

Open Microfluidics

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Open Microfluidics

Microfluidics refers to the flow of fluid in channels or networks with at least one dimension on the micron scale. In open microfluidics, also referred to as open surface microfluidics or open-space microfluidics, at least one boundary confining the fluid flow of a system is removed, exposing the fluid to air or another interface such as a second fluid.

Open microfluidics - Wikipedia

Open microfluidics or open-surface is becoming fundamental in scientific domains such as biotechnology, biology and space. First, such systems and devices based on open microfluidics make use of capillary forces to move fluids, without any need for external energy. Second, the "openness" of the flow facilitates the accessibility

Open Microfluidics | Wiley Online Books

A. deMello, and G. V. Kaigala., Open space diffusive filter for simultaneous species retrieval and separation, Analytical Chemistry , 2020. Read more I. Pereiro, A. F. Khartchenko and G. V. Kaigala, Shake it or flow it: Mass transport and kinetics in surface bioassays using agitation and microfluidics, Analytical Chemistry , 2020.

Open-Space Microfluidics

From a general point of view, open microfluidics is a general designation for liquids having one interface with air . There is a wide diversity in this family. It encompasses droplets pierced by wires [6], liquid bridges, and liquid spreading between rails and inside grooves [1].

Chapter 8: Open Microfluidics - The Physics of ...

Open microfluidics or open-surface is becoming fundamental in scientific domains such as biotechnology, biology and space. First, such systems and devices based on open microfluidics make use of capillary forces to move fluids, without any need for external energy.

Open Microfluidics | Bioinstrumentation & Biosensors ...

Open microfluidic capillary systems are a rapidly evolving branch of microfluidics where fluids are manipulated by capillary forces in channels lacking physical walls on all sides. Typical channel geometries include grooves, rails, or beams and complex systems with multiple air-liquid interfaces.

Open Microfluidic Capillary Systems | Analytical Chemistry

INTRODUCTION. Open microfluidics has been defined as a microfluidic system with at least one solid boundary confining the fluid removed, exposing the fluid either to air (i.e., single liquid phase) or a second fluid (i.e., multiliquid phase) (1-5).Here, we further focus on open microfluidic systems with only a single planar nonfluid boundary (i.e., fluidic manipulations on a flat solid surface).

Under oil open-channel microfluidics empowered by ...

Open space microfluidics: technologies Scanning probes for localizing liquids on surfaces Techniques to study, work and locally probe adherent cells & tissues at micrometer distances from cell surfaces in "open space" would represent a major advance for the biology of biointerfaces.

Projects - Open-Space Microfluidics

Another advantage of open microfluidics is the ability to integrate open systems with surface-tension driven fluid flow, which eliminates the need for external pumping methods such as peristaltic or syringe pumps. Open microfluidic devices are also easy and inexpensive to fabricate by milling, thermoforming, and hot embossing.

Microfluidics - Wikipedia

Open microfluidic systems offer unique advantages, creating platforms that provide increased accessibility, robustness, functionality, and simplicity of fabrication. An inherent feature of these systems is the introduction of an air-liquid interface , a component that makes understanding and characterizing fluid flows in these systems complex.

Suspended microfluidics | PNAS

Description. Open microfluidics or open-surface is becoming fundamental in scientific domains such as biotechnology, biology and outer space. First, such systems and devices based on open microfluidics make use of capillary forces to move fluids, without any need for external energy. Second, the "openness" of the flow facilitates the accessibility ...

Scrivener Publishing: Open Microfluidics

He is currently leading activities on liquid-based non-contact scanning technologies - microfluidic probe - and is championing concepts on "microfluidics in the open space" and "tissue microprocessing". These research activities are driven by specific needs in the fields of pathology and personalized medicine.

Open-Space Microfluidics | Wiley Online Books

Open microfluidics or open-surface is becoming fundamental in scientific domains such as biotechnology, biology and space. First, such systems and devices based on open microfluidics make use of ...

Open Microfluidics | Request PDF - ResearchGate

Microfluidic devices have the potential to automate and miniaturize biological experiments, but open-source sharing of device designs has lagged behind sharing of other resources such as software. Synthetic biologists have used microfluidics for DNA assembly, cell-free expression, and cell culture, but a combination of expense, device complexity, and reliance on custom set-ups hampers their widespread adoption.

Microfluidics - Open Source Ecology

Open microfluidics or open-surface is becoming fundamental in scientific domains such as biotechnology, biology and space. First, such systems and devices based on open microfluidics make use of capillary forces to move fluids, without any need for external energy.

Open Microfluidics: 9781118720806: Medicine & Health ...

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A new MIT-designed open-source website might well be the Pinterest of microfluidics. The site, Metafluidics.org, is a free repository of designs for lab-on-a-chip devices, submitted by all sorts of inventors, including trained scientists and engineers, hobbyists, students, and amateur makers.

Microfluidics for the masses | MIT News | Massachusetts ...

Open channel microfluidics July 10, 2019 Written by John Crabtree An interesting article from Ashleigh Th berge's group at the University of Washington reviews the relatively recent introduction of open capillary microfluidic systems (as distinct from electrowetted digital microfluidics).