

## Special Issue

# Advanced Analytical Approaches for Environmental Toxicology and Ecosystem Health

### Message from the Guest Editors

The presence of contaminants in both abiotic and biotic matrices increasingly necessitates the employment of sophisticated analytical techniques, facilitating a comprehensive analysis through the integration of environmental toxicology and the one health paradigm. In this regard, this Special Issue seeks to publish research in the field that uses innovative analytical tools to analyze contaminants. We invite research that examines how contaminants interconnect with human, animal and environmental health. The promotion of interdisciplinary collaboration is imperative to address toxic risks in a more holistic manner. Such collaboration is also essential for the estimation and assessment of both deterministic and probabilistic environmental and health risks of exposure to toxic agents through different routes using mathematical models. It is vital that regulatory aspects are considered to reduce the effects of the use of these chemical agents in everyday life.

### Guest Editors

Dr. José Belisario Leyva-Morales

Instituto de Ciencias Básicas e Ingeniería, Universidad Autónoma del Estado de Hidalgo (UAEH), Mineral de la Reforma 42184, Hidalgo, Mexico

Dr. Roberto Muñoz-Valencia

Facultad de Ciencias Químicas, Universidad de Colima, Carretera Colima-Coquimatlán km 9, Coquimatlán 28400, Colima, Mexico

### Deadline for manuscript submissions

20 April 2026



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/255394](https://mdpi.com/si/255394)

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

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

[applsci](https://doi.org/10.3390/applsci)





# 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 )