



Role of Digitization in the Transition toward a Circular Economy

Guest Editors:

Dr. Charisios Achillas

Department of Supply Chain
Management, International
Hellenic University, 60100
Katerini, Greece

Prof. Dr. Dimitrios Aidonis

Department of Supply Chain
Management, International
Hellenic University, 60100
Katerini, Greece

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

The potential role of Industry 4.0 in driving the transition towards a circular economy by harnessing the power of digital technologies, data analytics, and automation has already been established. Recent advancements in technology and Internet of Things have empowered industries to optimize resource usage, reduce waste, and enhance sustainability across the entire value chain. IoT-enabled product tracking facilitates efficient product recovery, refurbishment, and recycling, thereby promoting circularity. Moreover, Industry 4.0 enables agile, localized production, and supports circular business models such as product-as-a-service and sharing platforms. With data-driven insights, collaborative ecosystems, and circular design innovation, Industry 4.0 can become a driving force in reshaping industries toward a more sustainable and circular future, aligning economic growth with environmental protection.

This Special Issue aims to publish original papers, reviews, as well as pilot studies on innovative technological developments, new knowledge and near-to market solutions in the domain of circular economy in the modern digital era.





an Open Access Journal by MDPI

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

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.

Author Benefits

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

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)

Contact Us

Environments Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/environments
environments@mdpi.com
✉@Environ_MDPI