

# Roland Zengerle

## List of Publications by Year in descending order

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142  
papers

9,892  
citations

61687

45  
h-index

42259

96  
g-index

148  
all docs

148  
docs citations

148  
times ranked

13470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of polycaprolactone (PCL) scaffolds for hybrid 3D-bioprinting with alginate-gelatin hydrogel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 130, 105219.	1.5	14
2	Microfluidic One-Pot Digital Droplet FISH Using LNA/DNA Molecular Beacons for Bacteria Detection and Absolute Quantification. <i>Biosensors</i> , 2022, 12, 237.	2.3	3
3	The MRD disk: automated minimal residual disease monitoring by highly sensitive centrifugal microfluidic multiplex qPCR. <i>Lab on A Chip</i> , 2021, 21, 558-570.	3.1	1
4	A microfluidic cartridge for fast and accurate diagnosis of <i>Mycobacterium tuberculosis</i> infections on standard laboratory equipment. <i>Lab on A Chip</i> , 2021, 21, 1540-1548.	3.1	20
5	Characterization of CRISPR/Cas9 RANKL knockout mesenchymal stem cell clones based on single-cell printing technology and Emulsion Coupling assay as a low-cellularity workflow for single-cell cloning. <i>PLoS ONE</i> , 2021, 16, e0238330.	1.1	5
6	Scalable fabrication of renal spheroids and nephron-like tubules by bioprinting and controlled self-assembly of epithelial cells. <i>Biofabrication</i> , 2021, 13, 035019.	3.7	22
7	One-step, wash-free, bead-based immunoassay employing bound-free phase detection. <i>Analytica Chimica Acta</i> , 2021, 1153, 338280.	2.6	14
8	Blocking Protein Adsorption in Microfluidic Chips by a Hydrophobin Coating. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3278-3286.	2.0	2
9	Miniaturization, Parallelization, and Automation of Endotoxin Detection by Centrifugal Microfluidics. <i>Analytical Chemistry</i> , 2021, 93, 8508-8516.	3.2	6
10	Real-Time Detection of Tumor Cells during Capture on a Filter Element Significantly Enhancing Detection Rate. <i>Biosensors</i> , 2021, 11, 312.	2.3	2
11	Eliminating viscosity bias in lateral flow tests. <i>Microsystems and Nanoengineering</i> , 2021, 7, 72.	3.4	7
12	Automated library preparation for whole genome sequencing by centrifugal microfluidics. <i>Analytica Chimica Acta</i> , 2021, 1182, 338954.	2.6	6
13	High Dynamic Range Digital Assay Enabled by Dual-Volume Centrifugal Step Emulsification. <i>Analytical Chemistry</i> , 2021, 93, 2854-2860.	3.2	10
14	Fully automated point-of-care differential diagnosis of acute febrile illness. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009177.	1.3	16
15	Advanced minimal residual disease monitoring for acute lymphoblastic leukemia with multiplex mediator probe PCR. <i>Journal of Molecular Diagnostics</i> , 2021, , .	1.2	3
16	Gravity-driven microfluidic assay for digital enumeration of bacteria and for antibiotic susceptibility testing. <i>Lab on A Chip</i> , 2020, 20, 54-63.	3.1	35
17	Loop-mediated isothermal amplification (LAMP) – review and classification of methods for sequence-specific detection. <i>Analytical Methods</i> , 2020, 12, 717-746.	1.3	237
18	Fusing MEMS technology with lab-on-chip: nanoliter-scale silicon microcavity arrays for digital DNA quantification and multiplex testing. <i>Microsystems and Nanoengineering</i> , 2020, 6, 82.	3.4	14

