



Novel Functional Nanorobots

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Deadline for manuscript
submissions:
closed (20 April 2022)

Message from the Guest Editor

Dear Colleagues,

The controlled motion of synthetic/artificial nano-objects has recently stimulated significant fundamental and practical interest with the introduction of powerful nano/micromotors providing several examples of applications, e.g., targeted carriage and delivery of drug and cells, on-chip biosensing, drilling of tissues, capturing pollutant from water. These self-propelled nano/micromotors convert chemical energy obtained from their surroundings to propulsion. These breakthrough discoveries have led to the construction of the new-generation of drug-delivery vehicles capable of smart encapsulation, self-navigation, and releasing substances in a rapid and controlled manner. In addition, microscale motors have been shown to add a new dimension based on motion to decontamination processes, resulting in new 'on-the-fly' remediation protocols, with higher efficiency, shorter clean-up time and potentially lower costs.

This special issue aims to address:

- Challenges: fabrications, materials, propulsion, bio and environmentally friendly fuels
- Applications: biomedical, environmental and food safety
- Theoretical study





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Message from the Editor-in-Chief

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