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Micro-/Nanoengineering Systems

Guest Editors:

Dr. Nguyen Van Toan

Graduate School of Engineering,
Tohoku University, Sendai, Japan

Prof. Dr. Takahito Ono

Department of Mechanical
Systems Engineering, Tohoku
University, Sendai 980-8579,
Japan

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Message from the Guest Editors

Dear Colleagues,

The rapid development of Internet of Things (IoT) technologies has emerged as a pivotal solution to address worldwide issues such as an aging society, environmental concerns, and energy usage. Micro-/Nanoengineering systems play a vital role in advancing the IoT due to their miniaturization, energy efficiency, cost-effectiveness, high performance, enhanced functionality, scalability and flexibility. Device-/System-based micro-/nanofabrication technologies demonstrate increased intelligence and responsiveness to their environment. This Special Issue aims to bring together researchers from academia and industry to share their latest findings, discuss challenges and opportunities, and provide insights into future directions of research in the field of micro-/nanoengineering systems. Topics can include but are not limited to:

1. Novel micro-/nano fabrication technologies;
2. Micro-/Nano electro-mechanical devices and systems;
3. Micro-/Nanodevices for energy harvesting and storage applications;
4. Micro-/Nanodevices for biomedical engineering;
5. Micro-/Nanodevices for micro-/nanofluidics;



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Special Issue



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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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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