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19	In vivo evaluation of bioprinted prevascularized bone tissue. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3902-3911.	1.7	26
20	Automation of Amplicon-Based Library Preparation for Next-Generation Sequencing by Centrifugal Microfluidics. <i>Analytical Chemistry</i> , 2020, 92, 12833-12841.	3.2	15
21	Point-of-care testing system for digital single cell detection of MRSA directly from nasal swabs. <i>Lab on A Chip</i> , 2020, 20, 2549-2561.	3.1	44
22	An analytical model for void-free priming of microcavities. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	2
23	Single-cell dispensing and "real-time" cell classification using convolutional neural networks for higher efficiency in single-cell cloning. <i>Scientific Reports</i> , 2020, 10, 1193.	1.6	17
24	From CAD to microfluidic chip within one day: rapid prototyping of lab-on-chip cartridges using generic polymer parts. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 115012.	1.5	10
25	Bioprinting of high cell density constructs leads to controlled lumen formation with self-assembly of endothelial cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1883-1895.	1.3	14
26	Flow control for lateral flow strips with centrifugal microfluidics. <i>Lab on A Chip</i> , 2019, 19, 2718-2727.	3.1	15
27	Examination of Hydrogels and Mesenchymal Stem Cell Sources for Bioprinting of Artificial Osteogenic Tissues. <i>Cellular and Molecular Bioengineering</i> , 2019, 12, 583-597.	1.0	14
28	Simplified Real-Time Multiplex Detection of Loop-Mediated Isothermal Amplification Using Novel Mediator Displacement Probes with Universal Reporters. <i>Analytical Chemistry</i> , 2018, 90, 4741-4748.	3.2	43
29	Simultaneous use of a crossflow filtration membrane as microbial fuel cell anode " Permeate flow leads to 4-fold increased current densities. <i>Bioresource Technology</i> , 2018, 257, 274-280.	4.8	8
30	Tailoring the Membrane-Electrode Interface in PEM Fuel Cells: A Review and Perspective on Novel Engineering Approaches. <i>Advanced Energy Materials</i> , 2018, 8, 1701257.	10.2	105
31	Assessment of hydrogels for bioprinting of endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 935-947.	2.1	63
32	Diagnostic tools for tackling febrile illness and enhancing patient management. <i>Microelectronic Engineering</i> , 2018, 201, 26-59.	1.1	18
33	An air-breathing enzymatic cathode with extended lifetime by continuous laccase supply. <i>Bioresource Technology</i> , 2018, 264, 306-310.	4.8	10
34	Fluorescence signal-to-noise optimisation for real-time PCR using universal reporter oligonucleotides. <i>Analytical Methods</i> , 2018, 10, 3444-3454.	1.3	12
35	Converging Human and Malaria Vector Diagnostics with Data Management towards an Integrated Holistic One Health Approach. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 259.	1.2	14
36	Digital hydraulic drive for microfluidics and miniaturized cell culture devices based on shape memory alloy actuators. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 084001.	1.5	7

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37	G-index: A new metric to describe dynamic refractive index effects in HPLC absorbance detection. <i>Talanta</i> , 2018, 187, 200-206.	2.9	1
38	Open microfluidic gel electrophoresis: Rapid and low cost separation and analysis of DNA at the nanoliter scale. <i>Electrophoresis</i> , 2017, 38, 1764-1770.	1.3	23
39	Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, High-Performance Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602100.	10.2	56
40	A Smartphone-Based Colorimetric Reader for Human C-Reactive Protein Immunoassay. <i>Methods in Molecular Biology</i> , 2017, 1571, 343-356.	0.4	8
41	Fuel Cells: Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, High-Performance Fuel Cells ( <i>Adv. Energy Mater.</i> 6/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	0
42	Atmospheric Photopolymerization of Acrylamide Enabled by Aqueous Glycerol Mixtures: Characterization and Application for Surface-Based Microfluidics. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600518.	1.7	2
43	Digital Hydraulic Drive for microfluid large-scale integration system based on shape memory alloy actuators. , 2017, , .		0
44	Cytocompatibility testing of hydrogels toward bioprinting of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3231-3241.	2.1	33
45	Simplified development of multiplex real-time PCR through master mix augmented by universal fluorogenic reporters. <i>BioTechniques</i> , 2016, 61, 123-128.	0.8	8
46	Molecular Genetic Characterization of Individual Cancer Cells Isolated via Single-Cell Printing. <i>PLoS ONE</i> , 2016, 11, e0163455.	1.1	18
47	Synchrotron X-ray Tomographic Study of a Silicon Electrode Before and After Discharge and the Effect of Cavities on Particle Fracturing. <i>ChemElectroChem</i> , 2016, 3, 1170-1177.	1.7	20
48	In situ characterization of the mTORC1 during adipogenesis of human adult stem cells on chip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4143-50.	3.3	25
49	Microfluidic solutions enabling continuous processing and monitoring of biological samples: A review. <i>Analytica Chimica Acta</i> , 2016, 929, 1-22.	2.6	61
50	Morphological Evolution of Electrochemically Plated/Stripped Lithium Microstructures Investigated by Synchrotron X-ray Phase Contrast Tomography. <i>ACS Nano</i> , 2016, 10, 7990-7997.	7.3	108
51	Multi-Scale Correlative Tomography of a Li-Ion Battery Composite Cathode. <i>Scientific Reports</i> , 2016, 6, 30109.	1.6	47
52	Digital droplet PCR on disk. <i>Lab on A Chip</i> , 2016, 16, 208-216.	3.1	114
53	LabDisk for SAXS: a centrifugal microfluidic sample preparation platform for small-angle X-ray scattering. <i>Lab on A Chip</i> , 2016, 16, 1161-1170.	3.1	44
54	Directly deposited Nafion/TiO <sub>2</sub> composite membranes for high power medium temperature fuel cells. <i>RSC Advances</i> , 2016, 6, 24261-24266.	1.7	39

