

Biodegradable Sensors for Smart Agriculture and Environmental Monitoring

A new class of biodegradable sensors made from plant-derived polymers is introduced for monitoring soil pH, moisture, and nutrient levels. Designed to decompose naturally after usage, these sensors minimize environmental waste and do not require retrieval. Their low cost and wireless data transmission make them ideal for scalable deployment in developing regions. This supports SDG 2 (Zero Hunger), SDG 12 (Responsible Consumption), and SDG 15 (Life on Land).