1. Record Nr. UNINA9910598031603321

Titolo	Advances in Optofluidics / / edited by Xuming Zhang
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , [2018] ©2018
Descrizione fisica	1 online resource (148 pages)
Disciplina	621.36
Soggetti	Optofluidics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	About the Special Issue Editor -- Editorial for the Special Issue on Advances in Optofluidics -- Light Manipulation in Inhomogeneous Liquid Flow and Its Application in Biochemical Sensing -- Optofluidic Tunable Lenses for In-Plane Light Manipulation -- Optofluidics Refractometers -- Optofluidic Technology for Water Quality Monitoring -- High-Throughput Optofluidic Acquisition of Microdroplets in Microfluidic Systems -- Passive Mixing inside Microdroplets -- Advances of Optofluidic Microcavities for Microlasers and Biosensors -- Optofluidics in Microstructured Optical Fibers -- Optofluid-Based Reflective Displays.
Sommario/riassunto	Optofluidics a niche research field that integrates optics with microfluidics. It started with elegant demonstrations of the passive interaction of light and liquid media such as liquid waveguides and liquid tunable lenses. Recently, the optofluidics continues the advance in liquid-based optical devices/systems. In addition, it has expanded rapidly into many other fields that involve lightwave (or photon) and liquid media. This Special Issue invites review articles (only review articles) that update the latest progress of the optofluidics in various aspects, such as new functional devices, new integrated systems, new fabrication techniques, new applications, etc. It covers, but is not limited to, topics such as micro-optics in liquid media, optofluidic sensors, integrated micro-optical systems, displays, optofluidics-on-fibers.