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# Advanced Materials for Lithium Ion Batteries

Guest Editor:

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Deadline for manuscript submissions:
**closed (30 November 2012)**

## Message from the Guest Editor

Dear Colleagues,

Improvements in the performance of lithium ion batteries are needed to meet the energy storage requirements for electrical vehicles, portable electronics and other applications. These performance improvements depend on the development of new and advanced materials. Needed improvements include electrode materials with increased capacity, extended voltage range and long lifetime (e.g., cyclability) as well as electrolyte materials with high conductivity and stability. The performance of battery materials depends critically on their microstructures, which requires the development of materials processing techniques to obtain the desired microstructures and morphologies. This special issue will focus on materials and processes for obtaining lithium ion battery anodes, cathodes and electrolytes that meet the increasing performance demands in mobile energy storage.

Prof. Dr. Jeffrey W. Fergus
*Guest Editor*

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