

From Volta to Today's Li-ion Batteries

Abstract

This presentation will briefly retrace the origin of the batteries and their evolution that have led to the development of the Li-ion technology and its commercialization in 1990. It will then describe today's battery technologies touching on the various electrodes and electrolytes to end with recent advances dealing either with the development of sustainable and greener Li-ion batteries with emphasis on novel eco-efficient synthesis processes of electrode materials, or with novel redox mechanisms in oxides.