Special Issue

A Themed Issue in Honor of Professor Michel Armand on the Occasion of His 75th Birthday

Message from the Guest Editors

This Special Issue is to celebrate the outstanding career of one of the most world-renowned experts in electrochemistry, Dr Michel Armand, on the occasion of his 75th anniversary. He is the father of many advances that led to the development of lithium-ion batteries, now considered a solution to switch from oil to green energy and limit global warning. Armand is at the origin of the concept: in the 1970s, Armand proposed the fabrication of a battery based on two different intercalation materials for both cathodes and anodes; this battery was named the rocking-chair battery (later the lithium-ion battery) due to the shuttle of ions from one electrode to another during the charge–discharge process. Then, he made major contributions to the three components of the batteries: the two electrodes and the electrolyte. Contributions will outline recent developments related to the chemistries of lithium-ion and sodium-ion batteries, including cathode and anode materials, organic electrodes, solid-state electrolytes, solid polymers, and solvent-in-salt electrolytes and other chemistries, such as Li-S and Li-air batteries.

Guest Editors

Prof. Dr. Christian M. Julien

Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie (IMPMC), Sorbonne Université, CNRS-UMR 7590, 4 Place Jussieu, 75252 Paris, France

Prof. Dr. Alain Mauger

Inst Mineral Phys Mat & Cosmochim IMPMC, CNRS, Sorbonne University, UMR 7590, 4 Pl Jussieu, F-75252 Paris, France

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inorganics@mdpi.com

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Prof. Dr. Duncan H. Gregory
School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

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