



## Advances in Electroporation Systems and Applications

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### Message from the Guest Editor

Dear Colleagues,

Electroporation is a phenomenon of biological cell membrane permeabilization triggered by a pulsed electric field; it is accompanied by the electro-transfer of target molecules inside or outside the cell. It is widely used in biomedicine, food processing, biotechnology, and other applied sciences. Depending on the electric field parameters, a variety of electroporation-mediated biological effects can be triggered, which require state-of-the-art technological platforms for pulse generation, metrology, and application. As a result, the development of electroporation systems is ongoing, and the array of applications is systemically expanded. This Special Issue is dedicated to all aspects of applied electroporation research, as well as the development of pulsed power devices.

Prof. Dr. Vitalij Novickij  
*Guest Editor*





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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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