

Special Issue

Development of UWB High-Gain Vivaldi Array Antenna for Microwave Imaging of Construction Materials and Composite Structure

Message from the Guest Editors

The rapid development of microwave non-destructive testing and evaluation (NDT&E) of materials and structures has increased the demand for improved microwave measurement methods and techniques. The use of ultra-wideband (UWB) measurement systems is of particular interest for civil engineering applications as it can detect defects and damages in construction materials and composite structures using imaging methods and techniques. The development of UWB high-gain Vivaldi array antennas for these systems with proper dimensions and high performance is one of the major challenges. The success of applying the UWB microwave technique is dependent on the operating frequency utilized for specified material under test.

Guest Editors

Dr. Mahdi Moosazadeh

Department of Electrical and Electronic Engineering, The University of Melbourne, Melbourne, VIC 3010, Australia

Prof. Dr. Andrey Miroshnichenko

School of Engineering and Information Technology, University of New South Wales Canberra, Northcott Drive, Campbell, ACT 2600, Australia

Deadline for manuscript submissions

closed (30 September 2022)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/61251

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)