

Special Issue

Climate Responses and Extremes Under Net-Zero and Net-Negative Carbon Dioxide Emission Pathways

Message from the Guest Editors

As discussions around carbon dioxide emission reductions as a mitigation approach have intensified, a wide range of questions concerning their impacts, effectiveness, and potential side effects have been raised within the climate research community. A broad array of factors may influence both mean and extreme climate responses to net-zero and net-negative carbon dioxide emissions, including the trajectory of removal (e.g., abrupt versus gradual), the background climate state or cumulative carbon dioxide emissions prior to implementation, differences in climate model characteristics, and other related factors. Given these diverse and potentially interacting sources of uncertainty, it is essential to establish a robust fundamental understanding of mean and extreme climate responses to inform decision-making and support adaptation to future climate conditions. This Special Issue presents scientifically rigorous investigations into a wide spectrum of mean and extreme climate responses, spanning multiple temporal and spatial scales (e.g., from the global scale to individual regions).

Guest Editors

Dr. Seungmok Paik
Dr. Jongsoo Shin
Dr. Sanjit Kumar Mondal

Deadline for manuscript submissions

20 October 2026



Environments

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 5.7



mdpi.com/si/277400

Environments
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
environments@mdpi.com

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





Environments

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 5.7



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



About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati

1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy

2. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xijiekouwai Street, Beijing 100875, China

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.6 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2026).