

Juan G Santiago

List of Publications by Year in descending order

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219
papers

12,327
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23302

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104
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docs citations

234
times ranked

11838
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical solutions for viscoelectric effects in electrokinetic nanochannels. <i>Electrophoresis</i> , 2024, 45, 676-686.	2.9	0
2	Design and Evaluation of a Robust CRISPR Kinetic Assay for Hot-Spot Genotyping. <i>Analytical Chemistry</i> , 2024, 96, 7444-7451.	6.8	0
3	A critical review of microfluidic systems for CRISPR assays. <i>Lab on A Chip</i> , 2023, 23, 938-963.	6.1	17
4	Stream lamination and rapid mixing in a microfluidic jet for X-ray spectroscopy studies. <i>Flow</i> , 2023, 3, .	2.7	0
5	Taylor dispersion in arbitrarily shaped axisymmetric channels. <i>Journal of Fluid Mechanics</i> , 2023, 976, .	3.5	0
6	A modular and reconfigurable open-channel gated device for the electrokinetic extraction of cell-free DNA assays. <i>Analytica Chimica Acta</i> , 2022, 1200, 339435.	5.5	3
7	Single-layer graphene prevents Cassie-wetting failure of structured hydrophobic surface for efficient condensation. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 302-308.	9.6	7
8	Millisecond timescale reactions observed via X-ray spectroscopy in a 3D microfabricated fused silica mixer. <i>Corrigendum. Journal of Synchrotron Radiation</i> , 2022, 29, 930.	2.4	0
9	High-Performance Dielectric Elastomer Nanogenerator for Efficient Energy Harvesting and Sensing via Alternative Current Method. <i>Advanced Science</i> , 2022, 9, e2201098.	12.4	13
10	Synergistic effect of Pt and Hf on the early-stage oxidation behaviour of NiAl coating at 1000 Å°C. <i>Corrosion Communications</i> , 2022, 5, 49-61.	6.3	5
11	Assembly of two-dimensional nanofluidic channel with high proton conductivity using single-layer MnO ₂ nanosheets. <i>Science China Materials</i> , 2022, 65, 2578-2584.	6.5	3
12	Wires with Continuous Sabal Leaf- μ Patterned Micropores Constructed by Freeze Printing for a Wearable Sensor Responsible to Multiple Deformations. <i>Small</i> , 2022, 18, e2201091.	11.2	6
13	Isotachophoresis: Theory and Microfluidic Applications. <i>Chemical Reviews</i> , 2022, 122, 12904-12976.	51.4	16
14	Enzyme Kinetics and Detector Sensitivity Determine Limits of Detection of Amplification-Free CRISPR-Cas12 and CRISPR-Cas13 Diagnostics. <i>Analytical Chemistry</i> , 2022, 94, 9826-9834.	6.8	63
15	Inconsistent treatments of the kinetics of Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) impair assessment of its diagnostic potential. <i>QRB Discovery</i> , 2022, 3, .	0.5	7
16	Review: Inconsistent Treatments of CRISPR Kinetics Impair Assessment of Its Diagnostic Potential $\hat{\mu}$ ” R0/PR1. <i>QRB Discovery</i> , 2022, , .	0.5	0
17	Review: Inconsistent Treatments of CRISPR Kinetics Impair Assessment of Its Diagnostic Potential $\hat{\mu}$ ” R0/PR2. <i>QRB Discovery</i> , 2022, , .	0.5	0
18	Electrochemical Methods for Water Purification, Ion Separations, and Energy Conversion. <i>Chemical Reviews</i> , 2022, 122, 13547-13635.	51.4	186

