Anders Wolff

List of Publications by Year
in descending order

96 papers	4,351 citations	126907 33 h-index	114465 63 g-index
98 all docs	98 docs citations	98 times ranked	6554 citing authors

#	Article	IF	Citations
1	Point-of-care diagnosis of invasive non-typhoidal Salmonella enterica in bloodstream infections using immunomagnetic capture and loop-mediated isothermal amplification. New Biotechnology, 2022, 66, 1-7.	4.4	12
2	Elimination of Carryover Contamination in Real-Time Reverse Transcriptase Loop-Mediated Isothermal Amplification for Rapid Detection of the SARS-CoV-2 Virus in Point-of-Care Testing. Frontiers in Cellular and Infection Microbiology, 2022, 12, 856553.	3.9	7
3	Magnetic beads modified with Pt/Pd nanoparticle and aptamer as a catalytic nano-bioprobe in combination with loop mediated isothermal amplification for the on-site detection of Salmonella Typhimurium in food and fecal samples. Food Control, 2021, 121, 107664.	5.5	24
4	Development of Reverse Transcription Loop-Mediated Isothermal Amplification Assay for Rapid and On-Site Detection of Avian Influenza Virus. Frontiers in Cellular and Infection Microbiology, 2021, 11, 652048.	3.9	6
5	Rapid diagnostics for SARS-CoV-2 virus: point-of-care testing and lessons learned during the pandemic. Bioanalysis, 2021, 13, 1165-1167.	1.5	6
6	Pathogen Concentration Combined Solid-Phase PCR on Supercritical Angle Fluorescence Microlens Array for Multiplexed Detection of Invasive Nontyphoidal Salmonella Serovars. Analytical Chemistry, 2020, 92, 2706-2713.	6.5	17
7	Point-of-care devices for pathogen detections: The three most important factors to realise towards commercialization. TrAC - Trends in Analytical Chemistry, 2020, 131, 116004.	11.4	69
8	2019 Novel Coronavirus Disease (COVID-19): Paving the Road for Rapid Detection and Point-of-Care Diagnostics. Micromachines, 2020, 11, 306.	2.9	243
9	Classification of Multiple DNA Dyes Based on Inhibition Effects on Real-Time Loop-Mediated Isothermal Amplification (LAMP): Prospect for Point of Care Setting. Frontiers in Microbiology, 2019, 10, 2234.	3.5	68
10	A Sensitive, Specific and Simple Loop Mediated Isothermal Amplification Method for Rapid Detection of Campylobacter spp. in Broiler Production. Frontiers in Microbiology, 2019, 10, 2443.	3.5	21
11	A Complete Protocol for Rapid and Low-Cost Fabrication of Polymer Microfluidic Chips Containing Three-Dimensional Microstructures Used in Point-of-Care Devices. Micromachines, 2019, 10, 624.	2.9	18
12	The Use of a DNA-Intercalating Dye for Quantitative Detection of Viable Arcobacter spp. Cells (v-qPCR) in Shellfish. Frontiers in Microbiology, 2019, 10, 368.	3.5	12
13	Optimising the supercritical angle fluorescence structures in polymer microfluidic biochips for highly sensitive pathogen detection: a case study on Escherichia coli. Lab on A Chip, 2019, 19, 3825-3833.	6.0	24
14	MicroRNA amplification and detection technologies: opportunities and challenges for point of care diagnostics. Laboratory Investigation, 2019, 99, 452-469.	3.7	146
15	Rapid detection of Salmonella enterica in food samples by a novel approach with combination of sample concentration and direct PCR. Biosensors and Bioelectronics, 2019, 129, 224-230.	10.1	101
16	Differentiation of human-induced pluripotent stem cell under flow conditions to mature hepatocytes for liver tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1273-1284.	2.7	26
17	Microfluidic devices for sample preparation and rapid detection of foodborne pathogens. Biotechnology Advances, 2018, 36, 1003-1024.	11.7	136
18	Three-dimensional fabrication of thick and densely populated soft constructs with complex and actively perfused channel network. Acta Biomaterialia, 2018, 65, 174-184.	8.3	72