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55	Poisoning of Highly Porous Platinum Electrodes by Amino Acids and Tissue Fluid Constituents. <i>ChemElectroChem</i> , 2015, 2, 1785-1793.	1.7	14
56	Technologies for Single-Cell Isolation. <i>International Journal of Molecular Sciences</i> , 2015, 16, 16897-16919.	1.8	339
57	A Disposable Dispensing Valve for Non-Contact Microliter Applications in a 96-Well Plate Format. <i>Micromachines</i> , 2015, 6, 423-436.	1.4	7
58	Automated Forensic Animal Family Identification by Nested PCR and Melt Curve Analysis on an Off-the-Shelf Thermocycler Augmented with a Centrifugal Microfluidic Disk Segment. <i>PLoS ONE</i> , 2015, 10, e0131845.	1.1	17
59	Liquids on-chip: direct storage and release employing micro-perforated vapor barrier films. <i>Lab on A Chip</i> , 2015, 15, 2887-2895.	3.1	12
60	Versatile sample environments and automation for biological solution X-ray scattering experiments at the P12 beamline (PETRA III, DESY). <i>Journal of Applied Crystallography</i> , 2015, 48, 431-443.	1.9	508
61	Direct deposition of proton exchange membranes enabling high performance hydrogen fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11239-11245.	5.2	128
62	Graphene-based rapid and highly-sensitive immunoassay for C-reactive protein using a smartphone-based colorimetric reader. <i>Biosensors and Bioelectronics</i> , 2015, 66, 169-176.	5.3	75
63	Three-Phase Multiscale Modeling of a LiCoO <sub>2</sub> Cathode: Combining the Advantages of FIB-SEM Imaging and X-Ray Tomography. <i>Advanced Energy Materials</i> , 2015, 5, 1401612.	10.2	127
64	Electrochemical pesticide detection with AutoDip – a portable platform for automation of crude sample analyses. <i>Lab on A Chip</i> , 2015, 15, 704-710.	3.1	26
65	A smartphone-based colorimetric reader for bioanalytical applications using the screen-based bottom illumination provided by gadgets. <i>Biosensors and Bioelectronics</i> , 2015, 67, 248-255.	5.3	201
66	Real-time stability testing of dried primers and fluorogenic hydrolysis probes stabilized by trehalose and xanthan. <i>BioTechniques</i> , 2014, 57, 151-155.	0.8	17
67	Electrodes: A Combination of X-Ray Tomography and Carbon Binder Modeling: Reconstructing the Three Phases of LiCoO <sub>2</sub> Li-Ion Battery Cathodes ( <i>Adv. Energy Mater.</i> 8/2014). <i>Advanced Energy Materials</i> , 2014, 4, .	10.2	2
68	A Calibration-Free, Noncontact, Disposable Liquid Dispensing Cartridge Featuring an Online Process Control. <i>Journal of the Association for Laboratory Automation</i> , 2014, 19, 394-402.	2.8	6
69	Centrifugal LabTube platform for fully automated DNA purification and LAMP amplification based on an integrated, low-cost heating system. <i>Biomedical Microdevices</i> , 2014, 16, 375-85.	1.4	13
70	Multiplex genotyping of KRAS point mutations in tumor cell DNA by allele-specific real-time PCR on a centrifugal microfluidic disk segment. <i>Mikrochimica Acta</i> , 2014, 181, 1681-1688.	2.5	19
71	Lamination of polyethylene composite films by ultrasonic welding: Investigation of peel behavior and identification of optimum welding parameters. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	5
72	A Combination of X-Ray Tomography and Carbon Binder Modeling: Reconstructing the Three Phases of LiCoO <sub>2</sub> Li-Ion Battery Cathodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301617.	10.2	95

