

Andreas Manz

List of Publications by Year in Descending Order

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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.

209
papers

24,647
citations

66
h-index

156
g-index

219
ext. papers

26,718
ext. citations

7.4
avg, IF

6.93
L-index

#	Paper	IF	Citations
209	Transcriptomic and physiological analysis of endocrine disrupting chemicals Impacts on 3D Zebrafish liver cell culture system.. <i>Aquatic Toxicology</i> , 2022 , 245, 106105	5.1	1
208	Targeting extracellular lectins of with glycomimetic liposomes.. <i>Journal of Materials Chemistry B</i> , 2022 ,	7.3	1
207	Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring 2021 , 1-66		2
206	User-Friendly Microfabrication Method for Complex Topological Structure and Three-Dimensional Microchannel with the Application Prospect in Polymerase Chain Reaction (PCR). <i>Analytical Chemistry</i> , 2021 , 93, 1523-1528	7.8	
205	Microfluidic Roadmap for Translational Nanotheranostics.. <i>Small Methods</i> , 2021 , e2101217	12.8	0
204	Miniaturized Continuous-Flow Digital PCR for Clinical-Level Serum Sample Based on the 3D Microfluidics and CMOS Imaging Device. <i>Sensors</i> , 2020 , 20,	3.8	1
203	Fully automatic integrated continuous-flow digital PCR device for absolute DNA quantification. <i>Analytica Chimica Acta</i> , 2020 , 1125, 50-56	6.6	7
202	A digital PCR system based on the thermal cycled chip with multi helix winding capillary. <i>Scientific Reports</i> , 2020 , 10, 17824	4.9	1
201	Plasmonic heating-based portable digital PCR system. <i>Lab on A Chip</i> , 2020 , 20, 3560-3568	7.2	7
200	A Thermodynamic Description of Turbulence as a Source of Stochastic Kinetic Energy for 3D Self-Assembly. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1900963	4.6	3
199	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. <i>Advanced Materials</i> , 2019 , 31, e1806739	24	242
198	Long-term observation of <i>Magnetospirillum gryphiswaldense</i> in a microfluidic channel. <i>Archives of Microbiology</i> , 2019 , 201, 1427-1433	3	1
197	Precise definition of starting time by capillary-based chemical initiation of digital isothermal DNA amplification. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 678-682	8.5	9
196	Differentiation of the human liver progenitor cell line (HepaRG) on a microfluidic-based biochip. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 482-494	4.4	20
195	Microfluidics as tool to prepare size-tunable PLGA nanoparticles with high curcumin encapsulation for efficient mucus penetration. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 2280-2293	3	29
194	On-line electroextraction in capillary electrophoresis: Application on the determination of glutamic acid in soy sauces. <i>Electrophoresis</i> , 2019 , 40, 322-329	3.6	7
193	Magnetic response of <i>Magnetospirillum gryphiswaldense</i> observed inside a microfluidic channel. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 460, 340-353	2.8	9

