

## Special Issue

# The Disruptive Cross-Fertilization of Nanotechnology and Machine Learning

### Message from the Guest Editor

Nanotechnology and machine learning are amazing technologies with a very high innovation impact on multiple domains such as healthcare, communication, agriculture, food, materials, and energy, to cite a few. Advances from both technologies are already driving us towards a new era of achievements and opportunities. In the future, we imagine an era of the disruptive cross-fertilization of nanotechnology and machine learning. This Special Issue was launched to provide an opportunity for researchers working on the cross-fertilization of nanotechnology and machine learning to highlight their most recent exciting developments and solutions to the current bottlenecks and disruptive breakthroughs to promote practical and innovative applications and shed light upon new developments. For example, from the (electromagnetic, electronic, chemical, and multiphysical) design of nanodevices and nanomaterials to the analysis of data collected by advanced nanodevices/nanomaterials-based setups. Sensing, spectroscopy, imaging, and communication are clearly application domains where this disruptive technology cross-fertilization can have a profound, game-changing impact.

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### Guest Editor

Prof. Dr. Francesco Ferranti  
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### Deadline for manuscript submissions

closed (10 February 2024)



## Nanomaterials

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## About the Journal

### 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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### Editor-in-Chief

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