Special Issue

Nano-Enabled Strategies for Agricultural and Environmental Sustainability

Message from the Guest Editor

It is projected that global populations will further increase by one-third by 2050 and as such will require a 70% increase in food production compared to current output. Feeding so many people using limited natural resources (land, water, and soil), and in the face of declining soil quality, is a grand challenge that the agriculture sector today is facing. Sustainable agriculture helps the environment, but there are concerns about its efficiency. Various nano-enabled strategies are proposed to improve crop production and meet the growing global demands for food, feed, and fuel while practising sustainable agriculture. Therefore, nano-enabled agriculture is a potential efficient and sustainable agriculture.

This Special Issue focuses on the role of nanotechnology in agricultural and environmental sustainability, which broadly includes (but is not limited to) nano-fertilizers and nano-pesticides/fungicides/herbicides that help crop growth, nanotechnology that assists agricultural waste treatment, nanomaterials for environmental remediation, and nano-biosensors for soil–plant systems. Original research articles, communications, and reviews are accepted.

Guest Editor

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