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Optofluidics Fundamentals Devices And Applications

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Optofluidics: Fundamentals, Devices, and Applications ...

In contrast to the liquid crystal display, which is available for many years, most of the OOCs are being investigated and developed only in recent years, and are expected to lie at the center of the emerging field of optofluidics, with the vision of integrating variety of OOCs to form miniaturized, on-chip optofluidic systems with potential applications in medicine, biology and biotechnology, chemical synthesis and controlled reactions, signal processing, communication, imaging, projection ...

Optofluidics: Fundamentals, Devices, and Applications ...

This professional reference covers the emerging field of optofluidics, various devices, and a broad range of applications, including biomedical applications. Written by renowned researchers in the field of optical devices, Optofluidics covers currently available applications including optofluidic dye lasers, the optofluidic switch, tunable filters, electrowetting based lenses, and various biochemical sensors.

Optofluidics : fundamentals, devices, and applications ...

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Optofluidics has been applied to preconcentrate nanoparticles or bio/ chemical molecules to a desirable location for enhanced sensitivity. For example, centrifugal and electrokinetic forces can be used to accumulate analytes near the sensing spots [35,36]. Recently, a passive preconcentration method was developed without pressure-driven or electrokinetic-driven flow.

Optofluidics - ScienceDirect

Fundamentals and Applications of Microfluidics, Third Edition . By (author)s: ... micro-optofluidics and micro-magnetofluidics. ... Readers find discussions on a wide range of applications, including fluid control devices, gas and fluid measurement devices, medical testing equipment, and

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Optofluidics is a research and technology area that combines the advantages of microfluidics and optics. Applications of the technology include displays, biosensors, lab-on-chip devices, lenses, and molecular imaging tools and energy.

Optofluidics - Wikipedia

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