192	Macroscopic equivalence for microscopic motion in a turbulence driven three-dimensional self-assembly reactor. <i>Journal of Applied Physics</i> , 2018 , 123, 024901	2.5	5
191	Duplex-imprinted nano well arrays for promising nanoparticle assembly. <i>Nanotechnology</i> , 2018 , 29, 085302	3.4	3
190	Miniaturised total chemical-analysis systems (TAS) that periodically convert chemical into electronic information. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 1334-1345	8.5	16
189	Study of melatonin-mediated effects on various hepatic inflammatory responses stimulated by IL-6 in a new HepG2-on-a-chip platform. <i>Biomedical Microdevices</i> , 2018 , 20, 54	3.7	4
188	Storage and controlled release of fragrances maintaining a constant ratio of volatile compounds. <i>Analytical Methods</i> , 2017 , 9, 6073-6082	3.2	3
187	Van de Graaff generator for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2017 , 1517, 195-202	4.5	2
186	Thermal gradient for fluorometric optimization of droplet PCR in virtual reaction chambers. <i>Mikrochimica Acta</i> , 2017 , 184, 3433-3439	5.8	9
185	Biocompatibility assay of cellular behavior inside a leaf-inspired biomimetic microdevice at the single-cell level. <i>RSC Advances</i> , 2017 , 7, 32710-32720	3.7	5
184	Selective and vertical microfabrication of lipid tubule arrays on glass substrates using template-guided gentle hydration. <i>Lab on A Chip</i> , 2016 , 16, 4732-4741	7.2	3
183	Handheld real-time PCR device. <i>Lab on A Chip</i> , 2016 , 16, 586-92	7.2	72
182	Pyrosequencing on a glass surface. <i>Lab on A Chip</i> , 2016 , 16, 1063-71	7.2	8
181	Plant leaves as templates for soft lithography. <i>RSC Advances</i> , 2016 , 6, 22469-22475	3.7	36
180	Palm-Sized Device for Point-of-Care Ebola Detection. <i>Analytical Chemistry</i> , 2016 , 88, 4803-7	7.8	44
179	Superheated droplets for protein thermal stability analyses of GFP, BSA and Taq-polymerase. <i>RSC Advances</i> , 2016 , 6, 42076-42080	3.7	1
178	Polymerase chain reaction in microfluidic devices. <i>Lab on A Chip</i> , 2016 , 16, 3866-3884	7.2	146
177	Microfluidic Superheating for Peptide Sequence Elucidation. <i>Analytical Chemistry</i> , 2015 , 87, 5997-6003	7.8	3
176	Single Fluorescence Channel-based Multiplex Detection of Avian Influenza Virus by Quantitative PCR with Intercalating Dye. <i>Scientific Reports</i> , 2015 , 5, 11479	4.9	20
175	On-chip three-dimensional cell culture in phaseguides improves hepatocyte functions in vitro. <i>Biomicrofluidics</i> , 2015 , 9, 034113	3.2	56

174	Nanoliter-sized overheated reactor. <i>Applied Physics Letters</i> , 2015 , 106, 024104	3.4	9
173	Rapid manufacture of modifiable 2.5-dimensional (2.5D) microstructures for capillary force-driven fluidic velocity control. <i>RSC Advances</i> , 2015 , 5, 70737-70742	3.7	11
172	Direct coupling of a free-flow isotachopheresis (FFITP) device with electrospray ionization mass spectrometry (ESI-MS). <i>Lab on A Chip</i> , 2015 , 15, 3495-502	7.2	19
171	Present state of microchip electrophoresis: state of the art and routine applications. <i>Journal of Chromatography A</i> , 2015 , 1382, 66-85	4.5	122
170	Galectin-3 coats the membrane of breast cells and makes a signature of tumours. <i>Molecular BioSystems</i> , 2014 , 10, 258-65		18
169	Membrane-free electroextraction using an aqueous two-phase system. <i>RSC Advances</i> , 2014 , 4, 49485-49490	3.7	12
168	From chip-in-a-lab to lab-on-a-chip: towards a single handheld electronic system for multiple application-specific lab-on-a-chip (ASLOC). <i>Lab on A Chip</i> , 2014 , 14, 2168-76	7.2	44
167	Acoustofluidic chemical waveform generator and switch. <i>Analytical Chemistry</i> , 2014 , 86, 11803-10	7.8	42
166	Fast spore breaking by superheating. <i>Lab on A Chip</i> , 2013 , 13, 1695-8	7.2	5
165	Protein-carbohydrate complex reveals circulating metastatic cells in a microfluidic assay. <i>Small</i> , 2013 , 9, 2152-61	11	30
164	Detection of electrochemiluminescence from floating metal platelets in suspension. <i>Lab on A Chip</i> , 2013 , 13, 781-4	7.2	10
163	A facile in situ microfluidic method for creating multivalent surfaces: toward functional glycomics. <i>Lab on A Chip</i> , 2012 , 12, 1500-7	7.2	27
162	Trends and Perspectives 2012 , 229-239		
161	Cell rolling and adhesion on surfaces in shear flow. A model for an antibody-based microfluidic screening system. <i>Microelectronic Engineering</i> , 2012 , 98, 668-671	2.5	19
160	Revisiting lab-on-a-chip technology for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2012 , 11, 620-32	64.1	362
159	Terahertz-time domain spectroscopy for the detection of PCR amplified DNA in aqueous solution. <i>Analyst, The</i> , 2012 , 137, 575-9	5	53
158	Miniaturization of analytical techniques on a chip. <i>Journal of Pharmacy and Pharmacology</i> , 2011 , 50, 42-42	4.8	1
157	Phaseguides: a paradigm shift in microfluidic priming and emptying. <i>Lab on A Chip</i> , 2011 , 11, 1596-602	7.2	122

