Emilio JosÃ© Vega RodrÃguez

List of Publications by Year
in descending order

		516710	552781
41 papers	740 citations	16 h-index	26 g-index
41 all docs	41 docs citations	41 times ranked	673 citing authors

#	Article	IF	Citations
1	Unexpected stability of micrometer weakly viscoelastic jets. Physics of Fluids, 2022, 34, .	4.0	4
2	Viscoelastic transition in transonic flow focusing. Physical Review Fluids, 2022, 7, .	2.5	3
3	Fire-Shaped Nozzles to Produce a Stress Peak for Deformability Studies. Polymers, 2022, 14, 2784.	4.5	1
4	Electrical Conductivity of a Stretching Viscoelastic Filament. Materials, 2021, 14, 1294.	2.9	1
5	Blood Particulate Analogue Fluids: A Review. Materials, 2021, 14, 2451.	2.9	20
6	Experimental Analysis of the Extensional Flow of Very Weakly Viscoelastic Polymer Solutions. Materials, 2020, 13, 192.	2.9	7
7	Fast, flexible and low-cost multiphase blood analogue for biomedical and energy applications. Experiments in Fluids, 2020, 61, 1.	2.4	14
8	Breakup of an electrified viscoelastic liquid bridge. Physical Review E, 2020, 102, 033103.	2.1	6
9	A simple emulsification technique for the production of micro-sized flexible powder of polydimethylsiloxane (PDMS). Powder Technology, 2020, 366, 610-616.	4.2	12
10	Gaseous flow focusing for spinning micro and nanofibers. Polymer, 2019, 178, 121623.	3.8	12
11	Fire-shaped cylindrical glass micronozzles to measure cell deformability. Journal of Micromechanics and Microengineering, 2019, 29, 105001.	2.6	9
12	Flexible PDMS microparticles to mimic RBCs in blood particulate analogue fluids. Mechanics Research Communications, 2019, 100, 103399.	1.8	29
13	Magnetic PDMS Microparticles for Biomedical and Energy Applications. Lecture Notes in Computational Vision and Biomechanics, 2019, , 578-584.	0.5	2
14	Complex behavior very close to the pinching of a liquid free surface. Physical Review Fluids, 2019, 4, .	2.5	10
15	Shrinkage and colour in the production of micro-sized PDMS particles for microfluidic applications. Journal of Micromechanics and Microengineering, 2018, 28, 075002.	2.6	13
16	Stabilization of axisymmetric liquid bridges through vibration-induced pressure fields. Journal of Colloid and Interface Science, 2018, 513, 409-417.	9.4	9
17	Influence of the Surface Viscosity on the Breakup of a Surfactant-Laden Drop. Physical Review Letters, 2017, 118, 024501.	7.8	49
18	Suppressing prompt splash with polymer additives. Experiments in Fluids, 2017, 58, 1.	2.4	25

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19	Smooth printing of viscoelastic microfilms with a flow focusing ejector. Journal of Non-Newtonian Fluid Mechanics, 2017, 249, 1-7.	2.4	10
20	Measurement of relaxation times in extensional flow of weakly viscoelastic polymer solutions. Rheologica Acta, 2017, 56, 11-20.	2.4	57
21	The effects of ambient impurities on the surface tension. EPJ Web of Conferences, 2016, 114, 02098.	0.3	8
22	Generation of micro-sized PDMS particles by a flow focusing technique for biomicrofluidics applications. Biomicrofluidics, 2016, 10, 014122.	2.4	34
23	Effects of surface-active impurities on the liquid bridge dynamics. Experiments in Fluids, 2016, 57, 1.	2.4	15
24	The production of viscoelastic capillary jets with gaseous flow focusing. Journal of Non-Newtonian Fluid Mechanics, 2016, 229, 8-15.	2.4	13
25	Dynamics of an axisymmetric liquid bridge close to the minimum-volume stability limit. Physical Review E, 2014, 90, 013015.	2.1	22
26	A novel technique to produce metallic microdrops for additive manufacturing. International Journal of Advanced Manufacturing Technology, 2014, 70, 1395-1402.	3.0	22
27	An experimental technique to produce micrometer waves on a cylindrical sub-millimeter free surface. Measurement Science and Technology, 2014, 25, 075303.	2.6	2
28	Production of microbubbles from axisymmetric flow focusing in the jetting regime for moderate Reynolds numbers. Physical Review E, 2014, 89, 063012.	2.1	12
29	A new flow focusing technique to produce very thin jets. Journal of Micromechanics and Microengineering, 2013, 23, 065009.	2.6	26
30	A novel technique for producing metallic microjets and microdrops. Microfluidics and Nanofluidics, 2013, 14, 101-111.	2.2	13
31	An experimental setup for the study of the steady air flow in a diesel engine chamber. EPJ Web of Conferences, 2012, 25, 01014.	0.3	1
32	Numerical simulation of electrospray in the cone-jet mode. Physical Review E, 2012, 86, 026305.	2.1	75
33	An experimental technique to measure the capillary waves in electrified microjets. EPJ Web of Conferences, 2012, 25, 01097.	0.3	0
34	Exploring the precision of backlight optical imaging in microfluidics close to the diffraction limit. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1300-1311.	5.0	27
35	On the validity of a universal solution for viscous capillary jets. Physics of Fluids, 2011, 23, .	4.0	15
36	Numerical simulation of a liquid bridge in a coaxial gas flow. Physics of Fluids, 2011, 23, .	4.0	24

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37	Global and local instability of flow focusing: The influence of the geometry. Physics of Fluids, 2010, 22, .	4.0	72
38	Micrometer glass nozzles for flow focusing. Journal of Micromechanics and Microengineering, 2010, 20, 075035.	2.6	22
39	Damping of linear oscillations in axisymmetric liquid bridges. Physics of Fluids, 2009, 21, .	4.0	17
40	On the precision of optical imaging to study free surface dynamics at high frame rates. Experiments in Fluids, 2009, 47, 251-261.	2.4	19
41	Sub-micrometer precision of optical imaging to locate the free surface of a micrometer fluid shape. Journal of Colloid and Interface Science, 2009, 339, 271-274.	9.4	8