Yves Fouillet

List of Publications by Year
in descending order

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28 papers	1,076 citations	430874 18 h-index	526287 27 g-index
30 all docs	30 docs citations	30 times ranked	1289 citing authors

#	Article	IF	Citations
1	Ionic Liquid Droplet as e-Microreactor. Analytical Chemistry, 2006, 78, 4909-4917.	6.5	150
2	Actuation potentials and capillary forces in electrowetting based microsystems. Sensors and Actuators A: Physical, 2007, 134, 471-479.	4.1	123
3	Passive microfluidic devices for plasma extraction from whole human blood. Sensors and Actuators B: Chemical, 2009, 141, 617-624.	7.8	107
4	Digital microfluidic design and optimization of classic and new fluidic functions for lab on a chip systems. Microfluidics and Nanofluidics, 2008, 4, 159-165.	2.2	103
5	Fast and continuous plasma extraction from whole human blood based on expanding cell-free layer devices. Biomedical Microdevices, 2010, 12, 485-497.	2.8	85
6	A low voltage silicon micro-pump based on piezoelectric thin films. Sensors and Actuators A: Physical, 2016, 250, 35-39.	4.1	69
7	Dynamics of droplet transport induced by electrowetting actuation. Microfluidics and Nanofluidics, 2008, 4, 287-294.	2.2	66
8	Rotating flow within a droplet actuated with AC EWOD. Sensors and Actuators B: Chemical, 2011, 154, 191-198.	7.8	44
9	3D droplet displacement in microfluidic systems by electrostatic actuation. Sensors and Actuators A: Physical, 2007, 134, 486-493.	4.1	38
10	Macro to microfluidics system for biological environmental monitoring. Biosensors and Bioelectronics, 2012, 36, 230-235.	10.1	34
11	Optimization of Liquid DiElectroPhoresis (LDEP) Digital Microfluidic Transduction for Biomedical Applications. Micromachines, 2011, 2, 258-273.	2.9	26
12	Coplanar electrowetting-induced stirring as a tool to manipulate biological samples in lubricated digital microfluidics. Impact of ambient phase on drop internal flow pattern. Biomicrofluidics, 2013, 7, 044104.	2.4	22
13	Separation of Biological Particles in a Modular Platform of Cascaded Deterministic Lateral Displacement Modules. Scientific Reports, 2018, 8, 17762.	3.3	22
14	A novel volumetric silicon micropump with integrated sensors. Microelectronic Engineering, 2012, 97, 375-378.	2.4	19
15	Multi-step microfluidic system for blood plasma separation: architecture and separation efficiency. Microfluidics and Nanofluidics, 2014, 17, 167-180.	2.2	19
16	Using electrofluidic devices as hyper-elastic strain sensors: Experimental and theoretical analysis. Microelectronic Engineering, 2015, 144, 27-31.	2.4	19
17	Enrichment of nanoparticles and bacteria using electroless and manual actuation modes of a bypass nanofluidic device. Lab on A Chip, 2013, 13, 4476.	6.0	18
18	A programmable and reconfigurable microfluidic chip. Lab on A Chip, 2013, 13, 4517.	6.0	17

#	Article	IF	Citations
19	Stretchable Material for Microfluidic Applications. Proceedings (mdpi), 2017, 1, .	0.2	13
20	Fabrication of a hybrid plastic-silicon microfluidic device for high-throughput genotyping. , 2003, , .		8
21	A Silicon Micropump with On-Chip Flow Meter. Procedia Engineering, 2012, 47, 314-317.	1.2	8
22	Rotating flow within a droplet actuated with AC EWOD. Procedia Chemistry, 2009, 1, 1107-1110.	0.7	7
23	DÃ©placement de gouttes sur un microcatÃ©naire. Houille Blanche, 2003, 89, 37-42.	0.3	6
24	EWOD in Coplanar Electrode Configurations. , 2010, , .		5
25	Programmable LDEP technology to fabricate versatile master molds for PDMS continuous-flow microfluidic applications. Microfluidics and Nanofluidics, 2014, 16, 701-710.	2.2	4
26	EWOD-based chip characterization under AC voltage. Microelectronic Engineering, 2011, 88, 1745-1748.	2.4	2
27	Alternative method for local surface functionalization using liquid dielectrophoresis: An application with polyethyleneimine polymer for bacteria trapping onto a surface. RSC Advances, 2013, 3, 9214.	3.6	1
28	Foam-based microfluidics: experiments and modeling with lumped elements. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	1