Special Issue

Nanotubes for Health, Environment and Cultural Heritages

Message from the Guest Editors

Composites based on nanotubular additives are well known to form materials with tuned properties and excellent mechanical responses. Moreover, the hollow morphology is strategic because it can be loaded with active substances (antimicrobials, anticorrosives, antiacids, drugs, genes, antioxidants) for a sustained release. These features can be employed in smart coatings, smart food packaging, drug delivery systems, tissue engineering, reinforced bioplastics, flame retardants, etc. A number of biosensors, built using various nanotubes, have been reported so far. Still, there is a demand for structure–property correlations for the design of nanoarchitectures with these smart features. This Special Issue is focused on the structural and morphological features, performances, and perspective applications of nanotubes. In particular organic (cyclic polypeptides, carbon nanotubes) and inorganic nanotubes (halloysite, imogolite, tungsten disulfide, titanium dioxide, zirconia dioxide, zinc oxide and boron nitrides nanotubes) are considered.

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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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