

# Andreas Manz

## List of Publications by Citations

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209  
papers

24,647  
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66  
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156  
g-index

219  
ext. papers

26,718  
ext. citations

7.4  
avg, IF

6.93  
L-index

#	Paper	IF	Citations
209	Miniaturized total chemical analysis systems: A novel concept for chemical sensing. <i>Sensors and Actuators B: Chemical</i> , <b>1990</b> , 1, 244-248	8.5	2165
208	Micro total analysis systems. 1. Introduction, theory, and technology. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 2623-86		1871
207	Micromachining a miniaturized capillary electrophoresis-based chemical analysis system on a chip. <i>Science</i> , <b>1993</b> , 261, 895-7	33.3	1540
206	Micro total analysis systems. 2. Analytical standard operations and applications. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 2637-52	7.8	1362
205	Lab-on-a-chip: microfluidics in drug discovery. <i>Nature Reviews Drug Discovery</i> , <b>2006</b> , 5, 210-8	64.1	1259
204	Capillary electrophoresis and sample injection systems integrated on a planar glass chip. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 1926-1932	7.8	1010
203	Chemical amplification: continuous-flow PCR on a chip. <i>Science</i> , <b>1998</b> , 280, 1046-8	33.3	988
202	Planar chips technology for miniaturization and integration of separation techniques into monitoring systems. <i>Journal of Chromatography A</i> , <b>1992</b> , 593, 253-258	4.5	853
201	Micro total analysis systems. Recent developments. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 3373-85	7.8	843
200	Micro total analysis systems. Latest advancements and trends. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3887-908	7.8	807
199	Scaling and the design of miniaturized chemical-analysis systems. <i>Nature</i> , <b>2006</b> , 442, 374-80	50.4	565
198	Glass chips for high-speed capillary electrophoresis separations with submicrometer plate heights. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 2637-2642	7.8	468
197	On-chip free-flow magnetophoresis: continuous flow separation of magnetic particles and agglomerates. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 7250-6	7.8	375
196	Latest developments in micro total analysis systems. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4830-47	7.8	372
195	Revisiting lab-on-a-chip technology for drug discovery. <i>Nature Reviews Drug Discovery</i> , <b>2012</b> , 11, 620-32	64.1	362
194	Micro total analysis systems: latest achievements. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 4403-19	7.8	354
193	Microstructure for efficient continuous flow mixing. <i>Analytical Communications</i> , <b>1999</b> , 36, 213-215		324

192	High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2949-2953	7.8	316
191	Chip-based microsystems for genomic and proteomic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2000</b> , 19, 364-378	14.6	295
190	Microfluidics: applications for analytical purposes in chemistry and biochemistry. <i>Electrophoresis</i> , <b>2008</b> , 29, 4443-53	3.6	292
189	A wireless electrochemiluminescence detector applied to direct and indirect detection for electrophoresis on a microfabricated glass device. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 3282-8	7.8	272
188	Planar glass chips for capillary electrophoresis: repetitive sample injection, quantitation, and separation efficiency. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 1481-1488	7.8	247
187	Design of an open-tubular column liquid chromatograph using silicon chip technology. <i>Sensors and Actuators B: Chemical</i> , <b>1990</b> , 1, 249-255	8.5	243
186	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806739	24	242
185	Continuous Sample Pretreatment Using a Free-Flow Electrophoresis Device Integrated onto a Silicon Chip. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2858-2865	7.8	239
184	Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems. <i>Journal of Micromechanics and Microengineering</i> , <b>1994</b> , 4, 257-265	2	232
183	Advances in capillary electrochromatography and micro-high performance liquid chromatography monolithic columns for separation science. <i>Electrophoresis</i> , <b>2003</b> , 24, 917-44	3.6	203
182	Miniaturised nucleic acid analysis. <i>Lab on A Chip</i> , <b>2004</b> , 4, 534-46	7.2	198
181	Micellar electrokinetic chromatography separations and analyses of biological samples on a cyclic planar microstructure. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 2044-53	7.8	180
180	Latest developments in microfluidic cell biology and analysis systems. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4848-64	7.8	179
179	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> , <b>1991</b> , 10, 144-149 <sup>14.6</sup>	14.6	179
178	Total nucleic acid analysis integrated on microfluidic devices. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1413-23	7.2	159
177	Polymerase chain reaction in microfluidic devices. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3866-3884	7.2	146
176	Single-molecule fluorescence detection in microfluidic channels--the Holy Grail in $\mu$ TAS?. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 382, 1771-82	4.4	141
175	A dc microplasma on a chip employed as an optical emission detector for gas chromatography. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 2547-52	7.8	130

