



## Nanomanufacturing-Based Microelectromechanical Systems

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### Message from the Guest Editor

The study of nanomanufacturing-based microelectromechanical system (NMEMS) is among the leading topics of today's nanotechnology research. Nanomanufacturing techniques used for MEMS devices mainly include nanolithography, electron beam lithography, plasma etching and self-assembly; each of these enables precise control of material deposition and patterning at the nanoscale. The exploration of new nanomaterials (such as 2d materials, metal-organic frameworks, etc.) and new devices (such as MEMS mechanical energy harvesters, MEMS biosensors, etc.) will be necessary if we are to develop MEMS technology.

This Special Issue focuses on the latest developments in nanomaterials and state-of-the-art nanomanufacturing techniques. This publication also intends to consider the practical applications of microelectromechanical systems. We hope to attract both academic and industrial researchers in order to foster the current knowledge of nanomaterials and to present new ideas for use in future applications and new technologies.





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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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