

Special Issue

Exposure Assessment of Electromagnetic Fields in Innovative and Futuristic Scenarios

Message from the Guest Editors

The imminent arrival of 6G wireless networks, featuring new frequencies and transmission methods and a vast increase in connected devices, will impact electromagnetic field (EMF) exposure for humans and animals. This technological shift will create complex exposure scenarios, with multiple sources contributing simultaneously, resulting in variable exposure patterns. To illustrate this phenomenon, the implementation of new frequencies in these emerging technologies may necessitate a reconsideration of our models for human outermost tissues. As we move into higher-frequency ranges, our understanding of how EMF interacts with biological systems must evolve. Moreover, these emerging scenarios and novel elements may require innovative approaches to solving EMF-related problem. The Special Issue aims to explore cutting-edge approaches to EMF exposure assessment in the context of these new technologies. We seek to address current research gaps and provide reliable, realistic evaluations of exposure levels for the general public in everyday futuristic settings, while also advancing our understanding of high-frequency EMF interactions with biological tissues.

Guest Editors

Dr. Silvia Gallucci

Institute of Electronics, Computer and Telecommunication Engineering (IEIT), Consiglio Nazionale delle Ricerche (CNR), Milan, Italy

Dr. Gabriella Tognola

CNR National Research Council, Institute of Electronics, Computer and Telecommunications Engineering IEIT, 20133 Milano, Italy

Deadline for manuscript submissions

closed (30 January 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/212590

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

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





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, CAPlus / SciFinder, and other databases.

Journal Rank:

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