Special Issue

Electrical Manipulation of Bioparticles in Microfluidics

Message from the Guest Editor

This Special Issue aims to focus on applications in the field of disease diagnostics that utilize electrokinetics to manipulate and characterize infected bioparticles ranging from cells to proteins. Submissions integrating modeling and experimentation are preferred. Contributions may be (i) research articles with original results or (ii) critical reviews, which may also contain original results focusing on novel methodological developments and applications pertaining to the electrical manipulation of bioparticles at micro and sub-micro scales. The subjects of the upcoming issue could include, but are not limited to:

- Electrokinetics in microchannels and nanochannels;
- Dielectric spectroscopy;
- Traveling wave dielectrophoresis;
- Dielectrophoretic enrichment, separation, and manipulation;
- Organ-on-a-chip with electrical stimulations;
- Biosensors integrated with microchips utilizing an electric field to manipulate bioparticles;
- AI/ML applications with microchips utilizing an electric field to manipulate bioparticles.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)

Micromachines

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Impact Factor 3.0
CiteScore 6.0
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mdpi.com/si/109544

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Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

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