Special Issue

Polymeric 3D Printing: Applications in Nanoscience and Nanotechnology

Message from the Guest Editor

A research field involving development and optimization of nanocomposites concerns three-dimensional printing (3DP), also known as additive manufacturing (AM), which allows the fast and accurate fabrication of complex structures with a wide range of sizes and forms, favouring low-cost and rapid prototyping. Nowadays, conductive filaments with remarkable electromagnetic, mechanical, and thermal properties can be obtained by using carbon-based particles, overcoming the harsh restrictions encountered with insulating materials classically used with this technology. Despite the achievements in the development of new materials, different issues regarding their applicability and optimization remain to be solved, and further research investigations are therefore expected for this. The Special Issue “Polymeric 3D Printing: Applications in Nanoscience and Nanotechnology” aims to gather and publish original research papers, letters, as well as review articles, which either add knowledge to the current understanding of nanocomposites suitable for additive manufacturing applications or report new insights in this field.

Guest Editor

Prof. Dr. Jianlei Wang
Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou, China

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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