

Special Issue

Sustainable Industries and Circular Economy

Message from the Guest Editor

This Special Issue focuses on advanced technologies, methods, and frameworks that enable the transition of industrial systems toward sustainability and circular economy principles. Emphasis is placed on the practical and scalable implementation of R-strategies such as reuse, repair, refurbishment, remanufacturing, repurposing, recycling, and recovery in manufacturing and process industries. Contributions should address how products, materials, and systems are designed, operated, monitored, and reintegrated into value chains with minimal waste and high resource efficiency. The Special Issue highlights data-driven decision support, remaining useful life assessment, intelligent sorting and disassembly, and waste management aligned with zero-waste concepts. It also emphasizes digital technologies for circularity, including digital product passports, digital twins, industrial IoT, AI analytics, and traceability platforms that support lifecycle transparency and informed end-of-life decisions. Methodological studies on sustainability assessment, lifecycle thinking, and circular performance indicators are encouraged to bridge theory and industrial practice.

Guest Editor

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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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