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Design and Fabrication of Organic/Inorganic Nanocomposites

Guest Editor:

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Message from the Guest Editor

Nanocomposites are multiphase solid materials where at least one of the components has a nanoscale dimension. Even though the origins were not understood at that time, the inclusion of nanomaterials in a host matrix has been utilized for millennia to produce materials with unique properties. The historical examples are the Roman Lycurgus cup, medieval stained glass, Damascus steel, and carbon black reinforced rubber for automobile tires. Today, nanocomposites are widely employed in the scientific and industrial community to enhance the properties of materials significantly (e.g., mechanical, optical, electrical, thermal, magnetic, biological, electrochemical, and catalytic properties). This Special Issue of *Nanomaterials* aims to consider the current states of the arts in the fields of organic/inorganic nanocomposites. Since research on nanocomposites is a multidisciplinary area, this Special Issue welcomes all submissions focusing on the various technical advances, including but not limited to theoretical simulation, design, fabrication, or characterization of nanocomposites with various compositions, shapes, sizes, surface functional groups, etc.

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Editor-in-Chief

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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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