

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.

Guest Editors

Prof. Dr. Xun Chen
Dr. Tahsin Öpöz
Dr. Andre Batako

Deadline for manuscript submissions

31 March 2027



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/219598

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di
Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)