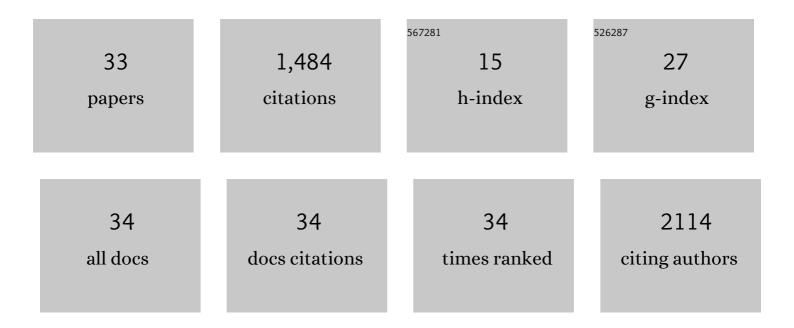
Francisco Javier Tovar-LÃ³pez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Extremely Sensitive Microwave Microfluidic Dielectric Sensor Using a Transmission Line Loaded with Shunt LC Resonators. Sensors, 2021, 21, 6811.	3.8	26
2	Microwave Microfluidic Sensor for Detecting Heavy Metal Pollution in Water. , 2021, , .		1
3	Differential microwave sensor for characterization of glycerol–water solutions. Sensors and Actuators B: Chemical, 2020, 321, 128561.	7.8	71
4	Magnetic actuation and deformation of a soft shuttle. Biomicrofluidics, 2020, 14, 034103.	2.4	2
5	Droplet on Soft Shuttle: Electrowetting-on-Dielectric Actuation of Small Droplets. ACS Applied Materials & Interfaces, 2019, 11, 39283-39291.	8.0	16
6	Meta-atom microfluidic sensor for measurement of dielectric properties of liquids. Journal of Applied Physics, 2017, 121, .	2.5	44
7	Application of a strain rate gradient microfluidic device to von Willebrand's disease screening. Lab on A Chip, 2017, 17, 2595-2608.	6.0	17
8	Dynamic drag force based on iterative density mapping: A new numerical tool for threeâ€dimensional analysis of particle trajectories in a dielectrophoretic system. Electrophoresis, 2016, 37, 645-657.	2.4	4
9	Hydrodynamic directional control of liquid metal droplets within a microfluidic flow focusing system. Applied Physics Letters, 2016, 108, 164101.	3.3	24
10	Shear stress mediates exocytosis of functional TRPV4 channels in endothelial cells. Cellular and Molecular Life Sciences, 2016, 73, 649-666.	5.4	70
11	Nonlinear Dynamic Modelling of Platelet Aggregation via Microfluidic Devices. IEEE Transactions on Biomedical Engineering, 2015, 62, 1718-1727.	4.2	11
12	Continuous transfer of liquid metal droplets across a fluid–fluid interface within an integrated microfluidic chip. Lab on A Chip, 2015, 15, 2476-2485.	6.0	43
13	Examination of the role of transient receptor potential vanilloid type 4 in endothelial responses to shear forces. Biomicrofluidics, 2014, 8, 044117.	2.4	36
14	A hydrodynamic microchip for formation of continuous cell chains. Applied Physics Letters, 2014, 104, 203701.	3.3	3
15	Design, characterization and application of a novel mono-layer pin-microvalve for microfluidic devices. RSC Advances, 2014, 4, 24394-24398.	3.6	1
16	A Multimode-TIRFM and Microfluidic Technique to Examine Platelet Adhesion Dynamics. Methods in Molecular Biology, 2013, 1046, 39-58.	0.9	8
17	A novel Surface Tension Assisted Lithography (STAL) technique for microfabrication of 3D structures. Journal of Materials Chemistry C, 2013, 1, 401-405.	5.5	4
18	A microfluidic platform to study the mechano sensational properties of ion channels. Proceedings of SPIE, 2013	0.8	0

#	Article	IF	CITATIONS
19	Dielectrophoresis with 3D microelectrodes fabricated by surface tension assisted lithography. Electrophoresis, 2013, 34, 3150-3154.	2.4	11
20	Regulation of dynamic platelet aggregation in response to shear rate micro-gradients in a microfluidics device applying switching control. , 2013, , .		0
21	An Investigation on Platelet Transport during Thrombus Formation at Micro-Scale Stenosis. PLoS ONE, 2013, 8, e74123.	2.5	36
22	On-chip separation of Lactobacillus bacteria from yeasts using dielectrophoresis. Microfluidics and Nanofluidics, 2012, 12, 597-606.	2.2	47
23	Dielectrophoresis of micro/nano particles using curved microelectrodes. Proceedings of SPIE, 2011, , .	0.8	1
24	Structural and hydrodynamic simulation of an acute stenosis-dependent thrombosis model in mice. Journal of Biomechanics, 2011, 44, 1031-1039.	2.1	11
25	Dielectrophoretic-activated cell sorter based on curved microelectrodes. Microfluidics and Nanofluidics, 2010, 9, 411-426.	2.2	51
26	Particle trapping using dielectrophoretically patterned carbon nanotubes. Electrophoresis, 2010, 31, 1366-1375.	2.4	24
27	A microfluidics device to monitor platelet aggregation dynamics in response to strain rate micro-gradients in flowing blood. Lab on A Chip, 2010, 10, 291-302.	6.0	114
28	Size based separation of microparticles using a dielectrophoretic activated system. Journal of Applied Physics, 2010, 108, 034904.	2.5	34
29	Dielectrophoretic manipulation and separation of microparticles using curved microelectrodes. Electrophoresis, 2009, 30, 3707-3717.	2.4	62
30	A shear gradient–dependent platelet aggregation mechanism drives thrombus formation. Nature Medicine, 2009, 15, 665-673.	30.7	712
31	Characterization of high fluid strain micro contractions to study the stress on biological fluids. Proceedings of SPIE, 2008, , .	0.8	0
32	Hydrodynamic flow focusing to study the isolated effects of the flow components. , 2008, , .		0
33	Characterization of flows in micro contractions using micro PIV and CFD to study the protein aggregation process. Proceedings of SPIE, 2007, , .	0.8	0