



Electrode Materials: Fabrication, Properties, and Applications

Guest Editor:

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Message from the Guest Editor

The success of the energy transition will depend on our capacity to produce, transport, consume, and store energy reliably on a large scale and at a low cost. Electrode materials play an important role in the development of renewable energies. Rechargeable batteries are the most appropriate and promising systems. Nowadays, Li-ion batteries (LIBs) dominate the global market for energy storage devices and are used in a variety of applications from portable electronic devices to electrical grid storage and electric vehicles. However, its specific capacity and energy density seem to reach their limits and will be insufficient for the long-term needs of our society. New insertion or conversion materials for electrodes need to be synthesized, in order to provide high energy or high power, sufficient autonomy and low ageing.

The present Special Issue is focused on electrode materials preparation and characterization for rechargeable batteries (including lithium-ion, metal-ion and all-solid-state batteries) but can be extended to supercapacitor electrodes.

We kindly invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.





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Message from the Editor-in-Chief

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