

Nicolas G Green

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

5,948
citations

40
h-index

77
g-index

101
ext. papers

6,648
ext. citations

3.4
avg, IF

5.57
L-index

#	Paper	IF	Citations
81	Electrohydrodynamics and dielectrophoresis in microsystems: scaling laws. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 2584-2597	3	493
80	Separation of submicron bioparticles by dielectrophoresis. <i>Biophysical Journal</i> , 1999 , 77, 516-25	2.9	419
79	Fluid flow induced by nonuniform ac electric fields in electrolytes on microelectrodes. I. Experimental measurements. <i>Physical Review E</i> , 2000 , 61, 4011-8	2.4	379
78	AC Electric-Field-Induced Fluid Flow in Microelectrodes. <i>Journal of Colloid and Interface Science</i> , 1999 , 217, 420-422	9.3	374
77	Fluid flow induced by nonuniform ac electric fields in electrolytes on microelectrodes. II. A linear double-layer analysis. <i>Physical Review E</i> , 2000 , 61, 4019-28	2.4	297
76	Single cell dielectric spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 61-70	3	281
75	Electrothermally induced fluid flow on microelectrodes. <i>Journal of Electrostatics</i> , 2001 , 53, 71-87	1.7	218
74	Dielectrophoresis of Submicrometer Latex Spheres. 1. Experimental Results. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 41-50	3.4	197
73	Dielectrophoretic manipulation of rod-shaped viral particles. <i>Journal of Electrostatics</i> , 1997 , 42, 279-293	1.7	184
72	Ac electrokinetics: a survey of sub-micrometre particle dynamics. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 632-641	3	172
71	The dielectrophoretic and travelling wave forces generated by interdigitated electrode arrays: analytical solution using Fourier series. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 1553-1561	3	159
70	Negative DEP traps for single cell immobilisation. <i>Lab on A Chip</i> , 2009 , 9, 1534-40	7.2	137
69	Manipulation and trapping of sub-micron bioparticles using dielectrophoresis. <i>Journal of Proteomics</i> , 1997 , 35, 89-102		137
68	High throughput particle analysis: combining dielectrophoretic particle focussing with confocal optical detection. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1621-30	11.8	131
67	Dielectrophoretic separation of nano-particles. <i>Journal Physics D: Applied Physics</i> , 1997 , 30, L41-L44	3	128
66	Electrothermal flows generated by alternating and rotating electric fields in microsystems. <i>Journal of Fluid Mechanics</i> , 2006 , 564, 415	3.7	127
65	Numerical solution of the dielectrophoretic and travelling wave forces for interdigitated electrode arrays using the finite element method. <i>Journal of Electrostatics</i> , 2002 , 56, 235-254	1.7	122

64	Separation of submicrometre particles using a combination of dielectrophoretic and electrohydrodynamic forces. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, L25-L30	3	105
63	Large-area travelling-wave dielectrophoresis particle separator. <i>Journal of Micromechanics and Microengineering</i> , 1997 , 7, 65-70	2	94
62	Dielectrophoretic investigations of sub-micrometre latex spheres. <i>Journal Physics D: Applied Physics</i> , 1997 , 30, 2626-2633	3	90
61	Electric field induced fluid flow on microelectrodes: the effect of illumination. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, L13-L17	3	89
60	High speed multi-frequency impedance analysis of single particles in a microfluidic cytometer using maximum length sequences. <i>Lab on A Chip</i> , 2007 , 7, 1034-40	7.2	88
59	Dielectric spectroscopy of single cells: time domain analysis using Maxwell's mixture equation. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1-8	3	87
58	Integrated systems for rapid point of care (PoC) blood cell analysis. <i>Lab on A Chip</i> , 2011 , 11, 1249-55	7.2	76
57	Field-effect sensors - from pH sensing to biosensing: sensitivity enhancement using streptavidin-biotin as a model system. <i>Analyst, The</i> , 2017 , 142, 4173-4200	5	75
56	Acid-base dissociation mechanisms and energetics at the silica-water interface: An activationless process. <i>Journal of Colloid and Interface Science</i> , 2015 , 451, 231-44	9.3	70
55	Broadband single cell impedance spectroscopy using maximum length sequences: theoretical analysis and practical considerations. <i>Measurement Science and Technology</i> , 2007 , 18, 2859-2868	2	66
54	Numerical determination of the effective moments of non-spherical particles. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 78-85	3	65
53	Microdevices for dielectrophoretic flow-through cell separation. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2003 , 22, 85-90		65
52	Formation of artificial lipid bilayers using droplet dielectrophoresis. <i>Lab on A Chip</i> , 2008 , 8, 1617-20	7.2	64
51	High speed simultaneous single particle impedance and fluorescence analysis on a chip. <i>Current Applied Physics</i> , 2006 , 6, 367-370	2.6	60
50	Experiments on AC electrokinetic pumping of liquids using arrays of microelectrodes. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2006 , 13, 670-677	2.3	55
49	Optically modulated electrokinetic manipulation and concentration of colloidal particles near an electrode surface. <i>Langmuir</i> , 2010 , 26, 5262-72	4	54
48	ANALYTICAL AND NUMERICAL MODELING METHODS FOR IMPEDANCE ANALYSIS OF SINGLE CELLS ON-CHIP. <i>Nano</i> , 2008 , 03, 55-63	1.1	51
47	The role of electrohydrodynamic forces in the dielectrophoretic manipulation and separation of particles. <i>Journal of Electrostatics</i> , 1999 , 47, 71-81	1.7	51

