Special Issue

Electrochemical Applications of Carbon-Based Nanomaterials

Message from the Guest Editors

This Special Issue will focus on electrochemical applications of carbon nanomaterials of the graphene type and aims to provide information regarding electrochemical applications of carbon-based nanomaterials in the field of supercapacitors, rechargeable batteries, fuel cells, (bio)sensors, and anticorrosion protection. Potential topics include but are not limited to:

- Electrode materials in energy storage
- Performances of carbon nanomaterials in symmetrical and asymmetrical supercapacitors
- New progresses in lithium, sodium, or potassium ion batteries
- Carbon nanostructures for Li–S batteries
- Current progress of carbon nanomaterials for fuel cells
- Carbon nanomaterials as selective electrochemical (bio)sensors
- Composite coatings as corrosion resistance layers
- Corrosion of electrodes in carbon nanomaterials-based nanofluids
- Oxidation/reduction reactions at the electrode/electrolyte interface
- Chemical sensing, biosensing, nanomedicine, photocatalysis, and electrocatalysis
- Applications of carbon quantum dots in emerging quantum technologies

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2021)

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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