# **Special Issue**

# Rainfall Patterns and Flood and Drought Risk: Assessing Vulnerabilities, Building Resilience and Enhancing Sustainability

### Message from the Guest Editor

Rainfall patterns play a crucial role in determining flood and drought risk, significantly influencing both shortterm weather events and long-term climate conditions. Expanding knowledge and addressing challenges in rainfall calculations are essential to preventing floods and droughts. Therefore, the primary objective of this Special Issue is to contribute to discussions on the need to better understand rainfall processes and apply modern techniques to calculate design rainfall, as well as indicators of drought, including the formation stages of these phenomena. This includes introducing new ideas and solutions in drought and flood risk management. We encourage authors to share their insights, knowledge, and achievements in rainfall analysis, with a focus on its influence on flood and drought processes. This may include new methods for measuring meteorological factors, such as using satellite imagery or reanalyzed data to assess precipitation, soil moisture, and more, as well as forecasting floods and droughts.

#### **Guest Editor**

Dr. Andrzej Walega

Department of Sanitary Engineering and Water Management, Faculty of Environmental Engineering and Land Surveying, University of Agriculture in Krakow, 31-120 Kraków, Poland

### Deadline for manuscript submissions

30 June 2026



## Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/220933

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

mdpi.com/journal/ sustainability





### Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



## **About the Journal**

### 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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

### Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

#### **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, RePEc, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

