



Nanoparticles for Energy, Sensing and Biomedical Applications

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Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editors

We are pleased to invite you to submit manuscripts in the form of full research papers, short communications, or reviews. The “Nanoparticles for Energy, Sensing, and Biomedical Applications” issue will present recent advances in the synthesis of organic, inorganic, or hybrid nanoparticles. This issue is not limited to any nanoparticle fabrication techniques, and all techniques are welcome. The topic of interest includes but is not limited to:

- Energy storage;
- Renewable energy;
- Energy conversion;
- Electrochemical energy applications;

- Environmental contaminant sensing;
- Optical sensing and imaging techniques;
- Sensing proteins and bacteria;
- Sensing and medical diagnostic applications;
- Sensing food-borne contaminations;

- Fluorescent and other bioimaging labels;
- Drug and gene delivery;
- Biodetection of pathogens;
- Detection of proteins;
- Probing of DNA structure;
- Tissue engineering;
- Detection, monitoring, and therapy of cancer;
- Separation and purification of biological molecules and cells;
- MRI contrast enhancement and Phagokinetic studies.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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