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73	Cellphone-based devices for bioanalytical sciences. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3263-3277.	1.9	268
74	Real-time PCR based detection of a panel of food-borne pathogens on a centrifugal microfluidic "LabDisk" with on-disk quality controls and standards for quantification. <i>Analytical Methods</i> , 2014, 6, 2038.	1.3	42
75	Using planktonic microorganisms to supply the unpurified multi-copper oxidases laccase and copper efflux oxidases at a biofuel cell cathode. <i>Bioresource Technology</i> , 2014, 158, 231-238.	4.8	10
76	One-step kinetics-based immunoassay for the highly sensitive detection of C-reactive protein in less than 30min. <i>Analytical Biochemistry</i> , 2014, 456, 32-37.	1.1	62
77	A versatile-deployable bacterial detection system for food and environmental safety based on LabTube-automated DNA purification, LabReader-integrated amplification, readout and analysis. <i>Analyst</i> , The, 2014, 139, 2788-2798.	1.7	7
78	Miniature stick-packaging " an industrial technology for pre-storage and release of reagents in lab-on-a-chip systems. <i>Lab on A Chip</i> , 2013, 13, 2888.	3.1	83
79	Single-Cell Printer: Automated, On Demand, and Label Free. <i>Journal of the Association for Laboratory Automation</i> , 2013, 18, 504-518.	2.8	91
80	Systematic screening of carbon-based anode materials for microbial fuel cells with <i>Shewanella oneidensis</i> MR-1. <i>Bioresource Technology</i> , 2013, 146, 386-392.	4.8	63
81	Leukocyte enrichment based on a modified pinched flow fractionation approach. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 551-563.	1.0	28
82	Centrifugal gas-phase transition magnetophoresis (GTM) " a generic method for automation of magnetic bead based assays on the centrifugal microfluidic platform and application to DNA purification. <i>Lab on A Chip</i> , 2013, 13, 146-155.	3.1	56
83	Fabrication of highly porous platinum electrodes for micro-scale applications by pulsed electrodeposition and dealloying. <i>Journal of Power Sources</i> , 2013, 242, 255-263.	4.0	23
84	Fabrication of Highly Porous Platinum by Cyclic Electrodeposition of PtCu Alloys: How do Process Parameters Affect Morphology?. <i>Journal of the Electrochemical Society</i> , 2013, 160, D111-D118.	1.3	8
85	Miniaturized FPGA-Based High-Resolution Time-Domain Reflectometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 2101-2113.	2.4	19
86	A Low-Cost, Normally Closed, Solenoid Valve for Non-Contact Dispensing in the Sub-µL Range. <i>Micromachines</i> , 2013, 4, 9-21.	1.4	22
87	Enhanced Liquid Metal Micro Droplet Generation by Pneumatic Actuation Based on the StarJet Method. <i>Micromachines</i> , 2013, 4, 49-66.	1.4	31
88	Active Continuous-Flow Micromixer Using an External Braille Pin Actuator Array. <i>Micromachines</i> , 2013, 4, 80-89.	1.4	37
89	Droplet Dispensing. , 2013, , 1-14.		2
90	Microfluidic Apps for off-the-shelf instruments. <i>Lab on A Chip</i> , 2012, 12, 2464.	3.1	37

