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Optofluidics Fundamentals Devices And Applications

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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 ...

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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.

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Co-written by industry experts, Optofluidics: Fundamentals, Devices, and Applications covers the latest functional integration of optical devices and microfluidics, as well as automation techniques.Á This authoritative guide explains how to fabricate optical lab-on-a-chip devices, synthesize photonic

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Mar 19, - Optofluidics is an emerging field that involves the use of fluids to modify optical properties and the use of optical devices to detect flowing media. Ultimately, its value is highly dependent on the successful integration of photonic integrated circuits with microfluidic or nanofluidic systems.

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Optofluidics integrates microfluidics or fluidic environments with photonics, and therefore, takes advantage of these two complementary technologies to achieve unprecedented capability in biochemical analysis, sample handling and manipulation, and flow control. In this chapter, we discuss the concept and various applications of optofluidics.

Optofluidics - ScienceDirect

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(PDF) Fundamentals and Applications of Microfluidics

Optofluidics: Fundamentals, Devices, and Applications (McGraw-Hill Biophotonics) Yang, Changhui, Psaltis, Demetri, Lee, Luke, Fainman, Yeshaiahu Published by McGraw-Hill Professional (2009)

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Sindy K.Y. Tang, George M. Whitesides, "Optical Components Based on Dynamic Liquid-liquid Interfaces", Book chdtry in "Optofluidics: Fundamentals, Devices, and Applications", McGraw-Hill 2009. link

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New Technical 6x9 /Technical / Optofluidics: Fundamentals, Devices, and Applications / Yeshaiahu Fainman / 0-07-160156-2 / Chapter 3 main channel. Depending on the application, this main channel can have different geometries (a straight channel of uniform width is shown in Fig. 3-1). To form and maintain the L2 interface, liquids are

CHAPTER Optical Components Based On Dynamic Liquid-Liquid ...

This book offers detailed coverage of the fundamentals, devices, systems, and applications of optofluidics. It is an excellent book for researchers and students from various disciplines to understand the emerging field of optofluidics, which will one day create breakthroughs in medical diagnostics.

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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.