Special Issue

Electrochemistry of Lead-Acid Batteries

Message from the Guest Editor

Lead-acid batteries have been widely used as secondary sources of energy for many years. Their reliability is due to several characteristics such as high specific energy, high-rate fast-charge, low-cost manufacturing and recycling, life cycle durability, and high discharge rates. In spite of their long history, the performances of lead-acid batteries are being continuously improved by employing various changes. The optimization of the electrodes' design is mainly conceived towards obtaining the optimal current distribution in the electrodes.

Within all these innovative developments, the LAB industry is still hardly challenged about its future, and there is a strong demand for innovations capable to deal with novel alternative storage technologies. As such, this Special Issue addresses the progress in battery and energy storage development using distinguished fabrication features of electrode grids, electrolyte additives, or oxide paste additives embodiment. New state-of-the-art materials and technological procedures are pursued in order to further improve parameters such as energy density, capacity, cycle life, high-rate discharge performance.

Guest Editor

Dr. Adrian Calborean
National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania

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

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Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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