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19	Uncertainty Quantification of Michaelis-Menten Kinetic Rates and Its Application to the Analysis of CRISPR-Based Diagnostics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.8	11
20	Liquid Heterostructures: Generation of Liquid-Liquid Interfaces in Free-Flowing Liquid Sheets. <i>Langmuir</i> , 2022, 38, 12822-12832.	3.7	9
21	Detection and Discrimination of Single Nucleotide Polymorphisms by Quantification of CRISPR-Cas Catalytic Efficiency. <i>Analytical Chemistry</i> , 2022, 94, 15117-15123.	6.8	12
22	Evaluating the Effects of Varying Model Parameter Values on the Characteristics of a Photovoltaic Module. <i>Lecture Notes in Networks and Systems</i> , 2021, , 141-155.	0.0	0
23	Flow forth. <i>Flow</i> , 2021, 1, .	2.7	0
24	Thermorheological evidence and structure of heterogeneity in syndiotactic polypropylene melts with strong memory effects. <i>Polymer</i> , 2021, 218, 123484.	3.9	7
25	Efficacy and safety of glucose-lowering agents in patients with type 2 diabetes: A network meta-analysis of randomized, active comparator-controlled trials. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 1027-1034.	2.7	11
26	Millisecond timescale reactions observed via X-ray spectroscopy in a 3D microfabricated fused silica mixer. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1100-1113.	2.4	4
27	CRISPR Enzyme Kinetics for Molecular Diagnostics. <i>Analytical Chemistry</i> , 2021, 93, 7456-7464.	6.8	105
28	Fast Water Evaporation from Nanopores. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100660.	4.1	8
29	Tunable Photocatalytic Activity of PEO-Stabilized ZnO-Polyoxometalate Nanostructures in Aqueous Solution. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002130.	4.1	11
30	Capacitive Deionization. <i>Materials and Energy</i> , 2021, , 289-336.	0.0	0
31	Species Abundance and Reaction Off-Rate Regulate Product Formation in Reactions Accelerated Using Isotachophoresis. <i>Analytical Chemistry</i> , 2021, 93, 12541-12548.	6.8	3
32	Dopamine D1/D3 receptor density may correlate with parkinson disease clinical features. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 224-237.	3.7	14
33	Web-Based Open-Source Tool for Isotachophoresis. <i>Analytical Chemistry</i> , 2021, 93, 15768-15774.	6.8	10
34	Photoinduced directional domain sliding motion in peptide hydrogels promotes ectodermal differentiation of embryonic stem cells. <i>Science China Materials</i> , 2020, 63, 467-478.	6.5	1
35	Energy transfer for storage or recovery in capacitive deionization using a DC-DC converter. <i>Journal of Power Sources</i> , 2020, 448, 227409.	8.0	16
36	Simultaneous optical and infrared thermal imaging of isotachophoresis. <i>Analytica Chimica Acta</i> , 2020, 1131, 9-17.	5.5	5

