

Special Issue

Surface Analysis Techniques for the Study of Advanced Nanostructures

Message from the Guest Editor

In the last decade, we have witnessed an exponential increase in the level of complexity of nanomaterials, leading to the production of smaller-sized objects and 2D structures. In this dimension scale, a key role is played by the surface and interface of the materials. For this reason, surface analysis techniques represent a powerful investigatory tool for evaluating the properties of nanomaterials. This Special Issue will be focused on the advancement of a wide variety of surface analysis techniques employed to study and to characterize advanced nanomaterials. X-ray and UV photoelectron spectroscopies, Auger electron spectroscopy, secondary-ion mass spectroscopy, scanning probe microscopy, and secondary electron microscopy will be explored, showing how they can help to answer many questions at the nanoscale.

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.

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