Special Issue

Functional Nanoparticles for Environmental Contaminants Removal and Agricultural Application

Message from the Guest Editor

The application of nanotechnology could also better enable plants to respond to a changing environment. Nanotechnology can also play an important role in crop productivity through the control of nutrient availability and utilization, as well as through mediating nutritional status in the presence of biotic and abiotic stress. Nanoscale platforms can also be used to monitor water quality parameters, including for pesticide residue presence, in efforts to promote the sustainable development of agriculture. Nanomaterials have tremendously diverse functionality and as such, it is difficult to deliver a general assessment of crop health and environmental risks. To explore this important topic, we are assembling a special issue of Coatings to encourage researchers and to provide them with a platform to publish their novel studies on the topic "Functional Nanoparticles for Environmental Contaminants Removal and Agricultural Application." The theme of this special issue broadly includes (but is not limited to):

- Nano-fertilizers,
- Nano-pesticides
- Nano-biosensors for soil-plant systems
- Nanomaterials for environmental remediation

Guest Editor

Prof. Dr. Yu Shen

College of Ecology and Environment, Nanjing Forestry University, Nanjing 210037, China

Deadline for manuscript submissions

closed (1 September 2023)



Coatings

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.4



mdpi.com/si/92785

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

mdpi.com/journal/coatings





Coatings

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.4





About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)