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37	Effects of Weak Electrolytes on Electric Double Layer Ion Distributions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8302-8306.	4.9	15
38	Electric field-driven microfluidics for rapid CRISPR-based diagnostics and its application to detection of SARS-CoV-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29518-29525.	7.6	243
39	Thermal Self-Protection of Zinc-Ion Batteries Enabled by Smart Hygroscopic Hydrogel Electrolytes. <i>Advanced Energy Materials</i> , 2020, 10, 2002898.	22.2	112
40	Immune Checkpoint Inhibitor-Induced Thyroiditis Is Associated with Increased Intrathyroidal T Lymphocyte Subpopulations. <i>Thyroid</i> , 2020, 30, 1440-1450.	5.1	61
41	Understanding resistances in capacitive deionization devices. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1842-1854.	2.2	6
42	Process design tools and techno-economic analysis for capacitive deionization. <i>Water Research</i> , 2020, 183, 116034.	11.4	22
43	A system for the high-throughput measurement of the shear modulus distribution of human red blood cells. <i>Lab on A Chip</i> , 2020, 20, 2927-2936.	6.1	21
44	On the competition between mixing rate and uniformity in a coaxial hydrodynamic focusing mixer. <i>Analytica Chimica Acta</i> , 2020, 1103, 1-10.	5.5	6
45	Jacques Glowinski, neurobiologist and head of school. <i>Comptes Rendus - Biologies</i> , 2020, 343, 11-14.	0.3	0
46	Promoting Energy Efficiency via a Self-Adaptive Evaporative Cooling Hydrogel. <i>Advanced Materials</i> , 2020, 32, e1907307.	24.3	161
47	Structure and dynamic properties of stretched water in graphene nanochannels by molecular dynamics simulation: effects of stretching extent. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19163-19171.	2.9	21
48	Simultaneous RNA purification and size selection using on-chip isotachopheresis with an ionic spacer. <i>Lab on A Chip</i> , 2019, 19, 2741-2749.	6.1	15
49	Liquid flow-induced electricity in carbon nanomaterials. <i>Sustainable Energy and Fuels</i> , 2019, 3, 599-610.	4.8	22
50	Complex nearly immotile behaviour of enzymatically driven cargos. <i>Soft Matter</i> , 2019, 15, 1847-1852.	2.8	2
51	Evaluation of IVIG response in relation to Th1/Th2 cytokines in pediatric immune thrombocytopenia. <i>Cytokine</i> , 2019, 120, 234-241.	3.2	8
52	Using Ultramicroporous Carbon for the Selective Removal of Nitrate with Capacitive Deionization. <i>Environmental Science & Technology</i> , 2019, 53, 10863-10870.	10.5	128
53	Interfacial Solar-Heat Conversion for Desalination. <i>Advanced Energy Materials</i> , 2019, 9, 1900310.	22.2	186
54	Comments on "Comparison of energy consumption in desalination by capacitive deionization and reverse osmosis". <i>Desalination</i> , 2019, 461, 30-36.	8.3	39

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55	High water recovery and improved thermodynamic efficiency for capacitive deionization using variable flowrate operation. <i>Water Research</i> , 2019, 155, 76-85.	11.4	58
56	Performance metrics for the objective assessment of capacitive deionization systems. <i>Water Research</i> , 2019, 152, 126-137.	11.4	210
57	The Effect of Press Door Impact Beam Inclination Angle on Bending Strength. <i>Transactions of the Korean Society of Automotive Engineers</i> , 2019, 27, 427-433.	0.3	0
58	Highly photoluminescent two-dimensional imine-based covalent organic frameworks for chemical sensing. <i>Chemical Communications</i> , 2018, 54, 2349-2352.	4.2	219
59	Charging and Transport Dynamics of a Flow-Through Electrode Capacitive Deionization System. <i>Journal of Physical Chemistry B</i> , 2018, 122, 240-249.	2.7	37
60	Self similarities in desalination dynamics and performance using capacitive deionization. <i>Water Research</i> , 2018, 140, 323-334.	11.4	31
61	Nitrate removal from water using electrostatic regeneration of functionalized adsorbent. <i>Chemical Engineering Journal</i> , 2018, 334, 1289-1296.	13.0	61
62	Isotachopheresis applied to biomolecular reactions. <i>Lab on A Chip</i> , 2018, 18, 11-26.	6.1	32
63	Adsorption and capacitive regeneration of nitrate using inverted capacitive deionization with surfactant functionalized carbon electrodes. <i>Separation and Purification Technology</i> , 2018, 194, 410-415.	8.1	54
64	Quantifying the flow efficiency in constant-current capacitive deionization. <i>Water Research</i> , 2018, 129, 327-336.	11.4	67
65	Modelling and optimization applied to the design of fast hydrodynamic focusing microfluidic mixer for protein folding. <i>Journal of Mathematics in Industry</i> , 2018, 8, .	1.2	5
66	Ion selectivity in capacitive deionization with functionalized electrode: Theory and experimental validation. <i>Water Research X</i> , 2018, 1, 100008.	6.2	67
67	Efficient Production of On-Target Reads for Small RNA Sequencing of Single Cells Using Modified Adapters. <i>Analytical Chemistry</i> , 2018, 90, 12609-12615.	6.8	14
68	Frequency analysis and resonant operation for efficient capacitive deionization. <i>Water Research</i> , 2018, 144, 581-591.	11.4	17
69	Self-Cleaning Porous Surfaces for Dry Condensation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26759-26764.	8.3	25
70	SINC-seq: correlation of transient gene expressions between nucleus and cytoplasm reflects single-cell physiology. <i>Genome Biology</i> , 2018, 19, 66.	9.2	52
71	Tailored porous electrode resistance for controlling electrolyte depletion and improving charging response in electrochemical systems. <i>Journal of Power Sources</i> , 2018, 397, 252-261.	8.0	5
72	Tailoring Permeability of Microporous Copper Structures through Template Sintering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30487-30494.	8.3	19

