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New Electrochemical Energy Storage Materials

Guest Editors:

Dr. Zaivuan Le

Dr. Xianyang Li

Dr. Pengcheng Xu

Dr. Wenyue Shi

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Message from the Guest Editors

Dear Colleagues,

The field of electrochemical energy storage, encompassing batteries, has witnessed remarkable progress and growth over recent years due to advancements in materials, design, and production techniques. This progress has resulted in greater energy density, longer battery life, and faster charging capabilities. Despite this success, the industry still faces numerous challenges that need to be overcome.

New materials are being developed to achieve these goals, including lithium–sulfur batteries, lithium-ion batteries, fuel cells, sodium-ion batteries, solid-state batteries, metal–air batteries, and supercapacitors with improved electrodes and electrolytes. Research can be approached through various methods and techniques, including material synthesis and characterization, device fabrication, testing and analytics, modeling and simulation.

This Special Issue aims to create advances the in research and development of new electrochemical energy storage materials. Topics include, but are not limited to, synthesis, characterization, analysis, simulation and application from a perspective of electrochemistry and beyond.













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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Message from the Editor-in-Chief

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