Special Issue

Cathode Materials for Rechargeable Batteries

Message from the Guest Editor

With the expansion of the electric vehicle (EV) market, industries are demanding higher-energy-density and lower-cost lithium-ion batteries (LIBs). Since the cathode is the largest component in LIBs in terms of weight and cost, it is believed that the main bottleneck in attaining high energy densities lies in cathode chemistry. In particular, nickel-based layered oxides, the cathode material of choice for current EV batteries, suffer from the price volatility associated with cobalt and nickel. In this regard, tremendous research efforts are ongoing to improve the electrochemical performance of cathodes while reducing their dependency on geopolitically sensitive chemical elements. In this Special Issue of *Batteries*, we are inviting articles focused on the development of cathode materials for rechargeable batteries. Topics of interest include, but are not limited to, discovery of new cathode materials, chemical/structural optimization of cathode materials, degradation mechanism analysis, and development of next-generation cathodes. Original research articles and reviews involving synthesis, characterization, fabrication, and applications are welcome.

Guest Editor

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