156	Latest developments in microfluidic cell biology and analysis systems. <i>Analytical Chemistry</i> , 2010 , 82, 4848-64	7.8	179
155	Latest developments in micro total analysis systems. <i>Analytical Chemistry</i> , 2010 , 82, 4830-47	7.8	372
154	Microfluidic imaging: A novel concept for pixelation of chemical and biological samples. <i>Sensors and Actuators B: Chemical</i> , 2009 , 137, 781-788	8.5	4
153	Micro total analysis systems: latest achievements. <i>Analytical Chemistry</i> , 2008 , 80, 4403-19	7.8	354
152	Massively parallel production of lipid microstructures. <i>Lab on A Chip</i> , 2008 , 8, 1852-5	7.2	9
151	Channel-free shear driven circular liquid chromatography. <i>Lab on A Chip</i> , 2008 , 8, 1784-6	7.2	7
150	Labelling of proteins with 2-(4-isothiocyanatobenzyl)-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid and lanthanides and detection by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 1497	3.7	74
149	Lipid nanotubule fabrication by microfluidic tweezing. <i>Langmuir</i> , 2008 , 24, 6754-8	4	17
148	Detection of electrophoretically separated cytochromes P450 by element-labelled monoclonal antibodies via laser ablation inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 1135-47	4.4	32
147	Concomitant detection of CYP1A1 enzymatic activity and CYP1A1 protein in individual cells of a human urothelial cell line using a bilayer microfluidic device. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 1159-66	4.4	8
146	Microfluidics: applications for analytical purposes in chemistry and biochemistry. <i>Electrophoresis</i> , 2008 , 29, 4443-53	3.6	292
145	Whole genome amplification on poly(dimethylsiloxane) microchip array. <i>Analytical Biochemistry</i> , 2008 , 372, 128-30	3.1	5
144	Bilayer microfluidic chip for diffusion-controlled activation of yeast species. <i>Journal of Chromatography A</i> , 2008 , 1206, 77-82	4.5	8
143	Detection of phosphorylated proteins blotted onto membranes using laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 1023	3.7	37
142	micro-Hotplate enhanced optical heating by infrared light for single cell treatment. <i>Lab on A Chip</i> , 2007 , 7, 1509-14	7.2	14
141	Total nucleic acid analysis integrated on microfluidic devices. <i>Lab on A Chip</i> , 2007 , 7, 1413-23	7.2	159
140	Temperature gradient focusing in a PDMS/glass hybrid microfluidic chip. <i>Electrophoresis</i> , 2007 , 28, 4606-16	3.6	36
139	Ultrasensitive PCR and real-time detection from human genomic samples using a bidirectional flow microreactor. <i>Analytical Chemistry</i> , 2007 , 79, 9185-90	7.8	42