174	Continuous separation of high molecular weight compounds using a microliter volume free-flow electrophoresis microstructure. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 2515-22	7.8	125
173	Present state of microchip electrophoresis: state of the art and routine applications. <i>Journal of Chromatography A</i> , <b>2015</b> , 1382, 66-85	4.5	122
172	Phaseguides: a paradigm shift in microfluidic priming and emptying. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1596-602	7.2	122
171	Towards miniaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1993</b> , 10, 107-116	8.5	122
170	Three-dimensional microfluidic confinement for efficient sample delivery to biosensor surfaces. application to immunoassays on planar optical waveguides. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 5243-50	7.8	119
169	A Molecular Emission Detector on a Chip Employing a Direct Current Microplasma. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2600-2606	7.8	117
168	Narrow sample channel injectors for capillary electrophoresis on microchips. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 2656-62	7.8	104
167	High-speed free-flow electrophoresis on chip. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 5759-66	7.8	101
166	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> , <b>1997</b> , 346, 341-349	6.6	100
165	On-chip free-flow magnetophoresis: Separation and detection of mixtures of magnetic particles in continuous flow. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 307, 237-244	2.8	97
164	Manipulation of Sample Fractions on a Capillary Electrophoresis Chip. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 2284-2287	7.8	94
163	Microfabricated devices for fluid mixing and their application for chemical synthesis. <i>Chemical Record</i> , <b>2001</b> , 1, 395-405	6.6	89
162	Sub-second isoelectric focusing in free flow using a microfluidic device. <i>Lab on A Chip</i> , <b>2003</b> , 3, 224-7	7.2	87
161	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> , <b>2003</b> , 3, 187-92	7.2	86
160	A silicon flow cell for optical detection in miniaturized total chemical analysis systems. <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 6, 66-70	8.5	86
159	A circular ac magnetohydrodynamic micropump for chromatographic applications. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 215-221	8.5	80
158	Developments in technology and applications of microsystems. <i>Current Opinion in Chemical Biology</i> , <b>1997</b> , 1, 410-9	9.7	79
157	An integrated silicon thermophile as biosensor for the thermal monitoring of glucose, urea and penicillin. <i>Biosensors and Bioelectronics</i> , <b>1993</b> , 8, 89-98	11.8	79

156	Micromixer-based time-resolved NMR: applications to ubiquitin protein conformation. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 956-60	7.8	78
155	Planar quartz chips with submicron channels for two-dimensional capillary electrophoresis applications. <i>Journal of Micromechanics and Microengineering</i> , <b>1998</b> , 8, 24-28	2	77
154	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> , <b>2008</b> , 23, 1497	3.7	74
153	Electrophoretic manipulation of single DNA molecules in nanofabricated capillaries. <i>Lab on A Chip</i> , <b>2004</b> , 4, 225-9	7.2	74
152	Poly(dimethylsiloxane) electro spray devices fabricated with diamond-like carbon-poly(dimethylsiloxane) coated SU-8 masters. <i>Lab on A Chip</i> , <b>2003</b> , 3, 67-72	7.2	74
151	Handheld real-time PCR device. <i>Lab on A Chip</i> , <b>2016</b> , 16, 586-92	7.2	72
150	Towards Integrated Continuous-Flow Chemical Reactors. <i>Mikrochimica Acta</i> , <b>1999</b> , 131, 19-24	5.8	72
149	Evaporation driven pumping for chromatography application. <i>Lab on A Chip</i> , <b>2002</b> , 2, 219-23	7.2	71
148	Holographic refractive index detector for application in microchip-based separation systems. <i>Analyst, The</i> , <b>1998</b> , 123, 1443-1447	5	69
147	An atmospheric pressure dc glow discharge on a microchip and its application as a molecular emission detector. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2000</b> , 15, 297-300	3.7	67
146	An AC electroosmotic micropump for circular chromatographic applications. <i>Lab on A Chip</i> , <b>2004</b> , 4, 396-400	7.2	66
145	A novel approach to ion separations in solution: synchronized cyclic capillary electrophoresis (SCCE). <i>Sensors and Actuators B: Chemical</i> , <b>1994</b> , 20, 103-110	8.5	66
144	Three-dimensional micro flow manifolds for miniaturized chemical analysis systems. <i>Journal of Micromechanics and Microengineering</i> , <b>1994</b> , 4, 246-256	2	66
143	Miniaturization and chip technology. What can we expect?. <i>Pure and Applied Chemistry</i> , <b>2001</b> , 73, 1555-1561	7.2	60
142	Glow discharge in microfluidic chips for visible analog computing. <i>Lab on A Chip</i> , <b>2002</b> , 2, 113-6	7.2	58
141	Shah convolution fourier transform detection. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2130-8	7.8	57
140	On-chip three-dimensional cell culture in phaseguides improves hepatocyte functions in vitro. <i>Biomicrofluidics</i> , <b>2015</b> , 9, 034113	3.2	56
139	Integrated potentiometric detector for use in chip-based flow cells. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 2875-88	7.2	56

