Antonio Gonzalez

List of Publications by Year
in descending order

19 papers	1,792 citations	758635 12 h-index	1058022 14 g-index
19 all docs	19 docs citations	19 times ranked	1204 citing authors

#	Article	IF	Citations
1	Electrohydrodynamics and dielectrophoresis in microsystems: scaling laws. Journal Physics D: Applied Physics, 2003, 36, 2584-2597.	1.3	587
2	Fluid flow induced by nonuniform ac electric fields in electrolytes on microelectrodes.â€ƒIII.â€ƒObservation of streamlines and numerical simulation. Physical Review E, 2002, 66, 026305.	0.8	330
3	Electrothermally induced fluid flow on microelectrodes. Journal of Electrostatics, 2001, 53, 71-87.	1.0	251
4	Pumping of liquids with traveling-wave electroosmosis. Journal of Applied Physics, 2005, 97, 084906.	1.1	153
5	Electrothermal flows generated by alternating and rotating electric fields in microsystems. Journal of Fluid Mechanics, 2006, 564, 415.	1.4	142
6	Electric field induced fluid flow on microelectrodes: the effect of illumination. Journal Physics D: Applied Physics, 2000, 33, L13-L17.	1.3	103
7	Nonlinear electrohydrodynamics of free surfaces. IEEE Transactions on Dielectrics and Electrical Insulation, 1998, 5, 334-343.	1.8	51
8	Flow Reversal in Traveling-Wave Electrokinetics: An Analysis of Forces Due to Ionic Concentration Gradients. Langmuir, 2009, 25, 4988-4997.	1.6	44
9	A linear analysis of the effect of Faradaic currents on traveling-wave electroosmosis. Journal of Colloid and Interface Science, 2007, 309, 323-331.	5.0	42
10	Effect of the combined action of Faradaic currents and mobility differences in ac electro-osmosis. Physical Review E, 2010, 81, 016320.	0.8	33
11	Kortewegâ€“de Vriesâ€“Burgers equation for surface waves in nonideal conducting liquids. Physical Review E, 1994, 49, 2935-2940.	0.8	18
12	Pumping of electrolytes using travelling-wave electro-osmosis: a weakly nonlinear analysis. Microfluidics and Nanofluidics, 2008, 5, 507-515.	1.0	15
13	Effects of Faradaic currents on AC electroosmotic flows with coplanar symmetric electrodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 376, 47-52.	2.3	9
14	AC electrokinetic pumping of liquids using arrays of microelectrodes. , 2005, , .		6
15	Comment on â€œTheoretical Model of Electrode Polarization and AC Electroosmotic Fluid Flow in Planar Electrode Arraysâ€• Journal of Colloid and Interface Science, 2001, 243, 265-266.	5.0	4
16	Manipulation of Bio-Particles in Microelectrode Structures by Means of Non-Uniform AC Electric Fields. , 2002, , 165.		2
17	Effect of the difference in ion mobilities on traveling-wave electro-osmosis. , 2008, , .		1
18	Electrothermal Liquid Motion in Microsystems Subjected to Alternating and Rotating Electric Fields. , 2003, , .		1

#	Article	IF	Citations
19	Manipulation of bio-particles by means of nonuniform AC electric fields. , 2005, 5839, 138.		0