

Special Issue

Carbon-Based Nanocoatings

Message from the Guest Editor

Currently, nanomaterials and nanotechnologies are innovating many aspects of our daily life. Among nanomaterials, carbon nanocoatings and related nanostructures are important and are extensively studied. This Special Issue aims to collect manuscripts dealing with the use and properties of carbon-based nanocoatings (e.g., graphene, graphene oxide, MXene) alone or in combination with other nanomaterials (metallic or semiconductor nanoparticles or nanocoatings) or even as a part of polymeric nanocomposites, focused on nanocoatings, thin films, surfaces, and interfaces. Subjects that fall into the scope of this Special Issue include the preparation of carbon-based nanocoatings; functionalization methodologies of carbon nanocoatings; the preparation of carbon-composite-based nanocoatings; electrical and structural characterization; physicochemical interaction with molecules or biomarkers; optical properties of nanocoatings; and nanocoatings for energy storage and renewable energy production.

Guest Editor

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About the Journal

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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