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73	Thermodynamics of Ion Separation by Electrosorption. Environmental Science & Technology, 2018, 52, 10196-10204.	10.5	54
74	Enhanced Capillary-Infused Boiling in Copper Inverse Opals via Template Sintering. Advanced Functional Materials, 2018, 28, 1803689.	16.5	56
75	A method for quantifying in plane permeability of porous thin films. Journal of Colloid and Interface Science, 2018, 530, 667-674.	9.6	6
76	Device design and flow scaling for liquid sheet jets. Physical Review Fluids, 2018, 3, .	2.6	18
77	34 UnterstÄtzler / Gratulanten. , 2018, , 367-377.		0
78	Nondestructive nanostraw intracellular sampling for longitudinal cell monitoring. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1866-E1874.	7.6	127
79	Rapid Hydrogen-Deuterium Exchange in Liquid Droplets. Journal of the American Chemical Society, 2017, 139, 6851-6854.	14.6	74
80	Assay for Listeria monocytogenes cells in whole blood using isotachopheresis and recombinase polymerase amplification. Analyst, The, 2017, 142, 48-54.	3.5	31
81	Equilibria model for pH variations and ion adsorption in capacitive deionization electrodes. Water Research, 2017, 122, 387-397.	11.4	50
82	Bio-inspired intelligent evaporation modulation in a thermo-sensitive nanogel colloid solution for self-thermoregulation. Physical Chemistry Chemical Physics, 2017, 19, 16312-16316.	2.9	1
83	Extreme Two-Phase Cooling from Laser-Etched Diamond and Conformal, Template-Fabricated Microporous Copper. Advanced Functional Materials, 2017, 27, 1703265.	16.5	89
84	Solar-driven simultaneous steam production and electricity generation from salinity. Energy and Environmental Science, 2017, 10, 1923-1927.	32.2	410
85	A Fully Integrated CMOS Fluorescence Biochip for DNA and RNA Testing. IEEE Journal of Solid-State Circuits, 2017, 52, 2857-2870.	5.7	44
86	False data injection attacks on phasor measurements that bypass low-rank decomposition. , 2017, , .		21
87	Comparison and Research of the Mechanical Items of Standards for Controlled Door Closing Devices. IOP Conference Series: Materials Science and Engineering, 2017, 239, 012003.	0.6	0
88	Design sensitivity and mixing uniformity of a micro-fluidic mixer. Physics of Fluids, 2016, 28, .	3.9	12
89	Prevention of microalbuminuria using early intervention with renin-angiotensin system inhibitors in patients with type 2 diabetes: A systematic review. JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2016, 17, 147032031665204.	1.6	37
90	Energy consumption analysis of constant voltage and constant current operations in capacitive deionization. Desalination, 2016, 400, 18-24.	8.3	129