138	On-chip extrusion of lipid vesicles and tubes through microsized apertures. <i>Lab on A Chip</i> , <b>2006</b> , 6, 488-93	7.2	54
137	On-line monitoring of chromium(III) using a fast micromachined mixer/reactor and chemiluminescence detection. <i>Analyst, The</i> , <b>2000</b> , 125, 677-683	5	54
136	Terahertz-time domain spectroscopy for the detection of PCR amplified DNA in aqueous solution. <i>Analyst, The</i> , <b>2012</b> , 137, 575-9	5	53
135	Potentiometric detector for fast high-performance open-tubular column liquid chromatography. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 74-79	7.8	53
134	Miniaturised isotachopheresis analysis. <i>Lab on A Chip</i> , <b>2006</b> , 6, 474-87	7.2	52
133	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> , <b>2001</b> , 514-518		52
132	Isotachopheresis in free-flow using a miniaturized device. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3815-9	7.8	51
131	Rapid separation of fluorescein derivatives using a micromachined capillary eletrophoresis system. <i>Analytica Chimica Acta</i> , <b>1993</b> , 283, 361-366	6.6	51
130	Synchronized cyclic capillary electrophoresis—novel approach to ion separations in solution. <i>Journal of High Resolution Chromatography</i> , <b>1993</b> , 16, 594-596		49
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> , <b>2005</b> , 5, 711-8	7.2	46
128	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> , <b>2002</b> , 17, 794-799	3.7	46
127	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> , <b>2014</b> , 14, 2168-76	7.2	44
126	Palm-Sized Device for Point-of-Care Ebola Detection. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4803-7	7.8	44
125	Novel instrumentation for real-time monitoring using miniaturized flow systems with integrated biosensors. <i>Annals of Clinical Biochemistry</i> , <b>1997</b> , 34 ( Pt 3), 291-302	2.2	43
124	Modular approach to fabrication of three-dimensional microchannel systems in PDMS-application to sheath flow microchips. <i>Lab on A Chip</i> , <b>2001</b> , 1, 108-14	7.2	43
123	Picoliter Cell Volume Potentiometric Detector for Open-Tubular Column LC. <i>Journal of Chromatographic Science</i> , <b>1983</b> , 21, 326-330	1.4	43
122	Acoustofluidic chemical waveform generator and switch. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11803-10	7.8	42
121	Sub-microliter Electrochemiluminescence Detector—A Model for Small Volume Analysis Systems. <i>Analytical Communications</i> , <b>1997</b> , 34, 393-395		42