46	A simple, optically induced electrokinetic method to concentrate and pattern nanoparticles. <i>Nanoscale</i> , 2009 , 1, 133-7	7.7	48
45	Analytical solutions of ac electrokinetics in interdigitated electrode arrays: electric field, dielectrophoretic and traveling-wave dielectrophoretic forces. <i>Physical Review E</i> , 2007 , 76, 046610	2.4	48
44	Hybrid opto-electric manipulation in microfluidics-opportunities and challenges. <i>Lab on A Chip</i> , 2011 , 11, 2135-48	7.2	45
43	Impedance spectroscopy using maximum length sequences: application to single cell analysis. <i>Review of Scientific Instruments</i> , 2007 , 78, 054301	1.7	40
42	Numerical simulation of travelling wave induced electrothermal fluid flow. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 2323-2330	3	40
41	Flow reversal in traveling-wave electrokinetics: an analysis of forces due to ionic concentration gradients. <i>Langmuir</i> , 2009 , 25, 4988-97	4	37
40	Traveling-wave electrokinetic micropumps: velocity, electrical current, and impedance measurements. <i>Langmuir</i> , 2008 , 24, 9361-9	4	37
39	Continuous separation of colloidal particles using dielectrophoresis. <i>Electrophoresis</i> , 2013 , 34, 969-78	3.6	36
38	Digital signal processing methods for impedance microfluidic cytometry. <i>Microfluidics and Nanofluidics</i> , 2009 , 6, 179-187	2.8	34
37	Optically induced electrokinetic concentration and sorting of colloids. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 015022	2	33
36	An optoelectrokinetic technique for programmable particle manipulation and bead-based biosignal enhancement. <i>Lab on A Chip</i> , 2014 , 14, 3958-67	7.2	32
35	Electrothermal pumping with interdigitated electrodes and resistive heaters. <i>Electrophoresis</i> , 2015 , 36, 1681-9	3.6	31
34	Design and fabrication of an ac-electro-osmosis micropump with 3D high-aspect-ratio electrodes using only SU-8. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 035018	2	20
33	Higher-order dielectrophoresis of nonspherical particles. <i>Physical Review E</i> , 2014 , 89, 063302	2.4	19
32	Dynamic behaviour of the silica-water-bio electrical double layer in the presence of a divalent electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2687-2701	3.6	19
31	Control of two-phase flow in a microfluidic system using ac electric fields. <i>Applied Physics Letters</i> , 2007 , 91, 254107	3.4	19
30	Image-based sorting and negative dielectrophoresis for high purity cell and particle separation. <i>Electrophoresis</i> , 2019 , 40, 2718-2727	3.6	18
29	Large area multilayered electrode arrays for dielectrophoretic fractionation. <i>Microelectronic Engineering</i> , 1997 , 35, 421-424	2.5	17

