



Cathode Materials for Lithium-Ion Batteries

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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



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Dr. Richard Schmuch
Guest Editor

Special Issue



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Message from the Editor-in-Chief

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