



## Frontiers in Metallic Nanoparticles

Guest Editors:

**Prof. Dr. Farid Mena**

Department of Nanomedicine  
and Advanced Technologies, CIC-  
Fluorotronics, Inc., San Diego, CA  
92037, USA

[dr.fmenaa@gmail.com](mailto:dr.fmenaa@gmail.com)

**Prof. Dr. Gobika  
Thiripuranathar**

Department of Chemistry,  
Institute of Chemistry Ceylon,  
College of Chemical Sciences,  
Welikada, Rajagiriya 10107, Sri  
Lanka

[tgobika@ichemc.edu.lk](mailto:tgobika@ichemc.edu.lk)

Deadline for manuscript  
submissions:

**30 November 2021**

### Message from the Guest Editors

Metal (and metal oxide) nanoparticles (NPs) have found applications in biomedicine, catalysis, electronics, and environment. Noble-metal nanoparticles have attracted extensive research interest due to their unique features such as optical, electronic, magnetic, and catalytic properties. Conventional chemical methods, as well as some biological approaches (e.g., plant-derived), have been successful in sustainably synthesizing noble-metal NPs with all the desirable properties. For the past few decades, many NPs have been produced through various methods and utilized to advance technologies for environmental applications, including water treatment, detection of persistent pollutants, and soil/water remediation, amongst many others. The field of materials science and engineering is increasingly interested in increasing the sustainability of the processes involved in the production of NPs.

The focus, scope, and purpose of this Special Issue is all about innovative synthesis, properties, ecotoxicity, and application of smart and advanced metallic-based NPs for environmental applications.

# Special Issue





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer-reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

**Open Access:**— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High visibility:** indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

**Journal Rank:** [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

## Contact Us

---

*Sustainability*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
Fax: +41 61 302 89 18  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[@Sus\\_MDPI](https://twitter.com/Sus_MDPI)