120	Ultrasensitive PCR and real-time detection from human genomic samples using a bidirectional flow microreactor. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 9185-90	7.8	42
119	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> , <b>2003</b> , 3, 82-5	7.2	42
118	A miniaturized glow discharge applied for optical emission detection in aqueous analytes. <i>Journal of Micromechanics and Microengineering</i> , <b>2002</b> , 12, N19-N22	2	42
117	A microfluidic device with an integrated waveguide beam splitter for velocity measurements of flowing particles by Fourier transformation. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4931-6	7.8	38
116	Detection of phosphorylated proteins blotted onto membranes using laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 1023	3.7	37
115	Plant leaves as templates for soft lithography. <i>RSC Advances</i> , <b>2016</b> , 6, 22469-22475	3.7	36
114	Temperature gradient focusing in a PDMS/glass hybrid microfluidic chip. <i>Electrophoresis</i> , <b>2007</b> , 28, 4606-4616	3.6	36
113	Electrostatic induction of the electric field into free-flow electrophoresis devices. <i>Lab on A Chip</i> , <b>2006</b> , 6, 710-3	7.2	36
112	Miniaturization of separation techniques using planar chip technology. <i>Journal of High Resolution Chromatography</i> , <b>1993</b> , 16, 433-436		35
111	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> , <b>2008</b> , 392, 1135-47	4.4	32
110	Toward on-chip X-ray analysis. <i>Lab on A Chip</i> , <b>2005</b> , 5, 382-91	7.2	32
109	Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model. <i>Sensors and Actuators B: Chemical</i> , <b>1993</b> , 17, 19-25	8.5	31
108	Protein-carbohydrate complex reveals circulating metastatic cells in a microfluidic assay. <i>Small</i> , <b>2013</b> , 9, 2152-61	11	30
107	Sequential DNA hybridisation assays by fast micromixing. <i>Lab on A Chip</i> , <b>2004</b> , 4, 506-11	7.2	30
106	Planar chip technology for capillary electrophoresis. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1994</b> , 348, 567-571		29
105	Microfluidics as tool to prepare size-tunable PLGA nanoparticles with high curcumin encapsulation for efficient mucus penetration. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 2280-2293	3	29
104	A facile in situ microfluidic method for creating multivalent surfaces: toward functional glycomics. <i>Lab on A Chip</i> , <b>2012</b> , 12, 1500-7	7.2	27
103	Velocity measurement of particles flowing in a microfluidic chip using Shah convolution Fourier transform detection. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1748-53	7.8	27

102	µ-TAS: Miniaturized Total Chemical Analysis Systems <b>1995</b> , 5-27		27
101	Shear-driven pumping and Fourier transform detection for on chip circular chromatography applications. <i>Lab on A Chip</i> , <b>2005</b> , 5, 764-71	7.2	26
100	Micromachined heated chemical reactor for pre-column derivatisation. <i>Journal of Chromatography A</i> , <b>1998</b> , 815, 265-271	4.5	25
99	Characterization of electrophoretic sample injection and separation in a gel-filled cyclic planar microstructure. <i>Journal of Separation Science</i> , <b>1996</b> , 8, 373-381		23
98	Shah convolution Fourier transform detection: multiple-sample injection technique. <i>Electrophoresis</i> , <b>2001</b> , 22, 222-9	3.6	21
97	Single Fluorescence Channel-based Multiplex Detection of Avian Influenza Virus by Quantitative PCR with Intercalating Dye. <i>Scientific Reports</i> , <b>2015</b> , 5, 11479	4.9	20
96	Differentiation of the human liver progenitor cell line (HepaRG) on a microfluidic-based biochip. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 482-494	4.4	20
95	Direct coupling of a free-flow isotachopheresis (FFITP) device with electrospray ionization mass spectrometry (ESI-MS). <i>Lab on A Chip</i> , <b>2015</b> , 15, 3495-502	7.2	19
94	Cell rolling and adhesion on surfaces in shear flow. A model for an antibody-based microfluidic screening system. <i>Microelectronic Engineering</i> , <b>2012</b> , 98, 668-671	2.5	19
93	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> , <b>2002</b> , 16, 1377-88	2.2	19
92	Galectin-3 coats the membrane of breast cells and makes a signature of tumours. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 258-65		18
91	Cyclic electrophoretic and chromatographic separation methods. <i>Electrophoresis</i> , <b>2004</b> , 25, 243-52	3.6	18
90	Injectors for open-tubular column liquid chromatography with 106 theoretical plates at retention times in the minute range. <i>Journal of Chromatography A</i> , <b>1987</b> , 387, 187-196	4.5	18
89	Lipid nanotubule fabrication by microfluidic tweezing. <i>Langmuir</i> , <b>2008</b> , 24, 6754-8	4	17
88	Synchronized cyclic capillary electrophoresis using channels arranged in a triangle and low voltages. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2001</b> , 371, 195-201		16
87	A Wireless Electrochemiluminescence Detector Applied to Direct and Indirect Detection for Electrophoresis on a Microfabricated Glass Device. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5633-5633	7.8	16
86	Flow injection analysis and in-line biosensors for bioprocess control: a comparison. <i>Journal of Biotechnology</i> , <b>1992</b> , 25, 75-80	3.7	16
85	Miniaturised total chemical-analysis systems (µTAS) that periodically convert chemical into electronic information. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 1334-1345	8.5	16



