

Pablo Garcia-Sanchez

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,129
citations

361413

20
h-index

414414

32
g-index

62
all docs

62
docs citations

62
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of particle-electrode wall interactions in mobility of active Janus particles driven by electric fields. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 465-475.	9.4	13
2	Wall Repulsion of Charged Colloidal Particles during Electrophoresis in Microfluidic Channels. <i>Physical Review Letters</i> , 2022, 128, 074501.	7.8	11
3	Stationary Electro-osmotic Flow Driven by ac Fields around Insulators. <i>Physical Review Applied</i> , 2021, 15, .	3.8	20
4	Continuous Particle Separation in Microfluidics: Deterministic Lateral Displacement Assisted by Electric Fields. <i>Micromachines</i> , 2021, 12, 66.	2.9	1
5	Stationary electro-osmotic flow driven by AC fields around charged dielectric spheres. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	11
6	Concentrationâ€Polarization Electroosmosis near Insulating Constrictions within Microfluidic Channels. <i>Analytical Chemistry</i> , 2021, 93, 14667-14674.	6.5	7
7	Short communication: A simple and accurate method of measuring the zetaâ€potential of microfluidic channels. <i>Electrophoresis</i> , 2021, , .	2.4	4
8	Electrokinetic biased deterministic lateral displacement: scaling analysis and simulations. <i>Journal of Chromatography A</i> , 2020, 1623, 461151.	3.7	15
9	Dipolophoresis and Travelling-Wave Dipolophoresis of Metal Microparticles. <i>Micromachines</i> , 2020, 11, 259.	2.9	4
10	Dielectrophoretic Force Equilibrium of Complex Particles. <i>Physical Review Applied</i> , 2020, 14, .	3.8	1
11	Combining DC and AC electric fields with deterministic lateral displacement for micro- and nano-particle separation. <i>Biomicrofluidics</i> , 2019, 13, 054110.	2.4	26
12	Electrorotation of semiconducting microspheres. <i>Physical Review E</i> , 2019, 100, 042616.	2.1	11
13	Editorial for the Special Issue on AC Electrokinetics in Microfluidic Devices. <i>Micromachines</i> , 2019, 10, 345.	2.9	0
14	AC electrokinetic biased deterministic lateral displacement for tunable particle separation. <i>Lab on A Chip</i> , 2019, 19, 1386-1396.	6.0	49
15	Electrokinetics of metal cylinders. <i>Physical Review E</i> , 2019, 99, 032603.	2.1	4
16	Levitation? Yes, it is possible!. <i>American Journal of Physics</i> , 2019, 87, 270-274.	0.7	1
17	Modeling the AC Electrokinetic Behavior of Semiconducting Spheres. <i>Micromachines</i> , 2019, 10, 100.	2.9	11
18	Controllable production of Janus ligaments by AC fields in a flow-focusing junction. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	0

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19	Pumping of electrolytes by electrical forces induced on the diffusion layer: A weakly nonlinear analysis. <i>Physical Review E</i> , 2017, 95, 022802.	2.1	6
20	Electrorotation and Electroorientation of Semiconductor Nanowires. <i>Langmuir</i> , 2017, 33, 8553-8561.	3.5	16
21	Droplet group production in an AC electro-flow-focusing microdevice. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	4
22	Heat Transfer Enhancement in a Stagnant Dielectric Liquid by the Up and Down Motion of Conductive Particles Induced by Coulomb Forces. <i>Journal of Applied Fluid Mechanics</i> , 2017, 10, 169-182.	0.2	2
23	AC electrified jets in a flow-focusing device: Jet length scaling. <i>Biomicrofluidics</i> , 2016, 10, 043504.	2.4	20
24	AC electrokinetics of conducting microparticles: A review. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 24, 79-90.	7.4	62
25	Electrorotation of a metal sphere immersed in an electrolyte of finite Debye length. <i>Physical Review E</i> , 2015, 92, 052313.	2.1	25
26	Self-assembly of metal nanowires induced by alternating current electric fields. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	21
27	Dynamics of a Levitron under a periodic magnetic forcing. <i>American Journal of Physics</i> , 2015, 83, 133-142.	0.7	4
28	Breakup length of AC electrified jets in a microfluidic flow-focusing junction. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 787-794.	2.2	29
29	AC Electroosmosis: Basics and Lab-on-a-Chip Applications. , 2015, , 1-7.		2
30	Electro-orientation of a metal nanowire counterbalanced by thermal torques. <i>Physical Review E</i> , 2014, 89, 062306.	2.1	16
31	The microfluidic Kelvin water dropper. <i>Lab on A Chip</i> , 2013, 13, 4503.	6.0	36
32	Electric-field-induced rotation of Brownian metal nanowires. <i>Physical Review E</i> , 2013, 88, 033025.	2.1	26
33	Electrorotation of titanium microspheres. <i>Electrophoresis</i> , 2013, 34, 979-986.	2.4	24
34	Electro-orientation and electrorotation of metal nanowires. <i>Physical Review E</i> , 2013, 88, 063018.	2.1	44
35	Actuation of co-flowing electrolytes in a microfluidic system by microelectrode arrays. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 441-449.	2.2	17
36	Alternating Current Electrokinetic Properties of Gold-Coated Microspheres. <i>Langmuir</i> , 2012, 28, 13861-13870.	3.5	80

