

## Special Issue

# Sustainable Development in Materials Engineering: Shaping the Future Responsibly

### Message from the Guest Editor

Sustainable development in materials engineering is a critical field that focuses on balancing high performance with environmental responsibility while maximizing economic viability. The key goal in sustainable materials engineering is straightforward—to create materials that are renewable, recyclable, or biodegradable. On the manufacturing side, energy-efficient technologies, like additive manufacturing (3D printing) or those based on renewable energy, are helping cut down waste and emissions significantly. The strategy also has long-term aims—designing for durability and a circular economy where products are built to last and be repurposed, enabling continuous reuse. From smart materials to nanotechnology, innovation highlights new ways to enhance sustainability. However, the transfer of green solutions from the lab to the market requires collaboration between academia and industry leaders. This represents a complex balancing act between cost and performance, but it is the way forward for a resilient future. It is my pleasure to invite all of you to submit manuscripts for inclusion in the Special Issue. Research articles and review papers are welcomed.

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### Guest Editor

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### Deadline for manuscript submissions

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## Sustainability

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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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## Editor-in-Chief

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