Special Issue

Future Applications of Microfluidics and Lab-on-a-Chip Technology for Drug Discovery

Message from the Guest Editor

This Special Issue aims to highlight the latest advances and innovative research in the field of lab-on-a-chip and microfluidics, with a particular focus on their applications in various domains such as chemistry, organ-on-a-chip systems, magnetic materials, and advanced micro/nanostructures, especially for drug discovery, drug delivery and drug release, etc. We invite researchers and experts in these fields to contribute their original research, reviews, and perspectives on the development and application of microfluidic devices, lab-on-a-chip systems, and micro/nanostructures for diverse applications, e.g., drug release and drug discovery. Contributions may cover topics including, but not limited to, the following: microfluidic synthesis, analysis, manipulation, and the control of chemical reactions; the integration of organ-on-a-chip platforms for biological studies, fabrication, and the characterization of magnetic materials at the micro/nanoscale; microfluidics and nanoparticles for the preparation of drug delivery systems; novel approaches for the design and optimization of micro/nanostructures; and various fields of science and engineering.

Guest Editor

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