138	On-chip free-flow magnetophoresis: Separation and detection of mixtures of magnetic particles in continuous flow. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 307, 237-244	2.8	97
137	Electrostatic induction of the electric field into free-flow electrophoresis devices. <i>Lab on A Chip</i> , 2006 , 6, 710-3	7.2	36
136	On-chip extrusion of lipid vesicles and tubes through microsized apertures. <i>Lab on A Chip</i> , 2006 , 6, 488-93	7.2	54
135	Miniaturised isotachopheresis analysis. <i>Lab on A Chip</i> , 2006 , 6, 474-87	7.2	52
134	Isotachopheresis in free-flow using a miniaturized device. <i>Analytical Chemistry</i> , 2006 , 78, 3815-9	7.8	51
133	Lab-on-a-chip: microfluidics in drug discovery. <i>Nature Reviews Drug Discovery</i> , 2006 , 5, 210-8	64.1	1259
132	Scaling and the design of miniaturized chemical-analysis systems. <i>Nature</i> , 2006 , 442, 374-80	50.4	565
131	Construction and analytical application of an on-column photo reactor for improved detection of iron-species as plant metabolites in capillary flow injection and capillary electrophoresis. <i>Journal of Chromatography A</i> , 2006 , 1130, 212-8	4.5	11
130	Micro total analysis systems. Latest advancements and trends. <i>Analytical Chemistry</i> , 2006 , 78, 3887-908	7.8	807
129	Direct optical emission spectroscopy of liquid analytes using an electrolyte as a cathode discharge source (ELCAD) integrated on a micro-fluidic chip. <i>Lab on A Chip</i> , 2005 , 5, 711-8	7.2	46
128	Shear-driven pumping and Fourier transform detection for on chip circular chromatography applications. <i>Lab on A Chip</i> , 2005 , 5, 764-71	7.2	26
127	Laser induced disruption of bacterial spores on a microchip. <i>Lab on A Chip</i> , 2005 , 5, 374-7	7.2	10
126	Dry powder injection on chip. <i>Lab on A Chip</i> , 2005 , 5, 140-5	7.2	11
125	Toward on-chip X-ray analysis. <i>Lab on A Chip</i> , 2005 , 5, 382-91	7.2	32
124	Single-molecule fluorescence detection in microfluidic channels--the Holy Grail in muTAS?. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 1771-82	4.4	141
123	Cyclic electrophoretic and chromatographic separation methods. <i>Electrophoresis</i> , 2004 , 25, 243-52	3.6	18
122	A double plasma gas chromatography injector and detector. <i>Lab on A Chip</i> , 2004 , 4, 431-7	7.2	13
121	Miniaturised nucleic acid analysis. <i>Lab on A Chip</i> , 2004 , 4, 534-46	7.2	198

120	Electrophoretic manipulation of single DNA molecules in nanofabricated capillaries. <i>Lab on A Chip</i> , 2004 , 4, 225-9	7.2	74
119	An AC electroosmotic micropump for circular chromatographic applications. <i>Lab on A Chip</i> , 2004 , 4, 396-400	7.2	66
118	Sequential DNA hybridisation assays by fast micromixing. <i>Lab on A Chip</i> , 2004 , 4, 506-11	7.2	30
117	On-chip free-flow magnetophoresis: continuous flow separation of magnetic particles and agglomerates. <i>Analytical Chemistry</i> , 2004 , 76, 7250-6	7.8	375
116	Micro total analysis systems. Recent developments. <i>Analytical Chemistry</i> , 2004 , 76, 3373-85	7.8	843
115	Advances in capillary electrochromatography and micro-high performance liquid chromatography monolithic columns for separation science. <i>Electrophoresis</i> , 2003 , 24, 917-44	3.6	203
114	A circular ac magnetohydrodynamic micropump for chromatographic applications. <i>Sensors and Actuators B: Chemical</i> , 2003 , 92, 215-221	8.5	80
113	A microfluidic device with an integrated waveguide beam splitter for velocity measurements of flowing particles by Fourier transformation. <i>Analytical Chemistry</i> , 2003 , 75, 4931-6	7.8	38
112	Micromixer-based time-resolved NMR: applications to ubiquitin protein conformation. <i>Analytical Chemistry</i> , 2003 , 75, 956-60	7.8	78
111	High-speed free-flow electrophoresis on chip. <i>Analytical Chemistry</i> , 2003 , 75, 5759-66	7.8	101
110	Time-resolved Fourier transform infrared spectrometry using a microfabricated continuous flow mixer: application to protein conformation study using the example of ubiquitin. <i>Lab on A Chip</i> , 2003 , 3, 82-5	7.2	42
109	Guiding DC glow discharge in microchannels. <i>Lab on A Chip</i> , 2003 , 3, 137-40	7.2	5
108	Counting and sizing of particles and particle agglomerates in a microfluidic device using laser light scattering: application to a particle-enhanced immunoassay. <i>Lab on A Chip</i> , 2003 , 3, 187-92	7.2	86
107	Poly(dimethylsiloxane) electrospay devices fabricated with diamond-like carbon-poly(dimethylsiloxane) coated SU-8 masters. <i>Lab on A Chip</i> , 2003 , 3, 67-72	7.2	74
106	Sub-second isoelectric focusing in free flow using a microfluidic device. <i>Lab on A Chip</i> , 2003 , 3, 224-7	7.2	87
105	Trends in Microfluidic Devices for Analytical Chemistry 2003 , 101-134		1
104	On-line on-chip post-column derivatisation reactions for pre-ionisation of analytes and cluster analysis in gradient micro-liquid chromatography/electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 1377-88	2.2	19
103	A Miniaturized Glow Discharge Optical Emission Detector for Aqueous Analytes 2002 , 266-268		