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91	Energy breakdown in capacitive deionization. <i>Water Research</i> , 2016, 104, 303-311.	11.4	117
92	An Ohmic model for electrokinetic flows of binary asymmetric electrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 24, 52-63.	8.0	12
93	Influx and Production Rates in Peak-Mode Isotachopheresis. <i>Analytical Chemistry</i> , 2016, 88, 11352-11357.	6.8	7
94	Protocol for Microfluidic System to Automate the Preparation and Fractionation of the Nucleic Acids in the Cytoplasm Versus Nuclei of Single Cells. <i>Bio-protocol</i> , 2016, 6, .	0.4	5
95	Grouting to remove piles from a tunnelling machine cutter-head. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2015, 168, 358-370.	1.7	3
96	Approaching the limits of two-phase boiling heat transfer: High heat flux and low superheat. <i>Applied Physics Letters</i> , 2015, 107, .	3.2	57
97	Rapid Slow Off-Rate Modified Aptamer (SOMAmer)-Based Detection of C-Reactive Protein Using Isotachopheresis and an Ionic Spacer. <i>Analytical Chemistry</i> , 2015, 87, 6736-6743.	6.8	37
98	Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells. <i>FASEB Journal</i> , 2015, 29, 1930-1939.	0.5	90
99	Burst behavior at a capillary tip: Effect of low and high surface tension. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 1-5.	9.6	19
100	Characterization of Resistances of a Capacitive Deionization System. <i>Environmental Science & Technology</i> , 2015, 49, 9699-9706.	10.5	114
101	Extraction and fractionation of RNA and DNA from single cells using selective lysing and isotachopheresis. <i>Proceedings of SPIE</i> , 2015, , .	1.0	0
102	Isotachopheresis for fractionation and recovery of cytoplasmic RNA and nucleus from single cells. <i>Electrophoresis</i> , 2015, 36, 1658-1662.	2.9	25
103	Two-Dimensional Porous Electrode Model for Capacitive Deionization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24681-24694.	3.3	122
104	Increasing Hybridization Rate and Sensitivity of Bead-Based Assays Using Isotachopheresis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13813-13816.	14.8	16
105	On the chronology of the Uluzzian. <i>Journal of Human Evolution</i> , 2014, 68, 1-13.	2.8	110
106	Purification of nucleic acids using isotachopheresis. <i>Journal of Chromatography A</i> , 2014, 1335, 105-120.	3.8	80
107	Increasing hybridization rate and sensitivity of DNA microarrays using isotachopheresis. <i>Lab on A Chip</i> , 2014, 14, 2958-2967.	6.1	53
108	Phase-separation of wetting fluids using nanoporous alumina membranes and micro-glass capillaries. , 2014, , .		3

