum Technologies, Kazan Federal University, 18 Kremlyovskaya St., P.O. Box 420008, Kazan, Russia

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Message from the Guest Editors

Thermal enhanced oil recovery methods are attracting wide interest for exploitation in heavy oil deposits. It is common knowledge that the exploitation of such oils is associated with various physical and chemical processes depending mainly on the chemical conversion of resins and asphaltenes. However, resins and asphaltene destruction generally results in reduced oil viscosity and its increased mobility through the porous medium of reservoir rock. Moreover, some rock components may catalyze the processes that result in asphaltene and resin destruction. For this reason, many studies have been performed on the impact of different catalysts and reagents on intensifying resin and asphaltene destruction on oil composition, and showed an increase in the content of light saturated and aromatic hydrocarbons. In addition, the role of hydrogen donors in ensuring conversion is important, though more work is needed to address the effect of plate salts and pH on the conversion of asphaltenes and the functioning of catalysts embedded in the formation.

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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