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Hydrogen and Syngas Generation

Guest Editors:

Prof. Dr. Vladislav A. Sadykov

Prof. Dr. Vassilis Stathopoulos

Prof. Dr. Christos Argirusis

Deadline for manuscript submissions:
closed (23 July 2021)

Message from the Guest Editors

Dear Colleagues,

The Guest Editors are inviting submissions to a Special Issue of *Energies*, titled "Hydrogen and Syngas Generation". These topics are related to vital hydrogen and renewable energy fields including catalytic transformation of biogas/biofuels into syngas and hydrogen on structured catalysts for feeding fuel cells and synfuels production and hydrogen and syngas generation in catalytic reactors equipped with hydrogen/oxygen separation membranes or in solid oxide electrolysers.

This Special Issue will deal with novel approaches to designing efficient catalysts of these processes and their operation optimization via elucidation of atomic-scale features of reaction mechanism; synthesis of nanocomposite active components by new methods and detailed characterization of their real structure, surface properties, and reactivity; and mathematical modeling of real device performance, taking into account heat and mass transfer processes.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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