

Special Issue

Catalysis for Energy – Efficient Production and Conversion of Solar and Synthetic Fuels

Message from the Guest Editor

Fuels provide the required energy for all the activities of human beings, in particular industrial activities, so that the production, conversion and consumption of the energy are vital for those purposes. The method and efficiency of energy utilities indicate the degree of civilization and modernization. How to raise the efficiency for the energy production and conversion is always the focus for both academic and industrial sectors. In addition, global climate change puts huge pressure on the reduced consumption of fossil fuels in order to curb CO₂ emissions, where new energy technologies are requested to produce fuel in an efficient and sustainable manner. In this Special Issue, research articles, short reviews and communications that cover the catalyzed production and conversion of the solar and synthetic fuels driven by photo irradiation, electricity power and chemical potential, etc. are kindly considered and the corresponding synthesis and characterization of the materials, i.e., catalysts and the catalysis mechanism are also preferred.

Guest Editor

Dr. Lan Chen

National Center for Nanoscience and Technology, Beijing, China

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Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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