Jasmina Casals TerrÃ©

List of Publications by Year
in descending order

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43	634	759233	610901
papers	citations	12 h-index	24 g-index

46	46	46	794
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Snap-Action Bistable Micromechanisms Actuated by Nonlinear Resonance. Journal of Microelectromechanical Systems, 2008, 17, 1082-1093.	2.5	80
2	Hydrodynamic and direct-current insulator-based dielectrophoresis (H-DC-iDEP) microfluidic blood plasma separation. Analytical and Bioanalytical Chemistry, 2015, 407, 4733-4744.	3.7	71
3	Resonant Pull-In Condition in Parallel-Plate Electrostatic Actuators. Journal of Microelectromechanical Systems, 2007, 16, 1044-1053.	2.5	64
4	Self-driven filter-based blood plasma separator microfluidic chip for point-of-care testing. Biofabrication, 2015, 7, 025007.	7.1	50
5	Microfluidic point-of-care blood panel based on a novel technique: Reversible electroosmotic flow. Biomicrofluidics, 2015, 9, 054106.	2.4	38
6	Design, fabrication and characterization of an externally actuated ON/OFF microvalve. Sensors and Actuators A: Physical, 2008, 147, 600-606.	4.1	31
7	Novel Variable Radius Spiralâ€“Shaped Micromixer: From Numerical Analysis to Experimental Validation. Micromachines, 2018, 9, 552.	2.9	27
8	Advancements in Microfabricated Gas Sensors and Microanalytical Tools for the Sensitive and Selective Detection of Odors. Sensors, 2020, 20, 5478.	3.8	27
9	A new approach to design an efficient micropost array for enhanced direct-current insulator-based dielectrophoretic trapping. Analytical and Bioanalytical Chemistry, 2016, 408, 5285-5294.	3.7	26
10	Long-term behavior of nonionic surfactant-added PDMS for self-driven microchips. Microsystem Technologies, 2013, 19, 143-150.	2.0	16
11	A passive portable microfluidic bloodâ€“plasma separator for simultaneous determination of direct and indirect ABO/Rh blood typing. Lab on A Chip, 2019, 19, 3249-3260.	6.0	14
12	A novel fabrication technique to minimize poly(dimethylsiloxane)â€microchannels deformation under highâ€pressure operation. Electrophoresis, 2013, 34, 3126-3132.	2.4	13
13	Enhanced fully cellulose based forward and reverse blood typing assay. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 439-450.	3.4	13
14	Dynamic analysis of a snap-action micromechanism. , 0, , .		11
15	The use of rapid prototyping techniques (RPT) to manufacture micro channels suitable for high operation pressures and Î¼PIV. Rapid Prototyping Journal, 2016, 22, 67-76.	3.2	11
16	Snap-Action Bistable Micromechanism Actuated by Nonlinear Resonance. , 0, , .		10
17	A Low-Power-Consumption Out-of-Plane Electrothermal Actuator. Journal of Microelectromechanical Systems, 2007, 16, 719-727.	2.5	10
18	Design and characterization of a magnetic digital flow regulator. Sensors and Actuators A: Physical, 2010, 162, 107-115.	4.1	10

#	Article	IF	Citations
19	Kâ€band RFâ€MEMS uniplanar reconfigurableâ€bandwidth bandpass filter using multimodal immittance inverters. Electronics Letters, 2013, 49, 704-706.	1.0	10
20	Recent Impact of Microfluidics on Skin Models for Perspiration Simulation. Membranes, 2021, 11, 150.	3.0	10
21	High-throughput microcapillary pump with efficient integrated low aspect ratio micropillars. Microfluidics and Nanofluidics, 2014, 17, 115-130.	2.2	8
22	Hemostasis-On-a-Chip: Impedance Spectroscopy Meets Microfluidics for Hemostasis Evaluation. Micromachines, 2019, 10, 534.	2.9	8
23	Novel applications of nonwood cellulose for blood typing assays. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1533-1541.	3.4	8
24	Numerical and experimental analysis of a high-throughput blood plasma separator for point-of-care applications. Analytical and Bioanalytical Chemistry, 2021, 413, 2867-2878.	3.7	8
25	A Ku-band RF-MEMS frequency-reconfigurable multimodal bandpass filter. International Journal of Microwave and Wireless Technologies, 2014, 6, 277-285.	1.9	7
26	Grease flow in an elbow channel. Tribology Letters, 2015, 57, 1.	2.6	7
27	Contaminant Particle Motion in Lubricating Grease Flow: A Computational Fluid Dynamics Approach. Lubricants, 2018, 6, 10.	2.9	6
28	Analytical Energy Model for the Dynamic Behavior of RF MEMS Switches Under Increased Actuation Voltage. Journal of Microelectromechanical Systems, 2014, 23, 1428-1439.	2.5	5
29	Cost-effective microfabrication of sub-micron-depth channels by femto-laser anti-stiction texturing. Biofabrication, 2020, 12, 025021.	7.1	5
30	Portable 3D-printed sensor to measure ionic strength and pH in buffered and non-buffered solutions. Food Chemistry, 2021, 344, 128583.	8.2	5
31	On the Flow Dynamics of Polymer Greases. Lubricants, 2022, 10, 66.	2.9	5
32	RF-MEMS Switches Designed for High-Performance Uniplanar Microwave and mm-Wave Circuits. , 2018, , .		4
33	Flow Control in Porous Media: From Numerical Analysis to Quantitative Î¼PAD for Ionic Strength Measurements. Sensors, 2021, 21, 3328.	3.8	4
34	New method for lubricating wind turbine pitch gears using embedded micro-nozzles. Journal of Mechanical Science and Technology, 2017, 31, 797-806.	1.5	3
35	REPlicating RAPid Microfluidics: Self-Replicating Printer for Hydrophobic Pattern Deposition. 3D Printing and Additive Manufacturing, 2017, 4, 231-238.	2.9	3
36	Magnetically actuated microvalve for disposable drug infusor. , 2007, , .		2

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37	RF-MEMS switches for a full control of the propagating modes in uniplanar microwave circuits and their application to reconfigurable multimodal microwave filters. Microsystem Technologies, 2017, 23, 5959-5975.	2.0	2
38	Study the Effects of Different Surfactants on Hydrophilicity of Polydimethylsiloxane (PDMS). , 2012, , .		1
39	Study with Stainless Steel AISI 630 of Tool Wear in External Turning Operations. Materials Science Forum, 2006, 526, 205-210.	0.3	0
40	Analysis of the Behaviour Effect of Face Cutting Edge Inserts on Surface Roughness when Milling Steels with MQL Lubrication. Materials Science Forum, 2006, 526, 25-30.	0.3	0
41	Optimization of Variable Radius Spiral Micromixer. Proceedings (mdpi), 2017, 1, .	0.2	0
42	Microfluidic Enabled Portable ABO Reverse Typing Sensor. Proceedings (mdpi), 2017, 1, 756.	0.2	0
43	Microfluidics and MEMS Technology for Membranes. Membranes, 2022, 12, 586.	3.0	0