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(57) Abstract :

A system and method for monitoring and classifying mosquito repellents id described herein. The system employs a sensor-based IoT framework integrated with machine learning algorithms to classify and monitor the effectiveness of mosquito repellents. The system features a gas sensor array consisting of eight non-selective sensors for detecting chemical signatures.a temperature-humidity sensor for environmental data collection.a microcontroller unit with Wi-Fi capabilities for data transmission.a machine learning module to preprocess, classify, and analyze sensor data.

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