



Catalysts in Energy Applications II

Guest Editors:

Prof. Dr. Oleg Vladislavovich Levin

Institute of Chemistry, Saint
Petersburg State University, 7/9
Universitetskaya Embankment,
199034 Saint Petersburg, Russia

Dr. Daniil A. Lukyanov

Institute of Chemistry, St.
Petersburg State University,
199034 St. Petersburg, Russia

Dr. Elena Alekseeva

Institute of Chemistry, Saint
Petersburg State University,
University Embankment, 7/9,
199034 St. Petersburg, Russia

Message from the Guest Editors

This is the second edition of the Special Issue titled “Catalysts in Energy Applications”. Most 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 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.

Deadline for manuscript
submissions:

closed (20 March 2023)

