

Special Issue

Applied Nanotechnology on Seeds, Plants and Oils

Message from the Guest Editors

What is to affect the quality of the obtained raw material and improve the germination of seeds is the use of appropriate protection during the cultivation of mother plants and the use of modern protection or fertilization measures in the form of silver and copper nanoparticles. Fertilizers can be delivered in at least several ways - directly into the soil or on plant leaves. Nano fertilizers are able to triple the efficiency of nutrient use, as well as provide resistance to stress. The germination rate is sensitive to the surrounding environment and it is well known that germination is delayed by abiotic stress including drought, cold temperature, salinity stress and heavy metal toxicity. Many have assessed the effects of nanoparticles on plant germination and growth to promote these agents and their use in agriculture. It seems advisable to conduct research focusing on a specific plant and its reaction to contact with metal nanocolloids.

Guest Editors

Dr. Magdalena Kachel

Dr. Dziwulska-Hunek Agata

Prof. Dr. Mariusz Gagoś

Dr. Mariusz Szymanek

Deadline for manuscript submissions

closed (20 February 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/82590

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

[mdpi.com/journal/
appls](https://mdpi.com/journal/appls)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)