

Special Issue

Catalytic Energy Storage and Water Splitting

Message from the Guest Editors

The aim of this Special Issue is to cover promising, recent, and novel research trends in the synthesis of functional materials with unique nano and microstructure structures to solve key issues in electrochemical energy storage and water splitting. Submissions to this Special Issue may cover themes including, but not limited, to:

- The precise design, synthesis, and characterization of novel low-cost electrocatalysis
- Fabrication of functional materials derived from MOFs; LDHs, such as nanostructured metal oxides, chalcogenides, nitrides, carbides, and phosphides and their nanocomposites; porous carbon frameworks; and/or single-atom electrocatalysts
- Exploration of advanced core-shell, MOFs, polymers, and metal oxides/chalcogenides/nitrides/carbides/phosphides nanostructures for energy storage systems, such as supercapacitors, rechargeable Li⁺/Na⁺/K⁺/Mg²⁺/Zn²⁺ ion batteries, Li-S batteries, and metal-air batteries and electrocatalysis, such as hydrogen reduction/evolution reactions, oxygen reduction/evolution reactions, and overall water splitting.

Guest Editors

Dr. Hadi Hosseini

Department of Chemistry, Sharif University of Technology, Tehran, Iran

Dr. Ram K. Gupta

Department of Chemistry, National Institute for Materials Advancement, Pittsburg State University, Pittsburg, KS 66762, USA

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Keith Hohn
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