

Special Issue

Micro/Nanomotors: Design, Materials, Propulsion and Applications

Message from the Guest Editors

This Special Issue focuses on the rapidly evolving field of micro/nanomotors, which are miniaturized devices capable of autonomous motion and task execution at the micro- and nanoscale. These innovative systems, driven by chemical, biological, or external energy sources, hold transformative potential across diverse domains, including biomedical engineering, environmental remediation, and industrial automation. This Special Issue invites contributions exploring novel design principles, advanced materials (e.g., biocompatible polymers, stimuli-responsive composites), scalable fabrication techniques (e.g., 3D printing, self-assembly), and cutting-edge applications (e.g., targeted drug delivery, pollutant degradation, biosensing). We also welcome the submission of studies addressing challenges in motion control, energy efficiency, and real-world integration. By bridging fundamental research and practical innovation, this Special Issue aims to advance the development of next-generation micro/nanomotor technologies and elucidate their impact on science and society. Submissions from interdisciplinary fields are highly encouraged.

Guest Editors

Prof. Dr. Jianguo Guan

State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan 430070, China

Dr. Ming Luo

State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, International School of Materials Science and Engineering, Wuhan University of Technology, Wuhan 430070, China

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

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Editor-in-Chief

Prof. Dr. Nam-Trung Nguyen

Queensland Quantum and Advanced Technologies Research Institute,
Griffith University, West Creek Road, Nathan, QLD 4111, Australia

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