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91	Rapid microarray processing using a disposable hybridization chamber with an integrated micropump. Lab on A Chip, 2012, 12, 1384.	3.1	29
92	Completely Superhydrophobic PDMS Surfaces for Microfluidics. Langmuir, 2012, 28, 8292-8295.	1.6	135
93	Microfluidic Platforms for Lab-On-A-Chip Applications. , 2012, , 853-895.		17
94	Centrifugo-dynamic inward pumping of liquids on a centrifugal microfluidic platform. Lab on A Chip, 2012, 12, 5142.	3.1	64
95	Optical non-contact localization of liquid-gas interfaces on disk during rotation for measuring flow rates and viscosities. Lab on A Chip, 2012, 12, 5231.	3.1	6
96	Towards a "Sample-In, Answer-Out" Point-of-Care Platform for Nucleic Acid Extraction and Amplification: Using an HPV E6/E7 mRNA Model System. Journal of Oncology, 2012, 2012, 1-12.	0.6	24
97	Universal protocol for grafting PCR primers onto various lab-on-a-chip substrates for solid-phase PCR. RSC Advances, 2012, 2, 3885.	1.7	24
98	Construction of a Microstructured Collagen Membrane Mimicking the Papillary Dermis Architecture and Guiding Keratinocyte Morphology and Gene Expression. Macromolecular Bioscience, 2012, 12, 675-691.	2.1	25
99	Cyclic Electrodeposition of PtCu Alloy: Facile Fabrication of Highly Porous Platinum Electrodes. Advanced Materials, 2012, 24, 2916-2921.	11.1	63
100	Inkjet-like printing of single-cells. Lab on A Chip, 2011, 11, 2447.	3.1	126
101	Microfluidic cartridges for DNA purification and genotyping processed in standard laboratory instruments. Proceedings of SPIE, 2011, , .	0.8	3
102	Controlled counter-flow motion of magnetic bead chains rolling along microchannels. Microfluidics and Nanofluidics, 2011, 10, 935-939.	1.0	30
103	Aliquoting on the centrifugal microfluidic platform based on centrifugo-pneumatic valves. Microfluidics and Nanofluidics, 2011, 10, 1279-1288.	1.0	75
104	Nano-morphology of a polymer electrolyte fuel cell catalyst layer "imaging, reconstruction and analysis. Nano Research, 2011, 4, 849-860.	5.8	90
105	Strategies for the Fabrication of Porous Platinum Electrodes. Advanced Materials, 2011, 23, 4976-5008.	11.1	171
106	Capillary driven movement of gas bubbles in tapered structures. Microfluidics and Nanofluidics, 2010, 9, 341-355.	1.0	24
107	Tailormade Microfluidic Devices Through Photochemical Surface Modification. Macromolecular Chemistry and Physics, 2010, 211, 195-203.	1.1	15
108	Adhesive bonding of microfluidic chips: influence of process parameters. Journal of Micromechanics and Microengineering, 2010, 20, 087003.	1.5	14

