

Special Issue

Advanced Materials and Technologies for Lithium-Ion Battery

Message from the Guest Editors

With the advances in four key components (electrode materials, electrolyte and separator and binder) for lithium ion battery (LIB) technology, LIB has become the dominating choice of energy storage devices for mobile electronics, many electrified vehicles, energy storage system (ESS) and etc. LIB market is expected to grow faster and larger than ever before in near future in line with environmental-friendly economic growth worldwide. Hence, there is growing interests in enhancing the energy density, safety, life time and reliability of LIBs, which strongly requires innovative basic research and development for advanced materials and technologies. This Special Issue is focused on to bring together the innovative ideas and key material science for advanced LIB technology of future. Potential topics include, but are not limited to:

- Advanced anode and cathode materials; New electrolyte, binder and separator technologies; Full LIB cell design, engineering and diagnosis; Advanced electrochemical analysis and mechanism studies

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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