102	A miniaturized glow discharge applied for optical emission detection in aqueous analytes. <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, N19-N22	2	42
101	Micro total analysis systems. 1. Introduction, theory, and technology. <i>Analytical Chemistry</i> , 2002 , 74, 2623-86		1871
100	Three-dimensional microfluidic confinement for efficient sample delivery to biosensor surfaces. application to immunoassays on planar optical waveguides. <i>Analytical Chemistry</i> , 2002 , 74, 5243-50	7.8	119
99	Micro total analysis systems. 2. Analytical standard operations and applications. <i>Analytical Chemistry</i> , 2002 , 74, 2637-52	7.8	1362
98	Glow discharge in microfluidic chips for visible analog computing. <i>Lab on A Chip</i> , 2002 , 2, 113-6	7.2	58
97	Evaporation driven pumping for chromatography application. <i>Lab on A Chip</i> , 2002 , 2, 219-23	7.2	71
96	Towards an on-chip gas chromatograph: the development of a gas injector and a dc plasma emission detector. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 794-799	3.7	46
95	Injection Modes for Evaporation Driven Continuous Liquid Flow 2002 , 166-168		
94	Free Flow Electrophoresis Device Showing Sub-second Isoelectric Focusing for a Peptide 2002 , 539-541		
93	SHAH Convolution Fourier Transform Detection of Particle Velocities by Using an Integrated 1128 Planar Waveguide Beamsplitter 2002 , 636-638		
92	DNA Extraction from Bacterial Cells by Reverse Electroporation and Splitt Methods on A Microfabricated Device 2002 , 817-819		
91	Protein Dynamics Study Using a Continuous-Flow Microfluidic Mixer 2002 , 518-520		
90	Electric Field Assisted Extraction and Focusing of Fingerprint Residues by Means of A Microfluidic Device 2002 , 865-867		
89	Synchronized cyclic capillary electrophoresis using channels arranged in a triangle and low voltages. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 371, 195-201		16
88	Microfabricated devices for fluid mixing and their application for chemical synthesis. <i>Chemical Record</i> , 2001 , 1, 395-405	6.6	89
87	Shah convolution Fourier transform detection: multiple-sample injection technique. <i>Electrophoresis</i> , 2001 , 22, 222-9	3.6	21
86	Shah convolution differentiation Fourier transform for rear analysis in microchip capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001 , 924, 177-86	4.5	12
85	Optical Emission Detection of Liquid Analytes Using a Micro-Machined D.C. Glow-Discharge Device at Atmospheric Pressure 2001 , 349-350		7

