

## Special Issue

# Sustainable and Energy-Efficient Manufacturing Systems Through Advanced Sensor and Process Monitoring

### Message from the Guest Editors

Sustainable and energy-efficient manufacturing is a key priority in modern industry, driven by the need to reduce environmental impact while improving productivity.

Advances in sensor technologies and process monitoring are critical to achieving these goals. Smart sensors enable real-time control and the optimisation of process and energy usage in manufacturing systems.

This Special Issue, *Sustainable and Energy-Efficient Manufacturing Systems Through Advanced Sensor and Process Monitoring*, invites research papers that present current research and development in exploring sensors and their integration for sustainable manufacturing. Topics include, but are not limited to, energy-efficient production, real-time monitoring, condition-based maintenance, and intelligent decision making using sensor networks. Papers addressing the role of sensors in reducing energy consumption and waste and improving operational efficiency are encouraged. This Special Issue aims to showcase innovations in sensor-based monitoring and control, advancing sustainable and smarter manufacturing systems.

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### Guest Editors

Prof. Dr. Xun Chen

Dr. Tahsin Öpöz

Dr. Andre Batako

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### Deadline for manuscript submissions

30 April 2026



## Sensors

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## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

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