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109	Continuous microfluidic DNA extraction using phase-transfer magnetophoresis. Lab on A Chip, 2010, 10, 3284.	3.1	86
110	Microfluidic lab-on-a-foil for nucleic acid analysis based on isothermal recombinase polymerase amplification (RPA). Lab on A Chip, 2010, 10, 887.	3.1	308
111	Microfluidic lab-on-a-chip platforms: requirements, characteristics and applications. Chemical Society Reviews, 2010, 39, 1153.	18.7	1,366
112	Pre-storage of liquid reagents in glass ampoules for DNA extraction on a fully integrated lab-on-a-chip cartridge. Lab on A Chip, 2010, 10, 1480.	3.1	58
113	Lab-on-a-Foil: microfluidics on thin and flexible films. Lab on A Chip, 2010, 10, 1365.	3.1	228
114	Centrifugal microfluidic system for primary amplification and secondary real-time PCR. Lab on A Chip, 2010, 10, 3210.	3.1	78
115	Microstructuring of polymer films for sensitive genotyping by real-time PCR on a centrifugal microfluidic platform. Lab on A Chip, 2010, 10, 2519.	3.1	108
116	Simulation of advanced microfluidic systems with dissipative particle dynamics. Microfluidics and Nanofluidics, 2009, 7, 307-323.	1.0	21
117	Capillary-driven pumping for passive degassing and fuel supply in direct methanol fuel cells. Microfluidics and Nanofluidics, 2009, 7, 531-543.	1.0	24
118	Centrifugo-pneumatic valve for metering of highly wetting liquids on centrifugal microfluidic platforms. Lab on A Chip, 2009, 9, 3599.	3.1	72
119	Computational fluid dynamics (CFD) software tools for microfluidic applications – A case study. Computers and Fluids, 2008, 37, 218-235.	1.3	124
120	Near-wall velocity of suspended particles in microchannel flow. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	1
121	Fully passive degassing and fuel supply in direct methanol fuel cells. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	5
122	Microfluidic for Lab-on-a-Chip. , 2008, , 463-516.		4
123	Microfluidic platforms for lab-on-a-chip applications. Lab on A Chip, 2007, 7, 1094.	3.1	925
124	The centrifugal microfluidic Bio-Disk platform. Journal of Micromechanics and Microengineering, 2007, 17, S103-S115.	1.5	521
125	Centrifugo-magnetic pump for gas-to-liquid sampling. Sensors and Actuators A: Physical, 2007, 135, 28-33.	2.0	40
126	Centrifugal extraction of plasma from whole blood on a rotating disk. Lab on A Chip, 2006, 6, 776-781.	3.1	224



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127	Patterning of flow and mixing in rotating radial microchannels. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 97-105.	1.0	92
128	Multilamination of flows in planar networks of rotating microchannels. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 78-84.	1.0	70
129	Centrifugal generation and manipulation of droplet emulsions. <i>Microfluidics and Nanofluidics</i> , 2006, 3, 65-75.	1.0	76
130	LAB-ON-CHIP-BASED CELL SEPARATION BY COMBINING DIELECTROPHORESIS AND CENTRIFUGATION. <i>Biophysical Reviews and Letters</i> , 2006, 01, 443-451.	0.9	16
131	Visualization of flow patterning in high-speed centrifugal microfluidics. <i>Review of Scientific Instruments</i> , 2005, 76, 025101.	0.6	89
132	Fast and reliable protein microarray production by a new drop-in-drop technique. <i>Lab on A Chip</i> , 2005, 5, 675.	3.1	52
133	Frequency-dependent transversal flow control in centrifugal microfluidics. <i>Lab on A Chip</i> , 2005, 5, 146-150.	3.1	119
134	Non-contact production of oligonucleotide microarrays using the highly integrated TopSpot nanoliter dispenser. <i>Analyst</i> , 2004, 129, 835.	1.7	30
135	A Highly Parallel Nanoliter Dispenser for Microarray Fabrication. <i>Biomedical Microdevices</i> , 2004, 6, 131-137.	1.4	35
136	Highly parallel dispensing of chemical and biological reagents. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 119-122.	1.9	47
137	A highly parallel picoliter dispenser with an integrated, novel capillary channel structure. <i>Sensors and Actuators A: Physical</i> , 2004, 116, 171-177.	2.0	38
138	Impact of medium properties on droplet release in a highly parallel nanoliter dispenser. <i>Sensors and Actuators A: Physical</i> , 2004, 116, 187-194.	2.0	22
139	The dispensing well plate: a novel nanodispenser for the multiparallel delivery of liquids (DWP Part I). <i>Sensors and Actuators A: Physical</i> , 2004, 116, 483-491.	2.0	33
140	Theoretical evaluation of the dispensing well plate method (DWP part II). <i>Sensors and Actuators A: Physical</i> , 2004, 116, 472-482.	2.0	15
141	Aggregation of bead-monolayers in flat microfluidic chambers – simulation by the model of porous media. <i>Lab on A Chip</i> , 2004, 4, 209-213.	3.1	13
142	A tuneable and highly-parallel picolitre-dispenser based on direct liquid displacement. <i>Sensors and Actuators A: Physical</i> , 2003, 103, 88-92.	2.0	44