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109	Simultaneous Purification and Fractionation of Nucleic Acids and Proteins from Complex Samples Using Bidirectional Isotachophoresis. <i>Analytical Chemistry</i> , 2014, 86, 7264-7268.	6.8	29
110	On-Chip Separation and Analysis of RNA and DNA from Single Cells. <i>Analytical Chemistry</i> , 2014, 86, 1953-1957.	6.8	54
111	Coupling Isotachophoresis with Affinity Chromatography for Rapid and Selective Purification with High Column Utilization, Part 1: Theory. <i>Analytical Chemistry</i> , 2014, 86, 6220-6228.	6.8	10
112	Coupling Isotachophoresis with Affinity Chromatography for Rapid and Selective Purification with High Column Utilization, Part 2: Experimental Study. <i>Analytical Chemistry</i> , 2014, 86, 6229-6236.	6.8	20
113	An injection molded microchip for nucleic acid purification from 25 microliter samples using isotachophoresis. <i>Journal of Chromatography A</i> , 2014, 1331, 139-142.	3.8	36
114	In Situ Spatially and Temporally Resolved Measurements of Salt Concentration between Charging Porous Electrodes for Desalination by Capacitive Deionization. <i>Environmental Science & Technology</i> , 2014, 48, 2008-2015.	10.5	66
115	Increasing Hybridization Rate and Sensitivity of Bead-Based Assays Using Isotachophoresis. <i>Angewandte Chemie</i> , 2014, 126, 14033-14036.	2.1	8
116	Impedance-based study of capacitive porous carbon electrodes with hierarchical and bimodal porosity. <i>Journal of Power Sources</i> , 2013, 241, 266-273.	8.0	85
117	Isotachophoresis with ionic spacer and two-stage separation for high sensitivity DNA hybridization assay. <i>Analyst</i> , The, 2013, 138, 3117.	3.5	33
118	Integration of rapid DNA hybridization and capillary zone electrophoresis using bidirectional isotachophoresis. <i>Analyst</i> , The, 2013, 138, 87-90.	3.5	35
119	A method for non-invasive full-field imaging and quantification of chemical species. <i>Lab on A Chip</i> , 2013, 13, 1632.	6.1	8
120	Coupling isotachophoresis and capillary electrophoresis: a review and comparison of methods. <i>Analyst</i> , The, 2013, 138, 735-754.	3.5	69
121	Rapid High-Specificity microRNA Detection Using a Two-Stage Isotachophoresis Assay. <i>Angewandte Chemie</i> , 2013, 125, 11748-11751.	2.1	17
122	Unraveling the potential and pore-size dependent capacitance of slit-shaped graphitic carbon pores in aqueous electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2309.	2.9	82
123	Temperature Effects on Electrophoresis. <i>Analytical Chemistry</i> , 2013, 85, 5103-5113.	6.8	28
124	Two- and three-dimensional modeling and optimization applied to the design of a fast hydrodynamic focusing microfluidic mixer for protein folding. <i>Physics of Fluids</i> , 2013, 25, .	3.9	21
125	Smart CMOS image sensor for lightning detection and imaging. <i>Applied Optics</i> , 2013, 52, C16.	1.8	6
126	Giant Thermal Transport Phase Lagging in CNT Aggregates. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2013, 17, 236-244.	2.6	1

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127	Rapid High-Resolution Specificity microRNA Detection Using a Two-Stage Isotachophoresis Assay. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11534-11537.	14.8	53
128	Electric fields yield chaos in microflows. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14353-14356.	7.6	49
129	Rapid hybridization of nucleic acids using isotachophoresis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11127-11132.	7.6	91
130	On-chip Isotachophoresis for Separation of Ions and Purification of Nucleic Acids. <i>Journal of Visualized Experiments</i> , 2012, , e3890.	0.3	23
131	Robust and high-resolution simulations of nonlinear electrokinetic processes in variable cross-section channels. <i>Electrophoresis</i> , 2012, 33, 3036-3051.	2.9	27
132	Integration of On-Chip Isotachophoresis and Functionalized Hydrogels for Enhanced-Sensitivity Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2012, 84, 6366-6369.	6.8	61
133	Capacitive desalination with flow-through electrodes. <i>Energy and Environmental Science</i> , 2012, 5, 9511.	32.2	344
134	Bacterial RNA Extraction and Purification from Whole Human Blood Using Isotachophoresis. <i>Analytical Chemistry</i> , 2012, 84, 5858-5863.	6.8	42
135	Concentration cascade of leading electrolyte using bidirectional isotachophoresis. <i>Electrophoresis</i> , 2012, 33, 1048-1059.	2.9	15
136	The Rabin Index of Parity Games. <i>Lecture Notes in Computer Science</i> , 2012, , 259-260.	1.0	1
137	MicroRNA Profiling by Simultaneous Selective Isotachophoresis and Hybridization with Molecular Beacons. <i>Analytical Chemistry</i> , 2011, 83, 2310-2316.	6.8	74
138	Rapid Detection of Urinary Tract Infections Using Isotachophoresis and Molecular Beacons. <i>Analytical Chemistry</i> , 2011, 83, 4110-4117.	6.8	88
139	Extraction of DNA from Malaria-Infected Erythrocytes Using Isotachophoresis. <i>Analytical Chemistry</i> , 2011, 83, 9715-9718.	6.8	42
140	Electroosmotic pump performance is affected by concentration polarizations of both electrodes and pump. <i>Sensors and Actuators A: Physical</i> , 2011, 165, 310-315.	4.2	45
141	Carbon Nanoparticles on Carbon Fabric for Flexible and High-Performance Field Emitters. <i>Advanced Functional Materials</i> , 2011, 21, 2150-2154.	16.5	73
142	Electrophoretic mobility measurements of fluorescent dyes using on-chip capillary electrophoresis. <i>Electrophoresis</i> , 2011, 32, 3286-3294.	2.9	67
143	Sample dispersion in isotachophoresis. <i>Journal of Fluid Mechanics</i> , 2011, 679, 455-475.	3.5	53
144	In situ-polymerized wicks for passive water management in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 1667-1675.	8.0	18

