



## Innovation of Nanotechnology in Agriculture and Food Production

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### Message from the Guest Editors

Advanced (nano)materials offer great potential for society and will be a key component of ensuring a sustainable future. These advanced (nano)materials will enable farmers to better target fertilisation and decrease dependency on pesticides, hence avoiding excessive fertilisation and widespread contamination. Recent advances have shown that bio-based nano-encapsulation can support a more targeted fertilisation and pesticide release in both space and time. However, we are still in the beginning of this development, with more new technologies expected and to be implemented.

This Special Issue focuses on advanced (nano)materials that support a sustainable development in agriculture and in food production. Particularly important will be to obtain a mixture of articles with different approaches and materials. We further encourage authors to submit original experiment research, theoretical research, and more opinion-based papers that provide a perspective on where to focus.





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## Editor-in-Chief

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## 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.

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