Special Issue

Microfluidics on Printed Circuit Boards

Message from the Guest Editors

Over the past twenty years, the rapidly increasing number of publications on lab-on-a-chip systems realized on printed circuit boards (PCB) is indicative of the future potential of the technology and its emerging applications. Indeed, the lab-on-printed circuit board (Lab-on-PCB) approach enables the seamless integration of microfluidics, sensors, and electronics, and promises the commercial upscalability and standardization of microfluidics, leveraging the well-established PCB industry with standardized fabrication facilities and processes. To make this vision possible, the research community is developing microfluidic devices and lab-on-a-chip systems using PCB-compatible materials and processes, while initiatives are being taken to bridge the gap between microfluidics research community and the PCB industry (www.eipc.org/eipcevent/2016-workshop-pcb-bio-mems/, www.eipc.org/news-eipc-3/). This Special Issue will focus on original articles, reviews, and perspectives of the field in terms of fabrication technology, prototype devices and systems, design and simulation, commercialization challenges, and applications.

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