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Synthetic Fuels

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Message from the Guest Editors

Synthetic fuels are both energy and material carriers that enable a higher flexibility in the management of natural resources. Synthetic fuels can be produced from fossil (e.g., coal) and renewable resources, such as biomass (e.g., phytomass and zoomass, municipal waste), direct solar radiation and intermittent renewable power sources (e.g., wind farm, solar farm) through power-to-gas and power-to-liquids applications. Overall, synthetic fuels are obtained through photochemical/photobiological, thermochemical, and electrochemical conversion processes.

The present Special Issue covers recent research and trends in synthetic fuels production, distribution and utilization. Especially, the Special Issue covers the analysis of promising energy pathways for fuel synthesis from both fossil and renewable resources. In addition, innovative reactor designs, application of novel catalysts, as well as new process concepts are of interest. Further studies for synthetic fuels distribution and utilization are also highly desirable.

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Message from the Editor-in-Chief

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