

Special Issue

Sustainable Engineering for Industry 4.0: Digitization and Circularity in Manufacturing

Message from the Guest Editors

Dear Colleagues, This Special Issue, "*Sustainable Engineering for Industry 4.0: Digitization and Circularity in Manufacturing*", explores two key pillars of sustainable industry transformation: digitization and the circular economy. Digitization enables data-driven optimization of production, resource use, and decision-making while enhancing safety and ergonomics through sensor systems and digital modeling. It supports environmental monitoring, predictive maintenance, and the creation of worker-centered environments. Circularity, meanwhile, emphasizes waste prevention, resource efficiency, and closing material loops across the product lifecycle. Together, these approaches create regenerative, sustainable models for modern manufacturing. This Special Issue seeks contributions that integrate these concepts, offering interdisciplinary insights to advance theory and practice. Submissions should demonstrate how digital tools and circular strategies can foster environmentally efficient and human-centered industrial systems.

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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.

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