Special Issue

Advances in Microwave Sensors: From Fabrication to Application

Message from the Guest Editors

Microwave planar sensors provide a number of possible benefits over traditional sensors, including their small size, low cost, and ease of production and integration. However, some of their fundamental flaws, such as their sensitivity and selectivity, limit their use and range of applications. For highly precise complex permittivity measurements to track the minute differences between various material samples, high-sensitivity microwave planar sensors must be developed. This Special Issue aims to explore current research on the design of microwave planar sensors as well as upcoming challenges presented by their sensitivity and selectivity. The results of this Special Issue may help in enhancing the normalized sensitivity of planar microwave sensors for material characterization, particularly in biochemical and beverage industry applications.

- biosensor
- complex permittivity extraction
- field distribution
- industrial applications
- microwave sensors
- resonators

For more information, please visit: mdpi.com/si/129075

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Deadline for manuscript submissions

closed (30 September 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/129075

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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