

## Special Issue

# Advances in Nano-Enabled Agriculture

### Message from the Guest Editors

Nowadays, agriculture is facing various challenges. Concerns for the decline in farmland and the increasing demand for food worldwide call for an urgent improvement in the current system to a more sustainable one. Nanoscale materials with a much larger surface-to-volume ratio compared to traditional chemicals are widely used in different areas and bring revolutionary changes. Importantly, they are known to significantly increase the photosynthesis rate and yield crops via efficient nutrient delivery, or improve the tolerance of plants to different types of stress by cultivating enzyme activity and enhancing crop disease resistance, although there is still a knowledge gap in the understanding of interactions between plants and applied nanomaterials regarding their in planta uptake and accumulation. This Special Issue, titled “*Advances in Nano-Enabled Agriculture*”, aims to highlight research on emerging applications of nanotechnology in agriculture, food, and the environment as fertilizers, delivery platforms, or pesticides/fungicides which enable the protection of crops against insects and pathogen diseases.

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### Guest Editors

Dr. Chaoyi Deng  
Dr. Yi Wang  
Dr. Jose R. Peralta-Videa

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### Deadline for manuscript submissions

closed (20 June 2023)



## Plants

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*Plants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto:plants@mdpi.com)

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### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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### Editor-in-Chief

Prof. Dr. Dilantha Fernando  
Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

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