

Special Issue

Advanced Developments in Droplet Microfluidics

Message from the Guest Editor

The field of droplet microfluidics has rapidly developed over the past decade, leading to many innovative applications, and continues to evolve, showcasing the latest achievements in material science, artificial intelligence, and 3D printing. For instance, droplet generation is currently being investigated to increase throughput and make this technology more accessible, and efforts to improve robustness, throughput, and ease of use are gaining momentum. Beyond droplet manipulations, this technology has played a key role in enabling novel biological or chemical applications, including high-throughput cell or bacteria screening and single-cell genomics. This Special Issue seeks to showcase all the aspects of the exciting field of droplet microfluidics, including, but not limited to, technology development, applications, and open-source systems.

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