

Sensors and Materials

Special Issue on AI-driven Sustainable Sensor Materials, Processes, and Circular Economy Applications

Call for Papers

This special issue invites original research and review articles that explore the integration of AI, Sustainable Development Goals (SDGs), and circular economy principles into sensor technologies. The emphasis of this issue will be on the development of advanced materials and intelligent sensor systems that contribute to environmental stewardship, social responsibility, and sustainable industrial growth. Topics include innovations in sensor materials, manufacturing processes, and applications that leverage AI and promote closed-loop systems, resource efficiency, and sustainable ecosystems. The issue also welcomes interdisciplinary approaches that demonstrate how smart sensors can address SDG challenges in health, energy, climate, water, and urban resilience.

Scope

- AI-driven sensor systems
- Sustainable sensor materials
- Circular-economy-enabled sensor applications
- Low-carbon manufacturing of sensors
- Smart sensors for SDG-related applications (e.g., clean water, air quality, renewable energy)
- Bio-based and biodegradable sensor components
- Energy harvesting and self-powered sensors
- Intelligent sensing systems for Industry 4.0
- Sensors for waste management and resource recovery
- Ethical and responsible AI in sensor technologies

Submission Information

Submission Due Date: February 28, 2026

Planned Publication: Second half of 2026

Submission Site: <https://myukk-org.ssl-xserver.jp/form/>

Journal Website: <https://sensors.myu-group.co.jp/>

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(Attention)

As stated in Instructions to Authors in the Guidelines, the author(s) will be obliged to pay the publication fee upon the acceptance of the manuscript for publication (for example, JPY 167200 for 10 pages in *Sensors and Materials* format as of January 2025). Please refer to the following URL for detailed information on fees.

<https://sensors.myu-group.co.jp/permanent/Instructions%20to%20authors2019%20EN.pdf>

If the quality of the English of your manuscript does not satisfy the journal standards, the authors should bear the proofreading fee (JPY 11000–44000), which will be charged with the publication fee.

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