84	Miniaturization and chip technology. What can we expect?. <i>Pure and Applied Chemistry</i> , 2001 , 73, 1555-1561		60
83	A wireless electrochemiluminescence detector applied to direct and indirect detection for electrophoresis on a microfabricated glass device. <i>Analytical Chemistry</i> , 2001 , 73, 3282-8	7.8	272
82	Modular approach to fabrication of three-dimensional microchannel systems in PDMS-application to sheath flow microchips. <i>Lab on A Chip</i> , 2001 , 1, 108-14	7.2	43
81	Microchip-based synthesis and total analysis systems (µSYNTAS):chemical microprocessing for generation and analysis of compound libraries. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001 , 514-518		52
80	Characterisation of Shah convolution Fourier transform detection. <i>Analyst, The</i> , 2001 , 126, 1640-1644	5	6
79	Wavelet transform for Shah convolution velocity measurements of single particles and solutes in a microfluidic chip. <i>Lab on A Chip</i> , 2001 , 1, 122-6	7.2	9
78	Narrow sample channel injectors for capillary electrophoresis on microchips. <i>Analytical Chemistry</i> , 2001 , 73, 2656-62	7.8	104
77	Velocity measurement of particles flowing in a microfluidic chip using Shah convolution Fourier transform detection. <i>Analytical Chemistry</i> , 2001 , 73, 1748-53	7.8	27
76	A Wireless Electrochemiluminescence Detector Applied to Direct and Indirect Detection for Electrophoresis on a Microfabricated Glass Device. <i>Analytical Chemistry</i> , 2001 , 73, 5633-5633	7.8	16
75	Using Microfluidic Systems as Analog Devices for Solving Computational Problems 2001 , 37-39		
74	Novel Injection Methods for Miniaturised Gas Chromatography 2001 , 655-657		1
73	Towards Evaporation-Driven HPLC on a Chip: An Alternative Transport Process for Micro Analysis Systems 2001 , 375-376		1
72	Development of a Micro System for Circular Chromatography Using Wavelet Transform Detection 2001 , 541-542		3
71	On-Chip Post-Column Derivatisation Reactions in Capillary Liquid Chromatography [Mass Spectrometry 2001 , 222-223		2
70	Chip-based microsystems for genomic and proteomic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2000 , 19, 364-378	14.6	295
69	Indirect fluorescence detection of phenolic compounds by capillary electrophoresis on a glass device. <i>Fresenius Journal of Analytical Chemistry</i> , 2000 , 367, 686-91		12
68	The Incredibly Shrinking Laboratory Reactions, Separations and Detections. <i>Journal of the Association for Laboratory Automation</i> , 2000 , 5, 40-45		1
67	On-line monitoring of chromium(III) using a fast micromachined mixer/reactor and chemiluminescence detection. <i>Analyst, The</i> , 2000 , 125, 677-683	5	54

66	An atmospheric pressure dc glow discharge on a microchip and its application as a molecular emission detector. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 297-300	3.7	67
65	Integrated potentiometric detector for use in chip-based flow cells. <i>Analytical Chemistry</i> , 2000 , 72, 2875-88		56
64	A dc microplasma on a chip employed as an optical emission detector for gas chromatography. <i>Analytical Chemistry</i> , 2000 , 72, 2547-52	7.8	130
63	Towards Organic Synthesis in Microfluidic Devices: Multicomponent Reactions for the Construction of Compound Libraries 2000 , 463-465		8
62	An Atmospheric Pressure Plasma on a Chip Applied as a Molecular Emission Detector in Gas Chromatography 2000 , 591-594		4
61	Shah Convolution Fourier Transform Detection 2000 , 603-606		1
60	Microbiology On-a-Chip 2000 , 111-114		4
59	Chip technology for micro-separation 1999 , 129-177		1
58	Towards Integrated Continuous-Flow Chemical Reactors. <i>Mikrochimica Acta</i> , 1999 , 131, 19-24	5.8	72
57	Microstructure for efficient continuous flow mixing. <i>Analytical Communications</i> , 1999 , 36, 213-215		324
56	A Molecular Emission Detector on a Chip Employing a Direct Current Microplasma. <i>Analytical Chemistry</i> , 1999 , 71, 2600-2606	7.8	117
55	Shah convolution fourier transform detection. <i>Analytical Chemistry</i> , 1999 , 71, 2130-8	7.8	57
54	Micromachined heated chemical reactor for pre-column derivatisation. <i>Journal of Chromatography A</i> , 1998 , 815, 265-271	4.5	25
53	Planar quartz chips with submicron channels for two-dimensional capillary electrophoresis applications. <i>Journal of Micromechanics and Microengineering</i> , 1998 , 8, 24-28	2	77
52	Integrated Capillary Electrophoresis for Chemical Analysis. <i>Sensors Update</i> , 1998 , 3, 209-238		2
51	Holographic refractive index detector for application in microchip-based separation systems. <i>Analyst, The</i> , 1998 , 123, 1443-1447	5	69
50	Continuous Flow Versus Batch Process A few Examples 1998 , 235-240		7
49	Chemical amplification: continuous-flow PCR on a chip. <i>Science</i> , 1998 , 280, 1046-8	33.3	988

