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Cutting-Edge Microfluidic Innovations: Materials, Design Mastery, and Transformative Applications

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Message from the Guest Editor

Microfluidics, a subject at the dynamic crossroads of physics, chemistry, engineering, and biology, has experienced a profound and transformative evolution in recent years. This SI will serve as a window into the vanguard of progress within this rapidly evolving discipline. Within the pages of these articles, our aim is to spotlight the cutting-edge of microfluidic technology, unveil revolutionary materials and design strategies, and elucidate their pioneering applications. These groundbreaking innovations are not only revolutionizing our capacity in the realms of diagnostics and drug delivery, but also expanding our abilities to minutely investigate the behaviors of cells, tissues, and organs under the influence of changing environmental factors. The profound impact of these applications is already tangible and is poised to continue reshaping the landscape of both research and industry. The fusion of these pivotal elements within microfluidics promises to propel scientific discovery and technological advancement in myriad ways, fueling innovation and progress in the scientific and industrial spheres alike.



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Special Issue



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Message from the Editor-in-Chief

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