Special Issue

Artificial Intelligence and Nanotechnology

Message from the Guest Editor

Artificial Intelligence tools have widely been used in nanotechnology research within the last decade. Convergence between AI intelligence and nanotechnology has the potential to significantly alter the trajectory of many technological innovations that rely on AI-enabled explorations and algorithmic optimization based on new computer architectures, data, and hybrid technologies that use a large variety of related disciplines.The aim of this Special Issue is to form a repository of current and diverse research that highlights the use of AI in nanomaterial synthesis for the development of novel nanomaterials and novel and unique applications in electronics, optics, catalysis, medicine, agriculture, and sustainability. In addition to original research, for this Special Issue, we will consider review papers, including mini-reviews focused on a very specific topic.

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.

Editor-in-Chief

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