

## Special Issue

# Advanced Methods and Practices for the Management of Biogas, Leachate, and Post-closure of Landfills

### Message from the Guest Editors

The huge amounts of solid wastes disposed in landfills, closed or still operative, pose serious environmental problems. Notwithstanding the legislative documents in force in all the industrialized countries, the environmental impacts during the landfill life and after its closure are numerous. Moreover, these impacts act on different sectors. Landfill is always linked to biogas and leachate, gas emissions, and risk of pollution to groundwater. However, other features must be considered: noises, odor, and dust diffusion during waste disposal, risks for workers, settlement of land and return to the population over time, health impacts on the population living close to the site, and loss of economic value for the land surrounding the landfill itself. This Special Issue aims to gather contributions dealing with methods, systems, and techniques able to reduce and limit the impacts deriving from all the operations carried out during the landfill life and after its closure. Both experimental studies at a small scale and results deriving from on-site experience are welcome.

---

### Guest Editors

Prof. Fulvia Chiampo

Department of Applied Science and Technology, Politecnico di Torino,  
Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Prof. Dr. Micaela Demichela

Department of Applied Science and Technology, Politecnico di Torino,  
Corso Duca degli Abruzzi 24, 10129 Torino, Italy

---

### Deadline for manuscript submissions

closed (30 April 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/102700](https://mdpi.com/si/102700)

*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://mdpi.com/journal/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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )