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Development of Selective Tools for the Analysis of Heavy Crude Oil Components

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Message from the Guest Editors

Dear Colleagues,

Fossil materials have accompanied us for several thousand years. They have served as feedstock for a wide range of chemical compounds and – mostly – as a source of energy for heating, lighting and transportation. Today, crude oils are the dominating resource for transportation fuels and other products, with heavy crudes, including oil sands, gaining more and more importance. Despite the long-lasting utilization and the vast amount of knowledge gained in the past years, in many cases made possible through instrumental developments, crude oils and other fossil materials such as coal still exhibit large white spots when it comes to the molecular details: What compounds are actually present? Which ones are responsible for problems such as instability? How can these be removed, altered or their adverse effects be reduced? What happens during unwanted process reactions when feedstocks are upgraded? Is it possible to understand such effects when using modern and sophisticated analytical methods?...

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Special Issue



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Message from the Editor-in-Chief

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