48	Continuous Flow PCR on A Chip 1998 , 7-10		7
47	Novel instrumentation for real-time monitoring using miniaturized flow systems with integrated biosensors. <i>Annals of Clinical Biochemistry</i> , 1997 , 34 (Pt 3), 291-302	2.2	43
46	Ultimate speed and sample volumes in electrophoresis. <i>Biochemical Society Transactions</i> , 1997 , 25, 278-81	3.1	8
45	Sub-microliter Electrochemiluminescence Detector A Model for Small Volume Analysis Systems. <i>Analytical Communications</i> , 1997 , 34, 393-395		42
44	Developments in technology and applications of microsystems. <i>Current Opinion in Chemical Biology</i> , 1997 , 1, 410-9	9.7	79
43	Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples. <i>Analytica Chimica Acta</i> , 1997 , 346, 341-349	6.6	100
42	Micellar electrokinetic chromatography separations and analyses of biological samples on a cyclic planar microstructure. <i>Analytical Chemistry</i> , 1996 , 68, 2044-53	7.8	180
41	Continuous separation of high molecular weight compounds using a microliter volume free-flow electrophoresis microstructure. <i>Analytical Chemistry</i> , 1996 , 68, 2515-22	7.8	125
40	Characterization of electrophoretic sample injection and separation in a gel-filled cyclic planar microstructure. <i>Journal of Separation Science</i> , 1996 , 8, 373-381		23
39	Characterization of electrophoretic sample injection and separation in a gel-filled cyclic planar microstructure 1996 , 8, 373		1
38	μ -TAS: Miniaturized Total Chemical Analysis Systems 1995 , 5-27		27
37	Microsystems for Analysis in Flowing Solutions 1995 , 181-190		5
36	Manipulation of Sample Fractions on a Capillary Electrophoresis Chip. <i>Analytical Chemistry</i> , 1995 , 67, 2284-2287	7.8	94
35	Continuous Sample Pretreatment Using a Free-Flow Electrophoresis Device Integrated onto a Silicon Chip. <i>Analytical Chemistry</i> , 1994 , 66, 2858-2865	7.8	239
34	A novel approach to ion separations in solution: synchronized cyclic capillary electrophoresis (SCCE). <i>Sensors and Actuators B: Chemical</i> , 1994 , 20, 103-110	8.5	66
33	Planar chip technology for capillary electrophoresis. <i>Fresenius Journal of Analytical Chemistry</i> , 1994 , 348, 567-571		29
32	High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device. <i>Analytical Chemistry</i> , 1994 , 66, 2949-2953	7.8	316
31	Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems. <i>Journal of Micromechanics and Microengineering</i> , 1994 , 4, 257-265	2	232

30	Three-dimensional micro flow manifolds for miniaturized chemical analysis systems. <i>Journal of Micromechanics and Microengineering</i> , 1994 , 4, 246-256	2	66
29	Measurements of Creatinine in Physiological Samples by Means of Enzymatic Biosensors: Comparison of the Microcalorimetric and Amperometric Approaches 1994 , 138-140		
28	Planar glass chips for capillary electrophoresis: repetitive sample injection, quantitation, and separation efficiency. <i>Analytical Chemistry</i> , 1993 , 65, 1481-1488	7.8	247
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4	Parallel capillaries for high throughput in electrophoretic separations and electroosmotic drug discovery systems		2
3	Miniaturized chemical analysis systems based on electroosmotic flow		6
2	Can microTAS be alternatives for sensors?		1
1	Continuous Sample Preparation Using Free-flow electrophoresis On A Silicon Microstructure		2