Special Issue

Polymer-Based Microfluidics

Message from the Guest Editors

Early microfluidics usually used silicon or glass materials with fabrication methods inherited from the MEMS field; however, to lower the instrument and material costs, polymer materials have been widely used in the recent two decades. In this Special Issue, we seek to invite the most up-to-date studies on a wide range of polymer microfluidics and their applications including, but not limited to, innovative polymer material used in microfluidics; new fabrication/processing methods for polymer microfluidics; 3D printing approaches for polymer microfluidics; characterization of the performance of polymer materials in microfluidics; chemical resistance/biocompatibility of the polymer materials used in microfluidics; surface modification methods for polymer microfluidics; integration of polymer parts on the microfludics, such as integration of membranes as enrichment part on microfluidics, polymer-based flexible substrate microfluidics for wearable application, polymer-based photonics for the detection; and flexible microfluidics and polymer microfluidics applications in various fields.

Guest Editors

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