

Special Issue on
**Electrochemical Synthesis: Recent Advances in Designs
and Applications**

CALL FOR PAPERS

In recent years, several strategies are used to address the energy crisis. The development of nanostructured materials is considered as one of the key components. Therefore, design and fabrication of highly active materials in nanoscale dimension have become a recent thrust area of research due to their wide potential applications in energy conversion and storage applications. Engineering the shape and morphology of active materials represents an important parameter for improving their performance. Electrochemical synthesis represents a highly efficient method for the fabrication of various nanostructures, such as nanowires, nanorods, nanotubes, nanosheets, dendritic nanostructures, and composite nanostructures, which can be easily fabricated with advantages of low cost, low synthetic temperature, high purity, simplicity, and environmental friendliness. The electrochemical synthesis of hierarchical nanostructures is attracting great attention in the energy conversion and storage device.

In this special issue, we invite authors to contribute original research articles and review papers that will stimulate a wide discussion and continuous efforts on the design and development of hierarchical nanostructured materials through electrochemical synthesis for energy conversion and storage. We are equally interested in articles contributed by the scientists and the engineering staffs. However, those who provide sufficient novelty and generality to trigger a potentially broad readership will be given priority.

Potential topics include but are not limited to the following:

- ▶ Electrochemical synthesis of nanostructured materials, such as metal, metal oxide, conducting polymer, and carbon-based nanocomposite
- ▶ All subjects relating to applications of electrochemical synthesis materials in the supercapacitors, lithium ion battery, fuel cells, and solar cell areas

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ijelc/esap/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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