

Special Issue

The Role of Industry 4.0 in Advancing Circular Economy and Sustainability

Message from the Guest Editors

The shift toward sustainable industrial ecosystems is driven by integrating Industry 4.0 technologies with Circular Economy principles. Designers and engineers must rethink traditional linear models to enable intelligent, data-driven, and adaptive processes. Technologies such as IoT, AI, Big Data, Cloud Computing, and Digital Twins support real-time monitoring, predictive maintenance, material traceability, and closed-loop systems, essential for implementing sustainability in practice. This Special Issue invites papers on innovative methods combining Industry 4.0 and Circular Economy to measure, monitor, and apply sustainability, including reviews and case studies on energy efficiency, lifecycle extension, and resource flow. All submissions will undergo rigorous peer review for timely and broad dissemination.

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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

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