Special Issue

Polymer Based Microsystems

Message from the Guest Editor

Research within micro-systems engineering targeting, for example, biomedical or biotech applications, has to a large extent, moved from silica-based to polymer-based materials platforms. This trend is partly driven by the need to lower entry barriers for commercialization and to ease design-for-manufacturability of bio-MEMS, microfluidics, and lab-on-chip systems. However, one of the main challenges of shifting to a polymer platform is the technology barrier that exists between flexible proof-of-principle approaches and high-volume, low-cost, production friendly, but less flexible approaches. Moreover, the architectures of micro-systems targeting specific applications usually impose very special requirements making standardization almost impossible. More research on polymer micro-systems is thus required. With this Special Issue, we welcome research papers that address the above-mentioned challenges. We will consider the full breadth of research papers on polymer microsystems, from engineering papers to more application-focused papers in which a polymer materials platform is employed.

Guest Editor

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Editor-in-Chief

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