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Advanced Catalysis in Hydrogen Production from Formic Acid and Methanol

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Message from the Guest Editor

Dear colleagues,

Formic acid and methanol contain a sufficient amount of hydrogen that can be liberated at mild conditions using catalysis. Formic acid and methanol are considered as liquid organic hydrogen carriers (LOHCs) and can be produced using renewable methods from biomass or by CO₂ hydrogenation. Therefore, the studies in this field recently have become focused on the development of efficient catalysts for hydrogen production from these compounds.

The aim of this Special Issue is to discuss the field of hydrogen production by the catalytic decomposition (or steam-reforming) of formic acid and methanol. The questions of preparation and characterization of efficient homogeneous or heterogeneous catalysts, reaction mechanism and kinetics, reactor systems engineering, and catalyst design could be discussed in this issue. We invite researchers to submit their theoretical and/or experimental original results.



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Special Issue



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Message from the Editor-in-Chief

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