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145	Ionic strength effects on electrophoretic focusing and separations. <i>Electrophoresis</i> , 2010, 31, 910-919.	2.9	63
146	A self-priming, roller-free, miniature, peristaltic pump operable with a single, reciprocating actuator. <i>Sensors and Actuators A: Physical</i> , 2010, 160, 141-146.	4.2	38
147	A two-liquid electroosmotic pump using low applied voltage and power. <i>Sensors and Actuators A: Physical</i> , 2010, 163, 311-314.	4.2	34
148	Evidence shows concentration polarization and its propagation can be key factors determining electroosmotic pump performance. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 795-798.	8.0	15
149	Design and fabrication of porous polymer wick structures. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 556-563.	8.0	18
150	Compact adaptive-grid scheme for high numerical resolution simulations of isotachopheresis. <i>Journal of Chromatography A</i> , 2010, 1217, 588-599.	3.8	25
151	Establishment of an <i>Agrobacterium</i> -mediated transformation system for <i>Periploca sepium</i> Bunge. <i>Plant Biotechnology</i> , 2010, 27, 173-181.	1.0	5
152	Quantification of Global MicroRNA Abundance by Selective Isotachopheresis. <i>Analytical Chemistry</i> , 2010, 82, 9631-9635.	6.8	31
153	Fluorescent Carrier Ampholytes Assay for Portable, Label-Free Detection of Chemical Toxins in Tap Water. <i>Analytical Chemistry</i> , 2010, 82, 1858-1866.	6.8	20
154	Miniaturized system for isotachopheresis assays. <i>Lab on A Chip</i> , 2010, 10, 2242.	6.1	40
155	Method for Analyte Identification Using Isotachopheresis and a Fluorescent Carrier Ampholyte Assay. <i>Analytical Chemistry</i> , 2010, 82, 2134-2138.	6.8	15
156	Hydrodynamic interactions in metal rodlike-particle suspensions due to induced charge electroosmosis. <i>Physical Review E</i> , 2009, 79, 011402.	2.1	47
157	In Situ Polymerized Wicks for Passive Water Management and Humidification of Dry Gases. <i>ECS Transactions</i> , 2009, 25, 303-309.	0.6	3
158	Electrokinetic control of sample splitting at a channel bifurcation using isotachopheresis. <i>New Journal of Physics</i> , 2009, 11, 075026.	2.9	17
159	Imaging and Quantification of Isotachopheresis Zones Using Nonfocusing Fluorescent Tracers. <i>Analytical Chemistry</i> , 2009, 81, 3022-3028.	6.8	48
160	Engineering model for coupling wicks and electroosmotic pumps with proton exchange membrane fuel cells for active water management. <i>Electrochimica Acta</i> , 2009, 54, 6223-6233.	5.4	13
161	Two-phase hydrodynamics in a miniature direct methanol fuel cell. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5158-5166.	4.9	14
162	Dry gas operation of proton exchange membrane fuel cells with parallel channels: Non-porous versus porous plates. <i>Journal of Power Sources</i> , 2009, 188, 82-88.	8.0	25

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