



Materials for Residential Electrochemical Energy Storage Systems

Guest Editor:

Dr. Jean François Drillet
DECHEMA Forschungsinstitut,
Frankfurt am Main, Germany

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Message from the Guest Editor

Demand for electrochemical storage and conversion devices for transportation, residential applications, powered tools, and consumer electronics has been strongly stimulated by the inexorable growth of the Earth's population and number of applications as well as the depletion of fossil fuel reserves. In that context, the design of future electrochemical storage and conversion systems should consider numerous criteria, such as the energy efficiency, long-term stability, raw material scarcity, cell chemistry, safety, and recycling potential.

Especially in the field of decentral solar energy economy, high cycling stability, affordability, and safety aspects of the storage system are of great importance. In that context, this Special Issue welcomes any original or review contribution related to the use of advanced materials for established (Pb-acid, NiMH, Li-LFP and Na/NiCl₂) as well as emergent (metal/air, metal-ion, redox-flow) batteries for residential applications.





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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