28	The influence of stern layer conductance on the dielectrophoretic behavior of latex nanospheres. <i>Journal of Colloid and Interface Science</i> , 2002 , 250, 266-8	9.3	16
27	Calculation of surface potentials at the silica-water interface using molecular dynamics: Challenges and opportunities. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FM02	1.4	11
26	Modified Maxwell Garnett model for hysteresis in phase change materials. <i>Optical Materials Express</i> , 2018 , 8, 1988	2.6	8
25	Fabrication of microfluidic device channel using a photopolymer for colloidal particle separation. <i>Microsystem Technologies</i> , 2010 , 16, 2099-2107	1.7	8
24	The dielectrophoretic and travelling wave forces generated by interdigitated electrode arrays: analytical solution using Fourier series. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2708-2708	3	8
23	Electric field analysis using Schwarz-Christoffel mapping. <i>Journal of Physics: Conference Series</i> , 2008 , 142, 012029	0.3	6
22	Analytical solutions for the electric field and dielectrophoretic force in a dielectrophoretic focusing electrode structure. <i>Applied Physics Letters</i> , 2008 , 92, 173901	3.4	6
21	Continuous separation of submicron particles using Angled electrodes. <i>Journal of Physics: Conference Series</i> , 2008 , 142, 012068	0.3	5
20	Interactions of electric fields with fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 891-3	4.4	5
19	Scaling law analysis of electrohydrodynamics and dielectrophoresis for isomotive dielectrophoresis microfluidic devices. <i>Electrophoresis</i> , 2020 , 41, 148-155	3.6	5
18	AC electrokinetic pumping of liquids using arrays of microelectrodes 2005 ,		4
17	Comment on "Theoretical Model of Electrode Polarization and AC Electroosmotic Fluid Flow in Planar Electrode Arrays" <i>Journal of Colloid and Interface Science</i> , 2001 , 243, 265-266	9.3	4
16	Detecting and identifying DNA via the THz backbone frequency using a metamaterial-based label-free biosensor 2017 ,		3
15	Recommendations from cold starts in big data. <i>Computing (Vienna/New York)</i> , 2020 , 102, 1323-1344	2.2	3
14	Fabrication of micro-electrode arrays for biotechnological applications. <i>Microelectronic Engineering</i> , 1999 , 46, 397-400	2.5	3
13	Coherently tunable metalens tweezers for optofluidic particle routing. <i>Optics Express</i> , 2020 , 28, 38949-38959	3.9	3
12	Tuning of salt separation efficiency by flow rate control in microfluidic dynamic dialysis. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	2
11	Droplet mixer based on electrowetting. <i>Journal of Physics: Conference Series</i> , 2008 , 142, 012071	0.3	2

10	Solid state AC electroosmosis micro pump on a Chip 2006 ,			2
9	Impedance based flow sensor 2005 ,			2
8	A novel portable filtration system for sampling and concentration of microorganisms: Demonstration on marine microalgae with subsequent quantification using IC-NASBA. <i>Harmful Algae</i> , 2018 , 75, 94-104	5.3		1
7	Analytical solutions of the dielectrophoretic and travelling wave forces generated by interdigitated electrode arrays. <i>Journal of Physics: Conference Series</i> , 2008 , 142, 012011	0.3		1
6	Electrostatics and Quasielectrostatics 2011 , 29-59			1
5	A Modified Maxwell Garnett Model: Hysteresis in phase change materials. <i>Journal of Physics: Conference Series</i> , 2019 , 1322, 012038	0.3		0
4	Dielectrophoresis and AC Electrokinetics 2011 , 61-84			0
3	Modelling the Operational Limits of a Separation Enhancement Method for Capillary Electrophoresis: a Designer's Tool. <i>Procedia Engineering</i> , 2012 , 47, 694-697			
2	Evaluating the electrostatic discharge risk between small radius objects and charged planar insulating materials. <i>Journal of Electrostatics</i> , 2022 , 115, 103680	1.7		
1	Integration of a Solid State Micropump and a Sub-Micrometre Particle Analyser/Separator 2001 , 545-546			