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Eco-Friendly Microdevice Printing Techniques with Functional Nano/Biomaterials

Guest Editors:

Dr. Sabine Portal
Department of Mechanical and Aerospace Engineering, George Washington University, Washington, DC 20052, USA

Dr. Carles Corbella Roca
Department of Mechanical & Aerospace Engineering, George Washington University, Washington, DC 20052, USA

Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editors

The Special Issue is now open for submission of contributions with focus on the synthesis and characterization of nanostructured materials obtained by sustainable deposition processes, such as additive manufacturing and drop-on-demand printing. The functional nanomaterials should exhibit special optical, electronic, thermal, and/or magnetic properties, with an emphasis on physical and chemical functionality for biological and medical applications. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following: inkjet printing, plasma processing of cells and nanomaterials, atomic layer deposition, electrochromic and thermochromic materials, micro/nanofluidic systems, self-assembled nanostructures, nanocomposites, and flexible electronics. The contributions are expected to explore correlations between morphology and functional properties of the printed nanostructures, and to anticipate new research lines covering the areas of nanomaterials and biotechnology within the framework of green methods of synthesis.

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Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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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Contact Us

Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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