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37	Effects of Faradaic currents on AC electroosmotic flows with coplanar symmetric electrodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 376, 47-52.	4.7	9
38	Electrohydrodynamic actuation of co-flowing liquids by means of microelectrode arrays. Journal of Physics: Conference Series, 2011, 301, 012031.	0.4	1
39	Fundamentals of Electrowetting and Applications in Microsystems. , 2011, , 85-125.		6
40	Effect of the combined action of Faradaic currents and mobility differences in ac electro-osmosis. Physical Review E, 2010, 81, 016320.	2.1	33
41	Electrothermally driven flows in ac electrowetting. Physical Review E, 2010, 81, 015303.	2.1	61
42	Microwave-induced water flows in microsystems. Applied Physics Letters, 2009, 94, 024104.	3.3	8
43	AC electrokinetic pumping on symmetric electrode arrays. Microfluidics and Nanofluidics, 2009, 7, 767-772.	2.2	33
44	Water flows induced by microwave electric fields in microsystems. Journal of Electrostatics, 2009, 67, 377-380.	1.9	3
45	Electrical manipulation of electrolytes with conductivity gradients in microsystems. Journal of Electrostatics, 2009, 67, 372-376.	1.9	19
46	Flow Reversal in Traveling-Wave Electrokinetics: An Analysis of Forces Due to Ionic Concentration Gradients. Langmuir, 2009, 25, 4988-4997.	3.5	44
47	Experiments on traveling-wave electroosmosis: effect of electrolyte conductivity. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 417-423.	2.9	13
48	The effect of electrode height on the performance of travelling-wave electroosmotic micropumps. Microfluidics and Nanofluidics, 2008, 5, 307-312.	2.2	19
49	A symmetry electrode array for AC and traveling wave electroosmosis pumping. , 2008, , .		0
50	Flow of electrolytes induced by AC voltages in a point-plane electrode microsystem. , 2008, , .		0
51	Effect of the difference in ion mobilities on traveling-wave electro-osmosis. , 2008, , .		1
52	Traveling-Wave Electrokinetic Micropumps: Velocity, Electrical Current, and Impedance Measurements. Langmuir, 2008, 24, 9361-9369.	3.5	44
53	Experiments on pumping of liquids using arrays of microelectrodes subjected to travelling wave potentials. Journal of Physics: Conference Series, 2008, 142, 012055.	0.4	2
54	Pumping electrolytes with arrays of electrodes subjected to travelling-wave potentials: Electrode design. , 2007, , .		0

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55	Control of two-phase flow in a microfluidic system using ac electric fields. Applied Physics Letters, 2007, 91, 254107.	3.3	20
56	A linear analysis of the effect of Faradaic currents on traveling-wave electroosmosis. Journal of Colloid and Interface Science, 2007, 309, 323-331.	9.4	42
57	Experiments on AC electrokinetic pumping of liquids using arrays of microelectrodes. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 670-677.	2.9	69
58	Electroviscous Effect of Moderately Concentrated Colloidal Suspensions under Overlapping Conditions. Journal of Physical Chemistry B, 2005, 109, 5289-5299.	2.6	17
59	Electroviscous Effect of Moderately Concentrated Colloidal Suspensions: A Stern-Layer Influence. Journal of Physical Chemistry B, 2005, 109, 24369-24379.	2.6	12
60	Stern-layer parameters of alumina suspensions. Journal of Colloid and Interface Science, 2003, 268, 400-407.	9.4	4
61	Electroviscous Effect of Moderately Concentrated Colloidal Suspensions. Journal of Physical Chemistry B, 2003, 107, 9528-9534.	2.6	37
62	An Experimental Test of Booth's Primary Electroviscous Effect Theory. Journal of Colloid and Interface Science, 2002, 255, 208-213.	9.4	9