

Special Issue

Electrogravimetric and Electrochemical Studies on New Nanostructured Materials

Message from the Guest Editor

The design of novel electrodes with suitable properties relies on the understanding of their fundamental properties at the nanoscale, including the comprehension of ions' insertion/electroadsorption at the electrode/electrolyte interfaces and their interactions with the active material. To elucidate these phenomena, coupled analytical methods that combine electrochemical analysis with simultaneous mass variation measurements (electrochemical quartz crystal microbalance, EQCM) have been actively employed in the study of nanostructured electrode materials. This Special Issue will attempt to cover the most recent advances in the EQCM-based studies of a wide range of nanostructured electrode materials (metal oxides, carbons, conducting polymers, and their composites) that are promising for a vast range of electrochemical applications.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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