Special Issue

New Electrochemical Energy Storage Materials

Message from the Guest Editors

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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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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