

Andreas Manz

List of Publications by Year in descending order

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times ranked

14954
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#	ARTICLE	IF	CITATIONS
1	Miniaturized total chemical analysis systems: A novel concept for chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 244-248.	4.0	2,605
2	Micro Total Analysis Systems. 1. Introduction, Theory, and Technology. <i>Analytical Chemistry</i> , 2002, 74, 2623-2636.	3.2	2,122
3	Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip. <i>Science</i> , 1993, 261, 895-897.	6.0	1,749
4	Micro Total Analysis Systems. 2. Analytical Standard Operations and Applications. <i>Analytical Chemistry</i> , 2002, 74, 2637-2652.	3.2	1,518
5	Lab-on-a-chip: microfluidics in drug discovery. <i>Nature Reviews Drug Discovery</i> , 2006, 5, 210-218.	21.5	1,506
6	Capillary electrophoresis and sample injection systems integrated on a planar glass chip. <i>Analytical Chemistry</i> , 1992, 64, 1926-1932.	3.2	1,191
7	Chemical Amplification: Continuous-Flow PCR on a Chip. <i>Science</i> , 1998, 280, 1046-1048.	6.0	1,167
8	Planar chips technology for miniaturization and integration of separation techniques into monitoring systems. <i>Journal of Chromatography A</i> , 1992, 593, 253-258.	1.8	978
9	Micro Total Analysis Systems. Recent Developments. <i>Analytical Chemistry</i> , 2004, 76, 3373-3386.	3.2	950
10	Micro Total Analysis Systems. Latest Advancements and Trends. <i>Analytical Chemistry</i> , 2006, 78, 3887-3908.	3.2	909
11	Scaling and the design of miniaturized chemical-analysis systems. <i>Nature</i> , 2006, 442, 374-380.	13.7	635
12	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. <i>Advanced Materials</i> , 2019, 31, e1806739.	11.1	540
13	Glass chips for high-speed capillary electrophoresis separations with submicrometer plate heights. <i>Analytical Chemistry</i> , 1993, 65, 2637-2642.	3.2	538
14	On-Chip Free-Flow Magnetophoresis: A Continuous Flow Separation of Magnetic Particles and Agglomerates. <i>Analytical Chemistry</i> , 2004, 76, 7250-7256.	3.2	435
15	Revisiting lab-on-a-chip technology for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2012, 11, 620-632.	21.5	422
16	Latest Developments in Micro Total Analysis Systems. <i>Analytical Chemistry</i> , 2010, 82, 4830-4847.	3.2	411
17	Micro Total Analysis Systems: Latest Achievements. <i>Analytical Chemistry</i> , 2008, 80, 4403-4419.	3.2	397
18	Microstructure for efficient continuous flow mixing. <i>Analytical Communications</i> , 1999, 36, 213-215.	2.2	375

