Special Issue

Cathode Materials for Lithium-Ion Batteries

Message from the Guest Editor

The rapidly growing demand for rechargeable batteries requires high-energy cathode materials, which should ideally be safe, low-cost, and environmentally benign. Lithium-ion batteries are commonly considered as the most promising battery technology due to their favorable mix of properties. Positive active materials, such as layered oxides, spinel oxides or polyolefin-type cathodes, have a strong impact on battery properties. In this Special Issue, we welcome review articles and original research papers focusing on recent progress and developments in cathode materials for lithium-ion batteries. Potential topics include, but are not limited to:

- Intercalation-, insertion- and conversion-type cathode materials
- Ni-rich layered oxides
- Lithium-excess cathode oxides
- Anionic redox chemistry of cathode materials
- High-voltage cathode materials
- Cobalt-free cathode materials
- Polyanionic cathode materials
- Spinel-type cathode materials
- Organic cathode materials
- Spinel-type cathode materials
- Material synthesis, optimization and characterization
- Degradation of cathode materials

Guest Editor

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closed (20 February 2019)

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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