

Special Issue

Exploring Catalytic Potentials for Methane Oxidation and Conversion

Message from the Guest Editor

We are pleased to invite you to submit your recent research to this Special Issue, entitled “Exploring Catalytic Potentials for Methane Oxidation and Conversion”. This Special Issue aims to collate the most recent and forward-looking concepts focusing on catalytic conversion of methane into more valuable products. Invited research efforts may focus on design and synthesis, characterization, efficiency, and deactivation of novel materials, as well as new pioneering concepts of catalytic process. In this Special Issue, original research articles and reviews are welcome to be submitted. Research areas may include, but are not limited to, the following: 1. Oxidative coupling of methane, converting methane into C₂ hydrocarbons; 2. Direct non-oxidative methane conversion, converting methane into C₂ hydrocarbons; 3. Dry reforming of methane reacting with carbon dioxide to produce syngas; 4. Catalytic methane cracking/pyrolysis to produce CO₂-free hydrogen and carbon nanomaterials; 5. Catalytic methane combustion/oxidation of unburned methane in the exhaust of CH₄-powered facilities.

Guest Editor

Dr. Eleni Iliopoulou

Laboratory of Environmental Fuels and Hydrocarbons (LEFH), Chemical Process and Energy Resources Institute (CPERI), Centre for Research & Technology Hellas (CERTH), Thessaloniki, Thessaloniki, Greece

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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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Prof. Dr. Keith Hohn
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