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19	High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device. <i>Analytical Chemistry</i> , 1994, 66, 2949-2953.	3.2	351
20	Chip-based microsystems for genomic and proteomic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2000, 19, 364-378.	5.8	343
21	Microfluidics: Applications for analytical purposes in chemistry and biochemistry. <i>Electrophoresis</i> , 2008, 29, 4443-4453.	1.3	338
22	A Wireless Electrochemiluminescence Detector Applied to Direct and Indirect Detection for Electrophoresis on a Microfabricated Glass Device. <i>Analytical Chemistry</i> , 2001, 73, 3282-3288.	3.2	303
23	Design of an open-tubular column liquid chromatograph using silicon chip technology. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 249-255.	4.0	289
24	Planar glass chips for capillary electrophoresis: repetitive sample injection, quantitation, and separation efficiency. <i>Analytical Chemistry</i> , 1993, 65, 1481-1488.	3.2	285
25	Continuous Sample Pretreatment Using a Free-Flow Electrophoresis Device Integrated onto a Silicon Chip. <i>Analytical Chemistry</i> , 1994, 66, 2858-2865.	3.2	284
26	Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems. <i>Journal of Micromechanics and Microengineering</i> , 1994, 4, 257-265.	1.5	266
27	Miniaturised nucleic acid analysis. <i>Lab on A Chip</i> , 2004, 4, 534.	3.1	217
28	Micromachining of monocrystalline silicon and glass for chemical analysis systems A look into next century's technology or just a fashionable craze?. <i>TrAC - Trends in Analytical Chemistry</i> , 1991, 10, 144-149.	5.8	214
29	Advances in capillary electrochromatography and micro-high performance liquid chromatography monolithic columns for separation science. <i>Electrophoresis</i> , 2003, 24, 917-944.	1.3	212
30	Polymerase chain reaction in microfluidic devices. <i>Lab on A Chip</i> , 2016, 16, 3866-3884.	3.1	210
31	Micellar Electrokinetic Chromatography Separations and Analyses of Biological Samples on a Cyclic Planar Microstructure. <i>Analytical Chemistry</i> , 1996, 68, 2044-2053.	3.2	205
32	Latest Developments in Microfluidic Cell Biology and Analysis Systems. <i>Analytical Chemistry</i> , 2010, 82, 4848-4864.	3.2	194
33	Total nucleic acid analysis integrated on microfluidic devices. <i>Lab on A Chip</i> , 2007, 7, 1413.	3.1	174
34	Phaseguides: a paradigm shift in microfluidic priming and emptying. <i>Lab on A Chip</i> , 2011, 11, 1596.	3.1	171
35	Single-molecule fluorescence detection in microfluidic channels—the Holy Grail in TAS?. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1771-1782.	1.9	169
36	A dc Microplasma on a Chip Employed as an Optical Emission Detector for Gas Chromatography. <i>Analytical Chemistry</i> , 2000, 72, 2547-2552.	3.2	154

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37	Continuous Separation of High Molecular Weight Compounds Using a Microliter Volume Free-Flow Electrophoresis Microstructure. <i>Analytical Chemistry</i> , 1996, 68, 2515-2522.	3.2	145
38	Towards miniaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 1993, 10, 107-116.	4.0	144
39	Present state of microchip electrophoresis: State of the art and routine applications. <i>Journal of Chromatography A</i> , 2015, 1382, 66-85.	1.8	144
40	Three-Dimensional Microfluidic Confinement for Efficient Sample Delivery to Biosensor Surfaces. Application to Immunoassays on Planar Optical Waveguides. <i>Analytical Chemistry</i> , 2002, 74, 5243-5250.	3.2	143
41	A Molecular Emission Detector on a Chip Employing a Direct Current Microplasma. <i>Analytical Chemistry</i> , 1999, 71, 2600-2606.	3.2	141
42	High-Speed Free-Flow Electrophoresis on Chip. <i>Analytical Chemistry</i> , 2003, 75, 5759-5766.	3.2	137
43	Narrow Sample Channel Injectors for Capillary Electrophoresis on Microchips. <i>Analytical Chemistry</i> , 2001, 73, 2656-2662.	3.2	118
44	Manipulation of Sample Fractions on a Capillary Electrophoresis Chip. <i>Analytical Chemistry</i> , 1995, 67, 2284-2287.	3.2	112
45	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.	2.6	110
46	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.	3.1	110
47	Sub-second isoelectric focusing in free flow using a microfluidic device. <i>Lab on A Chip</i> , 2003, 3, 224.	3.1	110
48	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.	1.0	109
49	A silicon flow cell for optical detection in miniaturized total chemical analysis systems. <i>Sensors and Actuators B: Chemical</i> , 1992, 6, 66-70.	4.0	101
50	Microfabricated devices for fluid mixing and their application for chemical synthesis. <i>Chemical Record</i> , 2001, 1, 395-405.	2.9	101
51	Developments in technology and applications of microsystems. <i>Current Opinion in Chemical Biology</i> , 1997, 1, 410-419.	2.8	96
52	Handheld real-time PCR device. <i>Lab on A Chip</i> , 2016, 16, 586-592.	3.1	96
53	A circular ac magnetohydrodynamic micropump for chromatographic applications. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 215-221.	4.0	91
54	An integrated silicon thermopile as biosensor for the thermal monitoring of glucose, urea and penicillin. <i>Biosensors and Bioelectronics</i> , 1993, 8, 89-98.	5.3	90

