Special Issue on

Novel Architectures of Functional Materials for Energy Storage and Conversion

CALL FOR PAPERS

More and more attentions have been focusing on clean energy issues for improving worldwide environment and exploring sustainable energy that has attracted great interests in research and applications of new energy. Advanced devices provide important routes to solve the above concerns in energy storage and conversion. Functional materials often play the key role in high-efficient electrodes of advanced devices including rechargeable batteries, supercapacitors, fuel cells, and electrochemical catalysis devices. Their novel architectures provide some unique performances including conductivity, catalytic activity, and surprising capacities. In recent years, research on architecture of inorganic/organic based functional materials has become the most important components of advanced device for energy storage and conversion.

We invite researchers and scientists to contribute original research articles and review articles that focus on novel functional materials relating to inorganic electrode materials, organic functional polymers, and novel inorganic-organic hybrid materials for energy storage and conversion.

Potential topics include but are not limited to the following:

- ▶ Novel architectures of carbon based materials
- ▶ Novel architectures of polymer based materials
- ▶ Novel architectures of hybrid based materials
- ▶ Advanced electrode materials for lithium ion batteries
- ▶ Advanced electrode materials for lithium-air batteries
- ▶ Advanced electrode materials for lithium-sulfur batteries
- ▶ Advanced electrode materials for fuel cells
- ▶ Advanced electrode materials for electrochemical catalysis

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