

## Special Issue

# Applications of Smart Technologies for Promotion of Energy Efficiency, Utilization of Sustainable Resources and Waste Management

### Message from the Guest Editor

The rapid advancement of smart technologies is reshaping the landscape of energy and environmental systems, enabling more efficient, sustainable, and data-driven approaches to resource management. This Special Issue focuses on the innovative applications of smart technologies—such as the IoT, AI, big data analytics, digital twins, and the blockchain—in enhancing energy efficiency, promoting the utilization of sustainable resources, and optimizing waste management processes. Contributions that explore intelligent systems for real-time energy monitoring, predictive maintenance in renewable energy systems, smart grids, and integrated platforms for waste valorization are particularly welcome. The Special Issue also encourages interdisciplinary research addressing the environmental, economic, and social implications of these technologies. By bringing together cutting-edge research and practical implementations, this Special Issue aims to highlight how smart technologies can play a transformative role in achieving global sustainability goals and fostering circular economy practices.

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### Guest Editor

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### Deadline for manuscript submissions

closed (28 February 2026)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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