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55	Micromixer-Based Time-Resolved NMR: Applications to Ubiquitin Protein Conformation. <i>Analytical Chemistry</i> , 2003, 75, 956-960.	3.2	86
56	Planar quartz chips with submicron channels for two-dimensional capillary electrophoresis applications. <i>Journal of Micromechanics and Microengineering</i> , 1998, 8, 24-28.	1.5	85
57	Towards Integrated Continuous-Flow Chemical Reactors. <i>Mikrochimica Acta</i> , 1999, 131, 19-24.	2.5	85
58	Poly(dimethylsiloxane) electrospray devices fabricated with diamond-like carbon-poly(dimethylsiloxane) coated SU-8 masters. <i>Lab on A Chip</i> , 2003, 3, 67-72.	3.1	83
59	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.	1.6	82
60	Evaporation driven pumping for chromatography application. <i>Lab on A Chip</i> , 2002, 2, 219.	3.1	82
61	Electrophoretic manipulation of single DNA molecules in nanofabricated capillaries Electronic supplementary information (ESI) available: Four videoclips showing the movement of DNA molecules in nanocapillaries. See http://www.rsc.org/suppdata/lc/b3/b312592k/ . <i>Lab on A Chip</i> , 2004, 4, 225.	3.1	82
62	A novel approach to ion separations in solution: synchronized cyclic capillary electrophoresis (SCCE). <i>Sensors and Actuators B: Chemical</i> , 1994, 20, 103-110.	4.0	81
63	Holographic refractive index detector for application in microchip-based separation systems. <i>Analyst</i> , 1998, 123, 1443-1447.	1.7	81
64	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.	1.6	80
65	Three-dimensional micro flow manifolds for miniaturized chemical analysis systems. <i>Journal of Micromechanics and Microengineering</i> , 1994, 4, 246-256.	1.5	79
66	On-chip three-dimensional cell culture in phaseguides improves hepatocyte functions <i>in vitro</i> . <i>Biomicrofluidics</i> , 2015, 9, 034113.	1.2	78
67	An AC electroosmotic micropump for circular chromatographic applications. <i>Lab on A Chip</i> , 2004, 4, 396.	3.1	76
68	Terahertz-time domain spectroscopy for the detection of PCR amplified DNA in aqueous solution. <i>Analyst</i> , 2012, 137, 575-579.	1.7	75
69	Miniaturization and chip technology. What can we expect?. <i>Pure and Applied Chemistry</i> , 2001, 73, 1555-1561.	0.9	72
70	Isotachopheresis in Free-Flow Using a Miniaturized Device. <i>Analytical Chemistry</i> , 2006, 78, 3815-3819.	3.2	72
71	Glow discharge in microfluidic chips for visible analog computing. <i>Lab on A Chip</i> , 2002, 2, 113.	3.1	67
72	Synchronized cyclic capillary electrophoresis—a novel approach to ion separations in solution. <i>Journal of High Resolution Chromatography</i> , 1993, 16, 594-596.	2.0	64

