

Francisco Javier Tovar-López

List of Publications by Year in descending order

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33
papers

1,484
citations

567281

15
h-index

526287

27
g-index

34
all docs

34
docs citations

34
times ranked

2114
citing authors

#	ARTICLE	IF	CITATIONS
1	A shear gradientâ€“dependent platelet aggregation mechanism drives thrombus formation. <i>Nature Medicine</i> , 2009, 15, 665-673.	30.7	712
2	A microfluidics device to monitor platelet aggregation dynamics in response to strain rate micro-gradients in flowing blood. <i>Lab on A Chip</i> , 2010, 10, 291-302.	6.0	114
3	Differential microwave sensor for characterization of glycerolâ€“water solutions. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128561.	7.8	71
4	Shear stress mediates exocytosis of functional TRPV4 channels in endothelial cells. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 649-666.	5.4	70
5	Dielectrophoretic manipulation and separation of microparticles using curved microelectrodes. <i>Electrophoresis</i> , 2009, 30, 3707-3717.	2.4	62
6	Dielectrophoretic-activated cell sorter based on curved microelectrodes. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 411-426.	2.2	51
7	On-chip separation of <i>Lactobacillus</i> bacteria from yeasts using dielectrophoresis. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 597-606.	2.2	47
8	Meta-atom microfluidic sensor for measurement of dielectric properties of liquids. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	44
9	Continuous transfer of liquid metal droplets across a fluidâ€“fluid interface within an integrated microfluidic chip. <i>Lab on A Chip</i> , 2015, 15, 2476-2485.	6.0	43
10	An Investigation on Platelet Transport during Thrombus Formation at Micro-Scale Stenosis. <i>PLoS ONE</i> , 2013, 8, e74123.	2.5	36
11	Examination of the role of transient receptor potential vanilloid type 4 in endothelial responses to shear forces. <i>Biomicrofluidics</i> , 2014, 8, 044117.	2.4	36
12	Size based separation of microparticles using a dielectrophoretic activated system. <i>Journal of Applied Physics</i> , 2010, 108, 034904.	2.5	34
13	Extremely Sensitive Microwave Microfluidic Dielectric Sensor Using a Transmission Line Loaded with Shunt LC Resonators. <i>Sensors</i> , 2021, 21, 6811.	3.8	26
14	Particle trapping using dielectrophoretically patterned carbon nanotubes. <i>Electrophoresis</i> , 2010, 31, 1366-1375.	2.4	24
15	Hydrodynamic directional control of liquid metal droplets within a microfluidic flow focusing system. <i>Applied Physics Letters</i> , 2016, 108, 164101.	3.3	24
16	Application of a strain rate gradient microfluidic device to von Willebrand's disease screening. <i>Lab on A Chip</i> , 2017, 17, 2595-2608.	6.0	17
17	Droplet on Soft Shuttle: Electrowetting-on-Dielectric Actuation of Small Droplets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39283-39291.	8.0	16
18	Structural and hydrodynamic simulation of an acute stenosis-dependent thrombosis model in mice. <i>Journal of Biomechanics</i> , 2011, 44, 1031-1039.	2.1	11

#	ARTICLE	IF	CITATIONS
19	Dielectrophoresis with 3D microelectrodes fabricated by surface tension assisted lithography. <i>Electrophoresis</i> , 2013, 34, 3150-3154.	2.4	11
20	Nonlinear Dynamic Modelling of Platelet Aggregation via Microfluidic Devices. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1718-1727.	4.2	11
21	A Multimode-TIRFM and Microfluidic Technique to Examine Platelet Adhesion Dynamics. <i>Methods in Molecular Biology</i> , 2013, 1046, 39-58.	0.9	8
22	A novel Surface Tension Assisted Lithography (STAL) technique for microfabrication of 3D structures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 401-405.	5.5	4
23	Dynamic drag force based on iterative density mapping: A new numerical tool for three-dimensional analysis of particle trajectories in a dielectrophoretic system. <i>Electrophoresis</i> , 2016, 37, 645-657.	2.4	4
24	A hydrodynamic microchip for formation of continuous cell chains. <i>Applied Physics Letters</i> , 2014, 104, 203701.	3.3	3
25	Magnetic actuation and deformation of a soft shuttle. <i>Biomicrofluidics</i> , 2020, 14, 034103.	2.4	2
26	Dielectrophoresis of micro/nano particles using curved microelectrodes. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
27	Design, characterization and application of a novel mono-layer pin-microvalve for microfluidic devices. <i>RSC Advances</i> , 2014, 4, 24394-24398.	3.6	1
28	Microwave Microfluidic Sensor for Detecting Heavy Metal Pollution in Water. , 2021, , .		1
29	Characterization of flows in micro contractions using micro PIV and CFD to study the protein aggregation process. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
30	Characterization of high fluid strain micro contractions to study the stress on biological fluids. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
31	Hydrodynamic flow focusing to study the isolated effects of the flow components. , 2008, , .		0
32	A microfluidic platform to study the mechano sensational properties of ion channels. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
33	Regulation of dynamic platelet aggregation in response to shear rate micro-gradients in a microfluidics device applying switching control. , 2013, , .		0