

Special Issue

Substrate Integrated Waveguide (SIW) and Its Applications II

Message from the Guest Editor

During the last decade, substrate integrated waveguide (SIW) technology has been largely implemented for the construction of numerous microwave devices and circuits based on innovative solutions or re-proposing, by following a quasi-planar approach, well-known functionalities of classical waveguide-based components/systems. The possibility of fabricating shielded structures by employing planar geometries has provided an amazing way to fabricate innovative resonators exhibiting very high quality factors suitable for filter and oscillator applications, efficient radiating structures. Multi-layered printed circuit board (PCB) or low-temperature co-fired ceramic (LTCC) technologies and the SIW approach allow a high feasibility, planar integration and packaging degree to be reached. As a consequence, the possibility of fabricating complex structures at low cost fulfils the increasing demand of highly sophisticated antennas for satellite communication, 5G and new generation wireless systems, terahertz systems, biomedicine, and a number of other applications.

Guest Editor

Prof. Dr. Francesco Prudeniano

Department of Electrical Engineering and Information, Entries
Polytechnic University of Bari, Via Orabona, 4-70125 Bari, Italy

Deadline for manuscript submissions

closed (20 May 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/41380

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

mdpi.com/journal/

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)