

Special Issue

Catalysts in Energy Applications

Message from the Guest Editor

Most of energy related systems are dependent on catalytic processes. Catalysis is essential for all stages of the energy life cycle, from the production of fuels, to consumer applications, to waste management. Catalysis is the key to a wide range of energy-related processes, starting from the production of the traditional fossil fuels and ending with the emerging areas of sustainable energy, such as hydrogen fuel and solar light-harvesting in artificial photosynthesis. The main focus of this Special Issue on “Catalysts in Energy Applications” will be on chemical, electrochemical and photochemical catalytic processes, developed to address the energy-related challenges. Original research papers and short reviews are welcome especially (but not exclusively) in the following areas:

- Fuel cells and batteries
- Water splitting -Solar energy conversion and artificial photosynthesis
- Electrocatalytic processes
- Conversion of carbon dioxide
- Fossil fuels and pollution control

Guest Editor

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JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).