Special Issue

Electrochemical Analysis of Functional Materials

Message from the Guest Editor

Electrochemical processes exist widely in various fields, such as nature, industry and manufacturing, energy applications, food quantification, environment monitoring and medical research. Potential topics include but are not limited to:

Functional materials for energy storage and conversion: research on the conversion efficiency, stability, energy density, power density, cost and safety of electrochemical related applications in energy sources.

Nanomaterials for electrochemical devices: graphene, carbon nanotubes, fullerenes and metallic nanomaterials are widely used in finer areas. Research on the design, structures, properties, manufacturing and applications of nano-electrochemical materials and devices.

Materials corrosion and testing: research on corrosion rate, corrosion mechanism, corrosion-resistant coatings, corrosion inhibitors and material corrosion in specific environments.

Materials for electrochemical sensing: research on Electrochemical sensors and biosensors in different fields.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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