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Exposure Assessment of Electromagnetic Fields in Innovative and Futuristic Scenarios

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Message from the Guest Editors

Dear Colleagues,

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.

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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.

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