



## Sustainable Waste Management to Mitigate Global Climate Change

Guest Editors:

**Prof. Dr. Jay N. Meegoda**

Department of Civil and  
Environmental Engineering, New  
Jersey Institute of Technology,  
Newark, NJ 07102, USA

**Dr. Daniel Jay Watts**

Department of Biology, Indiana  
University, 1001 East Third Street,  
Bloomington, IN 47405, USA

Deadline for manuscript  
submissions:

**closed (31 January 2023)**

### Message from the Guest Editors

Climate change is often identified as one of the greatest challenges of the 21st century. Changes in the climate are caused by the build-up of carbon dioxide (CO<sub>2</sub>) and other greenhouse gases (GHGs). Climate change already contributes to rising sea levels, shrinking glaciers, violent weather events, the spread of infectious diseases, loss in biological diversity and agricultural shifts, and these effects and others can be expected to become even more serious with time. While many factors contribute to this emerging problem, we know that each year, over 100 billion tons of primary materials are extracted and used globally, with only nine per cent being recycled (UNDP, 2019). This material extraction, use, generation and management of waste contribute significantly to climate change. Hence, it is critical to consider sustainability, biomimicry, green chemistry and pollution prevention for material extraction, use, generation and management of waste as key contributors to the mitigation of global climate change.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Paul B. Tchounwou**

RCMI Center for Urban Health  
Disparities Research and  
Innovation, Richard Dixon  
Research Center, Morgan State  
University, 1700 E. Cold Spring  
Lane, Baltimore, MD 21251, USA

## Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

## Author Benefits

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

**High Visibility:** indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Public Health, Environmental and Occupational Health*)

## Contact Us

---

International Journal of  
*Environmental Research and Public  
Health* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/ijerph](http://mdpi.com/journal/ijerph)  
[ijerph@mdpi.com](mailto:ijerph@mdpi.com)  
[X@IJERPH\\_MDPI](https://twitter.com/IJERPH_MDPI)