

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.

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