

Sensors and Materials

Special Issue on Sustainable Sensor Materials, Processes, and Applications

Call for Papers

This special issue highlights groundbreaking advancements in sensor materials, processes, and applications, with a strong focus on sustainability, including Environmental, Social, and Governance (ESG) principles and the United Nations Sustainable Development Goals (SDGs). It underscores the pivotal role of sensors in modern life and industry, particularly in aerospace, intelligent manufacturing, and the Internet of Things (IoT), addressing key parameters such as strength, distance, height, and pressure. The issue explores cutting-edge materials—such as carbon, metals, ceramics, polymers, and their composites—alongside advanced design strategies, manufacturing techniques, and system integrations. Contributions that delve into the use of innovative biomolecular materials, microorganisms, and diverse organic and inorganic substances in sensor technologies are highly encouraged. By integrating sustainability at every level—from material innovation to application—this issue aims to showcase how sensor technologies can drive environmental responsibility, enhance societal well-being, and promote a circular economy. The goal is to push the boundaries of sensor innovation while supporting a more sustainable, inclusive, and resilient future.

Scope:

Sustainable sensor designs	Sustainable sensors in life
Sustainable sensor materials	Sustainable sensors in manufacturing
Sustainable sensor applications	Sustainable sensors in IoT
Sustainable sensor fabrication	Sustainable sensors in system
Sustainable intelligent sensors	Sustainable sensors in biomedicine

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