



## Energy Recovery, Sustainability and Waste Management

Guest Editors:

### **Dr. Marlia M. Hanafiah**

Department of Earth Sciences  
and Environment, Faculty of  
Science and Technology &  
Institute of Climate Change,  
Universiti Kebangsaan Malaysia,  
43600 Bangi, Malaysia

### **Dr. Kok Sin Woon**

New Energy Science and  
Engineering Department, School  
of Energy and Chemical  
Engineering, Xiamen University  
Malaysia, Sepang 43900, Malaysia

### **Saleh Shadman**

Department of Mechanical,  
Materials, and Manufacturing  
Engineering, University of  
Nottingham Malaysia, 43500  
Semenyih, Malaysia

Deadline for manuscript  
submissions:

**closed (28 February 2023)**

### **Message from the Guest Editors**

The global increase in energy demand and consumption is a leading cause of the higher use of fossil fuels to meet these demands. Climate change, the mining of fossil fuels, the depletion of natural resources, and the lack of renewable resources are some of the many challenges we currently face. Carbon assessment and capture technologies need to be consolidated to identify the best carbon sinks and capture and storage methods as mitigation measures.

There is a need for sustainable solutions and management strategies for resources utilisation, production and consumption, as well as social awareness, education, and environmental policy at various levels [4]. Renewable energy is required to combat fossil-fuel-induced climate change, and there is a need for bio-based materials as an alternative for the treatment and management of waste [5]. Many methods (life cycle assessment, environmental footprint, environmental impact assessment, life cycle costing, cost-benefit analysis) are available to assess the sustainability performance of human activities, and we encourage researchers to propose these or new methods of assessment through their submission to the 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. *Sustainability* publishes original research articles, review 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](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

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