Special Issue

AI and Material Science Synergy for Advanced Plant-Wearable Sensors

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- AI and ML for plant monitoring, such as algorithms for data analysis, predictive modeling, and decision support.
- Advanced materials for plant-wearable devices, including biodegradable, stretchable, and self-powered sensors.
- Wireless communication and IoT integration, including low-power networking, cloud connectivity, and edge computing.
- Exploring energy harvesting in plant sensors, encompassing nanogenerators, self-sustaining sensors, and eco-friendly power sources.
- Applications in precision agriculture without being limited to disease detection, nutrient monitoring, and stress response analysis.
- Challenges and future directions, tackling scalability, durability, and ethical considerations in smart agriculture.

We look forward to receiving your contributions.

Guest Editors

Dr. Ronnie S. Concepcion II

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Dr. Jane Roche

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Deadline for manuscript submissions

31 December 2025

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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Retired Scientist from Agricultural Research Service, United States
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Author Benefits

High Visibility:
indexed within Scopus, ESCI (Web of Science), PubAg, FSTA, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:
JCR - Q2 (Agricultural Engineering) / CiteScore - Q1 (Horticulture)

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 5.4 days (median values for papers published in this journal in the first half of 2025).

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