

## Special Issue

# Sustainable Environmental Solutions

### Message from the Guest Editors

This Special Issue aims at collecting research activities focused on the development of new processes to replace the above-cited obsolete practices. Taking inspiration from real problems and the need to face real cases of contamination or prevent potentially harmful situations, we discuss the development and optimisation of “smart” solutions. Contributions on the following topics are particularly welcome:

- Energy and water efficiency in industry and mining
- Renewable energy resources
- Nano/microtechnologies and science for sustainable development of energy, water, and environment systems;
- Environmental management
- Modelling for pollution avoidance, energy efficiency and resources optimisation

**Keywords:** Environmental pollution and remediation; Resource recovery and recycling strategies; Sustainability assessment; Hazardous waste management; Water and wastewater treatment; Waste recovery, recycling and valorisation; Soil and water reclamation; Valorisation of waste-streams; Emerging contaminants; Nanomaterials; Process modelling

---

### Guest Editors

Dr. Sergio Ferro

Ecas4 Australia Pty Ltd., Mile End South, SA 5031, Australia

Dr. Marco Vocciante

Department of Chemistry and Industrial Chemistry (DCCI), University of Genova, Via Dodecaneso 31, 16146 Genova, Italy

---

### Deadline for manuscript submissions

closed (31 December 2020)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/32016](https://mdpi.com/si/32016)

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