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Nanomaterials in Flexible Hybrid Electronics

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Deadline for manuscript
submissions:

30 July 2024

Message from the Guest Editors

Dear Colleagues,

The background and history of this topic reveal a progression from rigid electronic systems to the exploration of materials and structures that offer mechanical flexibility, giving rise to innovative applications.

Flexible hybrid electronics (FHE) and mechanics is a novel approach to electronic manufacturing that aims to combine the best of printed, conventional electronics with nanomaterials, to create advanced systems capable of conforming to various shapes and flexibilities. The scope of the Special Issue lies in showcasing cutting-edge research that pushes the boundaries of this field.

The objective is to feature advancements in healthcare, robotics, aerospace, automotive, and consumer electronics, emphasizing lightweight and flexible products.

Researchers are encouraged to submit papers focusing on wearable electronics, soft robotics, flexible sensors, stretchable displays, and related technologies. Papers should address the challenges and opportunities in this evolving field, fostering a deeper understanding of its potential impact on industries.

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Special Issue



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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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