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73	Integrated Potentiometric Detector for Use in Chip-Based Flow Cells. <i>Analytical Chemistry</i> , 2000, 72, 2875-2878.	3.2	64
74	Shah Convolution Fourier Transform Detection. <i>Analytical Chemistry</i> , 1999, 71, 2130-2138.	3.2	63
75	On-line monitoring of chromium(iii) using a fast micromachined mixer/reactor and chemiluminescence detection. <i>Analyst, The</i> , 2000, 125, 677-683.	1.7	63
76	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.	1.3	61
77	On-chip extrusion of lipid vesicles and tubes through microsized apertures. <i>Lab on A Chip</i> , 2006, 6, 488.	3.1	61
78	Picoliter Cell Volume Potentiometric Detector for Open-Tubular Column LC. <i>Journal of Chromatographic Science</i> , 1983, 21, 326-330.	0.7	60
79	Potentiometric detector for fast high-performance open-tubular column liquid chromatography. <i>Analytical Chemistry</i> , 1987, 59, 74-79.	3.2	59
80	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.	1.6	58
81	Palm-Sized Device for Point-of-Care Ebola Detection. <i>Analytical Chemistry</i> , 2016, 88, 4803-4807.	3.2	57
82	Rapid separation of fluorescein derivatives using a micromachined capillary eletrophoresis system. <i>Analytica Chimica Acta</i> , 1993, 283, 361-366.	2.6	56
83	Sub-microliter Electrochemiluminescence Detector – A Model for Small Volume Analysis Systems. <i>Analytical Communications</i> , 1997, 34, 393-395.	2.2	54
84	Miniaturised isotachopheresis analysis. <i>Lab on A Chip</i> , 2006, 6, 474.	3.1	54
85	Electrostatic induction of the electric field into free-flow electrophoresis devices. <i>Lab on A Chip</i> , 2006, 6, 710.	3.1	53
86	Modular approach to fabrication of three-dimensional microchannel systems in PDMS – application to sheath flow microchips. <i>Lab on A Chip</i> , 2001, 1, 108-114.	3.1	51
87	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.	3.1	51
88	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, 2168-2176.	3.1	50
89	Novel Instrumentation for Real-Time Monitoring Using Miniaturized Flow Systems with Integrated Biosensors. <i>Annals of Clinical Biochemistry</i> , 1997, 34, 291-302.	0.8	49
90	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.	1.5	49

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91	Temperature gradient focusing in a PDMS/glass hybrid microfluidic chip. <i>Electrophoresis</i> , 2007, 28, 4606-4611.	1.3	48
92	Acoustofluidic Chemical Waveform Generator and Switch. <i>Analytical Chemistry</i> , 2014, 86, 11803-11810.	3.2	48
93	A miniaturized glow discharge applied for optical emission detection in aqueous analytes. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, N19-N22.	1.5	47
94	Ultrasensitive PCR and Real-Time Detection from Human Genomic Samples Using a Bidirectional Flow Microreactor. <i>Analytical Chemistry</i> , 2007, 79, 9185-9190.	3.2	46
95	Miniaturization of separation techniques using planar chip technology. <i>Journal of High Resolution Chromatography</i> , 1993, 16, 433-436.	2.0	43
96	A Microfluidic Device with an Integrated Waveguide Beam Splitter for Velocity Measurements of Flowing Particles by Fourier Transformation. <i>Analytical Chemistry</i> , 2003, 75, 4931-4936.	3.2	43
97	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.	3.1	43
98	Plant leaves as templates for soft lithography. <i>RSC Advances</i> , 2016, 6, 22469-22475.	1.7	42
99	Detection of phosphorylated proteins blotted onto membranes using laser ablation inductively coupled plasma mass spectrometry : Part 1: Optimisation of a calibration procedure. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1023.	1.6	38
100	Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model. <i>Sensors and Actuators B: Chemical</i> , 1993, 17, 19-25.	4.0	37
101	Sequential DNA hybridisation assays by fast micromixing. <i>Lab on A Chip</i> , 2004, 4, 506.	3.1	36
102	Toward on-chip X-ray analysis. <i>Lab on A Chip</i> , 2005, 5, 382.	3.1	36
103	Velocity Measurement of Particles Flowing in a Microfluidic Chip Using Shah Convolution Fourier Transform Detection. <i>Analytical Chemistry</i> , 2001, 73, 1748-1753.	3.2	35
104	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, 1135-1147.	1.9	35
105	Åµ-TAS: Miniaturized Total Chemical Analysis Systems. , 1995, , 5-27.		34
106	Planar chip technology for capillary electrophoresis. <i>Fresenius' Journal of Analytical Chemistry</i> , 1994, 348, 567-571.	1.5	33
107	Proteinâ€“Carbohydrate Complex Reveals Circulating Metastatic Cells in a Microfluidic Assay. <i>Small</i> , 2013, 9, 2152-2161.	5.2	32
108	Shear-driven pumping and Fourier transform detection for on chip circular chromatography applications. <i>Lab on A Chip</i> , 2005, 5, 764.	3.1	31

