

## Special Issue

# Surface and Electrochemical Characterization of Nanomaterials

### Message from the Guest Editors

In the last couple of decades, we have witnessed an improvement in multifunctional applications of nanomaterials. The nature of various applications has given birth to nanoscience and nanotechnology, integrating fundamental and applied scientific research from a range of fields, such as medicine, biology, chemistry, physics, etc. Nanomaterial primary research and technological applications pave the way for emerging research in various disciplines involving and recognizing the nature of precise and improved outcomes at the nanoscale. Today, surface and electrochemical characterization methods involve the addressal of the dynamic nature of a nanomaterial's surface chemistry and other properties impacting its interaction with different materials, as well as exploring its behavior in the surrounding environment. Advanced electrochemical and surface characterization tools can address challenging issues associated with nanomaterials. The Special Issue aims to cover topics ranging from quantum effects to fluorescence, electrocatalysis to energy harvesting, corrosion to gas evolution, self-healing, and electromagnetic shielding to electro-thermal conductivity.

### Guest Editors

Dr. Edward Song

Dr. Gaurab Dutta

Dr. Erica Perry Murray

### Deadline for manuscript submissions

closed (20 January 2023)



## Materials

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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