84	micro-Hotplate enhanced optical heating by infrared light for single cell treatment. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1509-14	7.2	14
83	A double plasma gas chromatography injector and detector. <i>Lab on A Chip</i> , <b>2004</b> , 4, 431-7	7.2	13
82	Membrane-free electroextraction using an aqueous two-phase system. <i>RSC Advances</i> , <b>2014</b> , 4, 49485-49490	4.9	12
81	Shah convolution differentiation Fourier transform for rear analysis in microchip capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2001</b> , 924, 177-86	4.5	12
80	Indirect fluorescence detection of phenolic compounds by capillary electrophoresis on a glass device. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2000</b> , 367, 686-91		12
79	Rapid manufacture of modifiable 2.5-dimensional (2.5D) microstructures for capillary force-driven fluidic velocity control. <i>RSC Advances</i> , <b>2015</b> , 5, 70737-70742	3.7	11
78	Dry powder injection on chip. <i>Lab on A Chip</i> , <b>2005</b> , 5, 140-5	7.2	11
77	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> , <b>2006</b> , 1130, 212-8	4.5	11
76	Detection of electrochemiluminescence from floating metal platelets in suspension. <i>Lab on A Chip</i> , <b>2013</b> , 13, 781-4	7.2	10
75	Laser induced disruption of bacterial spores on a microchip. <i>Lab on A Chip</i> , <b>2005</b> , 5, 374-7	7.2	10
74	Nanoliter-sized overheated reactor. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 024104	3.4	9
73	Magnetic response of <i>Magnetospirillum gryphiswaldense</i> observed inside a microfluidic channel. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 460, 340-353	2.8	9
72	Thermal gradient for fluorometric optimization of droplet PCR in virtual reaction chambers. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 3433-3439	5.8	9
71	Massively parallel production of lipid microstructures. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1852-5	7.2	9
70	Wavelet transform for Shah convolution velocity measurements of single particles and solutes in a microfluidic chip. <i>Lab on A Chip</i> , <b>2001</b> , 1, 122-6	7.2	9
69	Precise definition of starting time by capillary-based chemical initiation of digital isothermal DNA amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 288, 678-682	8.5	9
68	Pyrosequencing on a glass surface. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1063-71	7.2	8
67	Ultimate speed and sample volumes in electrophoresis. <i>Biochemical Society Transactions</i> , <b>1997</b> , 25, 278-81	3.1	8

66	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> , <b>2008</b> , 392, 1159-66	4.4	8
65	Bilayer microfluidic chip for diffusion-controlled activation of yeast species. <i>Journal of Chromatography A</i> , <b>2008</b> , 1206, 77-82	4.5	8
64	An improved micro enzyme sensor for bioprocess monitoring by flow injection analysis. <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 7, 404-407	8.5	8
63	Towards Organic Synthesis in Microfluidic Devices: Multicomponent Reactions for the Construction of Compound Libraries <b>2000</b> , 463-465		8
62	Channel-free shear driven circular liquid chromatography. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1784-6	7.2	7
61	Optical Emission Detection of Liquid Analytes Using a Micro-Machined D.C. Glow-Discharge Device at Atmospheric Pressure <b>2001</b> , 349-350		7
60	Continuous Flow Versus Batch Process A few Examples <b>1998</b> , 235-240		7
59	Continuous Flow PCR on A Chip <b>1998</b> , 7-10		7
58	Fully automatic integrated continuous-flow digital PCR device for absolute DNA quantification. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1125, 50-56	6.6	7
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