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109	Injectors for open-tubular column liquid chromatography with 106 theoretical plates at retention times in the minute range. <i>Journal of Chromatography A</i> , 1987, 387, 187-196.	1.8	30
110	A facile in situ microfluidic method for creating multivalent surfaces: toward functional glycomics. <i>Lab on A Chip</i> , 2012, 12, 1500.	3.1	30
111	Micromachined heated chemical reactor for pre-column derivatisation. <i>Journal of Chromatography A</i> , 1998, 815, 265-271.	1.8	28
112	Characterization of electrophoretic sample injection and separation in a gel-filled cyclic planar microstructure. <i>Journal of Separation Science</i> , 1996, 8, 373-381.	1.0	26
113	Shah convolution Fourier transform detection: Multiple-sample injection technique. <i>Electrophoresis</i> , 2001, 22, 222-229.	1.3	25
114	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.	1.1	24
115	Single Fluorescence Channel-based Multiplex Detection of Avian Influenza Virus by Quantitative PCR with Intercalating Dye. <i>Scientific Reports</i> , 2015, 5, 11479.	1.6	24
116	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.	1.3	23
117	Plasmonic heating-based portable digital PCR system. <i>Lab on A Chip</i> , 2020, 20, 3560-3568.	3.1	22
118	Cyclic electrophoretic and chromatographic separation methods. <i>Electrophoresis</i> , 2004, 25, 243-252.	1.3	21
119	Galectin-3 coats the membrane of breast cells and makes a signature of tumours. <i>Molecular BioSystems</i> , 2014, 10, 258-265.	2.9	21
120	Direct coupling of a free-flow isotachopheresis (FFITP) device with electrospray ionization mass spectrometry (ESI-MS). <i>Lab on A Chip</i> , 2015, 15, 3495-3502.	3.1	21
121	On-line on-chip post-column derivatisation reactions for pre-ionisation of analytes and cluster analysis in gradient liquid chromatography/electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1377-1388.	0.7	20
122	Lipid Nanotubule Fabrication by Microfluidic Tweezing. <i>Langmuir</i> , 2008, 24, 6754-6758.	1.6	20
123	Miniaturised total chemical-analysis systems (µTAS) that periodically convert chemical into electronic information. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1334-1345.	4.0	20
124	Synchronized cyclic capillary electrophoresis using channels arranged in a triangle and low voltages. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 371, 195-201.	1.5	19
125	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.	4.0	18
126	Fully automatic integrated continuous-flow digital PCR device for absolute DNA quantification. <i>Analytica Chimica Acta</i> , 2020, 1125, 50-56.	2.6	18

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127	Flow injection analysis and in-line biosensors for bioprocess control: a comparison. <i>Journal of Biotechnology</i> , 1992, 25, 75-80.	1.9	17
128	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.	3.2	16
129	Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring. , 2021, , 1-66.		16
130	Indirect fluorescence detection of phenolic compounds by capillary electrophoresis on a glass device. <i>Fresenius' Journal of Analytical Chemistry</i> , 2000, 367, 686-691.	1.5	15
131	Å μ -Hotplate enhanced optical heating by infrared light for single cell treatment. <i>Lab on A Chip</i> , 2007, 7, 1509.	3.1	15
132	Detection of electrochemiluminescence from floating metal platelets in suspension. <i>Lab on A Chip</i> , 2013, 13, 781.	3.1	15
133	A double plasma gas chromatography injector and detector. <i>Lab on A Chip</i> , 2004, 4, 431.	3.1	14
134	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.	1.7	14
135	Shah convolution differentiation Fourier transform for rear analysis in microchip capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001, 924, 177-186.	1.8	13
136	Dry powder injection on chip. <i>Lab on A Chip</i> , 2005, 5, 140.	3.1	13
137	Magnetic response of <i>Magnetospirillum gryphiswaldense</i> observed inside a microfluidic channel. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 460, 340-353.	1.0	13
138	Transcriptomic and physiological analysis of endocrine disrupting chemicals Impacts on 3D Zebrafish liver cell culture system. <i>Aquatic Toxicology</i> , 2022, 245, 106105.	1.9	13
139	Membrane-free electroextraction using an aqueous two-phase system. <i>RSC Advances</i> , 2014, 4, 49485-49490.	1.7	12
140	Nanoliter-sized overheated reactor. <i>Applied Physics Letters</i> , 2015, 106, 024104.	1.5	12
141	Thermal gradient for fluorometric optimization of droplet PCR in virtual reaction chambers. <i>Mikrochimica Acta</i> , 2017, 184, 3433-3439.	2.5	12
142	Miniaturized chemical analysis systems based on electroosmotic flow. , 0, , .		11
143	Optical Emission Detection of Liquid Analytes Using a Micro-Machined D.C. Glow-Discharge Device at Atmospheric Pressure. , 2001, , 349-350.		11
144	Laser induced disruption of bacterial spores on a microchip. <i>Lab on A Chip</i> , 2005, 5, 374.	3.1	11

