

Tentative Outline

Special Issue for “Current Analytical Chemistry” (Metal-based Composite Nanomaterials Employed in Energy Storage Performance)

Guest Editor: Dr. Jerry J. Wu

Aims & Scope:

The metal-based nanomaterials have received enormous attention in the applications field. Especially, many studies have focused on the fabrication of nanocomposite for an electrochemically enhanced energy storage performance. Energy storage appliances are extremely active by means of accompanying components for renewable energy resources that play a significant role in the advanced world. Supercapacitors are known as the green energy storage devices producing high performances and majorly depend upon the electrolyte. Therefore, the electrochemical performance of the supercapacitors can be enhanced by optimizing the key parameters, such as electrode material, activation agent, potential window, type and molar concentration of the electrolyte. The choice of electrolyte is an important parameter to achieve high-performance energy storage devices for future technological applications of energy storage device.

Keywords: energy storage, supercapacitor, aqueous electrolytes, and potential window

Subtopics:

The subtopics to be covered within this issue are listed below:

- Enhanced energy storage by optimizing electrode nanostructure
- Optimization of energy storage performances by aqueous electrolytes
- Metal based electrode nanomaterials for electrochemical energy storage performances.

Schedule:

- ✧ Manuscript submission deadline: 1 April 2021
- ✧ Peer Review Due: 1 July 2021
- ✧ Revision Due: 30 September 2021
- ✧ Announcement of acceptance by the Guest Editors: 15 October 2021
- ✧ Final manuscripts due: 1 November 2021

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