Ignacio G Loscertales

List of Publications by Year
in descending order

39 papers	4,588 citations	361296 20 h-index	360920 35 g-index
40 all docs	40 docs citations	40 times ranked	3819 citing authors

#	Article	IF	Citations
1	Micro/Nano Encapsulation via Electrified Coaxial Liquid Jets. Science, 2002, 295, 1695-1698.	6.0	960
2	The current emitted by highly conducting Taylor cones. Journal of Fluid Mechanics, 1994, 260, 155-184.	1.4	875
3	Electrically Forced Coaxial Nanojets for One-Step Hollow Nanofiber Design. Journal of the American Chemical Society, 2004, 126, 5376-5377.	6.6	312
4	A Method for Making Inorganic and Hybrid (Organic/Inorganic) Fibers and Vesicles with Diameters in the Submicrometer and Micrometer Range via Solâ^'Gel Chemistry and Electrically Forced Liquid Jets. Journal of the American Chemical Society, 2003, 125, 1154-1155.	6.6	274
5	The production of submicron diameter carbon fibers by the electrospinning of lignin. Carbon, 2010, 48, 696-705.	5.4	240
6	Filled and Hollow Carbon Nanofibers by Coaxial Electrospinning of Alcell Lignin without Binder Polymers. Advanced Materials, 2007, 19, 4292-4296.	11.1	217
7	Micro- and Nanoparticles via Capillary Flows. Annual Review of Fluid Mechanics, 2007, 39, 89-106.	10.8	187
8	Electrosprays in the cone-jet mode: From Taylor cone formation to spray development. Journal of Aerosol Science, 2018, 125, 2-31.	1.8	180
9	Multiple electrosprays emitted from an array of holes. Journal of Aerosol Science, 2005, 36, 1387-1399.	1.8	171
10	Coaxial jets generated from electrified Taylor cones. Scaling laws. Journal of Aerosol Science, 2003, 34, 535-552.	1.8	170
11	Controlled Encapsulation of Hydrophobic Liquids in Hydrophilic Polymer Nanofibers by Co-electrospinning. Advanced Functional Materials, 2006, 16, 2110-2116.	7.8	153
12	Experiments on the kinetics of field evaporation of small ions from droplets. Journal of Chemical Physics, 1995, 103, 5041-5060.	1.2	150
13	Sizing nanoparticles and ions with a short differential mobility analyzer. Journal of Aerosol Science, 1996, 27, 695-719.	1.8	139
14	An experimental study of the electrospraying of water in air at atmospheric pressure. Journal of the American Society for Mass Spectrometry, 2004, 15, 253-259.	1.2	78
15	Simple and Double Emulsions via Coaxial Jet Electrosprays. Physical Review Letters, 2007, 98, 014502.	2.9	73
16	Electrospinning of hollow and core/sheath nanofibers using a microfluidic manifold. Microfluidics and Nanofluidics, 2008, 4, 245-250.	1.0	64
17	Steady cone-jet electrosprays in liquid insulator baths. Journal of Colloid and Interface Science, 2004, 272, 104-108.	5.0	62
18	Methanol decomposition on electrospun zirconia nanofibers. Catalysis Today, 2012, 187, 77-87.	2.2	58

#	Article	IF	Citations
19	Whipping instability characterization of an electrified visco-capillary jet. Journal of Fluid Mechanics, 2011, 671, 226-253.	1.4	52
20	Production of Cocoa Butter Microcapsules Using an Electrospray Process. Journal of Food Science, 2005, 70, e492.	1.5	44
21	Drift differential mobility analyzer. Journal of Aerosol Science, 1998, 29, 1117-1139.	1.8	22
22	Absorption Properties of Microgelâ€PVP Composite Nanofibers Made by Electrospinning. Macromolecular Rapid Communications, 2010, 31, 183-189.	2.0	19
23	Surface tension effects on submerged electrosprays. Biomicrofluidics, 2012, 6, 44104.	1.2	16
24	Pulsating emission of droplets from an electrified meniscus. Journal of Aerosol Science, 2013, 66, 193-208.	1.8	11
25	Electrospinning of silica sub-microtubes mats with platinum nanoparticles for NO catalytic reduction. Applied Catalysis B: Environmental, 2014, 156-157, 15-24.	10.8	11
26	Encapsulation and suspension of hydrophobic liquids via electro-hydrodynamics. Biotechnology Journal, 2006, 1, 963-968.	1.8	8
27	MASS DIAMETER VERSUS AERODYNAMIC DIAMETER OF NANOPARTICLES. IMPLICATIONS ON THE CALIBRATION CURVE OF AN INERTIAL IMPACTOR. Journal of Aerosol Science, 2000, 31, 923-932.	1.8	7
28	Conical tips inside cone-jet electrosprays. Physics of Fluids, 2008, 20, 042102.	1.6	7
29	Electrospray technique to produce fine sprays of desiccant liquids. Application to moisture removal from air. Energy and Buildings, 2018, 162, 187-197.	3.1	7
30	Grafting electrosprayed silica microspheres on cellulosic textile via cyanuric chloride reactive groups. Journal of Experimental Nanoscience, 2015, 10, 868-879.	1.3	6
31	Coaxial Electrospinning for Nanostructured Advanced Materials. Materials Research Society Symposia Proceedings, 2006, 948, 1.	0.1	5
32	Modelling the electric microdripping from a needle. Journal of Fluid Mechanics, 2021, 920, .	1.4	4
33	Production of complex nano-structures by electro-hydro-dynamics. Materials Research Society Symposia Proceedings, 2004, 860, 73.	0.1	3
34	04 O 04 Generation of monodisperse nanoparticles in electrosprays. Journal of Aerosol Science, 1993, 24, S25-S26.	1.8	2
35	Calibration of a nano-DMA using high-mobility non-diffusional particles. Journal of Aerosol Science, 2000, 31, 402-403.	1.8	1
36	Theoretical effect of an axial electric field upon the resolution of classic differential mobility analyzers. Journal of Aerosol Science, 1998, 29, S1241-S1242.	1.8	0

#	Article	IF	Citations
37	Experimental Characterization of the Whipping Instability of Charged Microjets in Liquid Baths. Materials Research Society Symposia Proceedings, 2010, 1272, 1.	0.1	0
38	Fluid Flows for Engineering Complex Materials. , 2016, , 29-42.		0
39	NUMERICAL PREDICTION OF THE RESOLUTION OF DMAs. Journal of Aerosol Science, 2001, 32, 827-828.	1.8	0