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145	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. Journal of Chromatography A, 2006, 1130, 212-218.	1.8	11
146	Online electroextraction in capillary electrophoresis: Application on the determination of glutamic acid in soy sauces. Electrophoresis, 2019, 40, 322-329.	1.3	11
147	An improved micro enzyme sensor for bioprocess monitoring by flow injection analysis. Sensors and Actuators B: Chemical, 1992, 7, 404-407.	4.0	10
148	Wavelet transform for Shah convolution velocity measurements of single particles and solutes in a microfluidic chip. Lab on A Chip, 2001, 1, 122.	3.1	10
149	Massively parallel production of lipid microstructures. Lab on A Chip, 2008, 8, 1852.	3.1	10
150	Pyrosequencing on a glass surface. Lab on A Chip, 2016, 16, 1063-1071.	3.1	10
151	Continuous Flow Versus Batch Process – A few Examples. , 1998, , 235-240.		9
152	Bilayer microfluidic chip for diffusion-controlled activation of yeast species. Journal of Chromatography A, 2008, 1206, 77-82.	1.8	9
153	Continuous Flow PCR on A Chip. , 1998, , 7-10.		9
154	Ultimate speed and sample volumes in electrophoresis. Biochemical Society Transactions, 1997, 25, 278-281.	1.6	8
155	Characterisation of Shah convolution Fourier transform detection. Analyst, The, 2001, 126, 1640-1644.	1.7	8
156	Concomitant detection of CYP1A1 enzymatic activity and CYP1A1 protein in individual cells of a human urothelial cell line using a bilayer microfluidic device. Analytical and Bioanalytical Chemistry, 2008, 392, 1159-1166.	1.9	8
157	Macroscopic equivalence for microscopic motion in a turbulence driven three-dimensional self-assembly reactor. Journal of Applied Physics, 2018, 123, .	1.1	8
158	Study of melatonin-mediated effects on various hepatic inflammatory responses stimulated by IL-6 in a new HepG2-on-a-chip platform. Biomedical Microdevices, 2018, 20, 54.	1.4	8
159	Microsystems for Analysis in Flowing Solutions. , 1995, , 181-190.		7
160	Channel-free shear driven circular liquid chromatography. Lab on A Chip, 2008, 8, 1784.	3.1	7
161	A Thermodynamic Description of Turbulence as a Source of Stochastic Kinetic Energy for 3D Self-Assembly. Advanced Materials Interfaces, 2020, 7, 1900963.	1.9	7
162	Implementing chemical sensors in industry: novel approaches. Sensors and Actuators B: Chemical, 1991, 5, 75-78.	4.0	6

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163	Fast spore breaking by superheating. Lab on A Chip, 2013, 13, 1695.	3.1	6
164	Biocompatibility assay of cellular behavior inside a leaf-inspired biomimetic microdevice at the single-cell level. RSC Advances, 2017, 7, 32710-32720.	1.7	6
165	Continuous Sample Preparation Using Free-flow electrophoresis On A Silicon Microstructure. , 0, , .		5
166	Parallel capillaries for high throughput in electrophoretic separations and electroosmotic drug discovery systems. , 0, , .		5
167	Guiding DC glow discharge in microchannels. Lab on A Chip, 2003, 3, 137.	3.1	5
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