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19	From Lab on a Chip to Point of Care Devices: The Role of Open Source Microcontrollers. Micromachines, 2018, 9, 403.	2.9	61
20	Molecularly imprinted polymers for sample preparation and biosensing in food analysis: Progress and perspectives. Biosensors and Bioelectronics, 2017, 91, 606-615.	10.1	271
21	From 2D fluidic array screening to 3D bacterial capturing structures in a point of care system for sepsis diagnosis. , 2017, , .		0
22	Solid-phase PCR for rapid multiplex detection of Salmonella spp. at the subspecies level, with amplification efficiency comparable to conventional PCR. Analytical and Bioanalytical Chemistry, 2017, 409, 2715-2726.	3.7	20
23	A novel lab-on-chip platform with integrated solid phase PCR and Supercritical Angle Fluorescence (SAF) microlens array for highly sensitive and multiplexed pathogen detection. Biosensors and Bioelectronics, 2017, 90, 217-223.	10.1	40
24	Direct PCR â€“ A rapid method for multiplexed detection of different serotypes of Salmonella in enriched pork meat samples. Molecular and Cellular Probes, 2017, 32, 24-32.	2.1	34
25	Laser ablated micropillar energy directors for ultrasonic welding of microfluidic systems. Journal of Micromechanics and Microengineering, 2016, 26, 067001.	2.6	7
26	Revisiting the IFN-Î³ release assay: Whole blood or PBMC cultures? â€” And other factors of influence. Journal of Immunological Methods, 2016, 434, 24-31.	1.4	10
27	3D Printed Siliconeâ€“Hydrogel Scaffold with Enhanced Physicochemical Properties. Biomacromolecules, 2016, 17, 1321-1329.	5.4	53
28	Fabrication of scalable tissue engineering scaffolds with dual-pore microarchitecture by combining 3D printing and particle leaching. Materials Science and Engineering C, 2016, 61, 180-189.	7.3	74
29	Investigating the Role of Surface Materials and Three Dimensional Architecture on In Vitro Differentiation of Porcine Monocyte-Derived Dendritic Cells. PLoS ONE, 2016, 11, e0158503.	2.5	7
30	Impedance Spectroscopic Characterisation of Porosity in 3D Cell Culture Scaffolds with Different Channel Networks. Electroanalysis, 2015, 27, 193-199.	2.9	16
31	A Microfluidic Platform for the Rapid Determination of Distribution Coefficients by Gravity-Assisted Droplet-Based Liquidâ€“Liquid Extraction. Analytical Chemistry, 2015, 87, 6265-6270.	6.5	20
32	Liquid carry-over in an injection moulded all-polymer chip system for immiscible phase magnetic bead-based solid-phase extraction. Journal of Magnetism and Magnetic Materials, 2015, 380, 191-196.	2.3	6
33	A lab-on-a-chip system with integrated sample preparation and loop-mediated isothermal amplification for rapid and quantitative detection of Salmonella spp. in food samples. Lab on A Chip, 2015, 15, 1898-1904.	6.0	132
34	Ultrasonic welding for fast bonding of self-aligned structures in lab-on-a-chip systems. Lab on A Chip, 2015, 15, 1998-2001.	6.0	32
35	Fabrication of scalable and structured tissue engineering scaffolds using water dissolvable sacrificial 3D printed moulds. Materials Science and Engineering C, 2015, 55, 569-578.	7.3	160
36	Miniaturization of a micro-optics array for highly sensitive and parallel detection on an injection moulded lab-on-a-chip. Lab on A Chip, 2015, 15, 2445-2451.	6.0	22

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37	Bioimpedance monitoring of 3D cell culturingâ€"Complementary electrode configurations for enhanced spatial sensitivity. Biosensors and Bioelectronics, 2015, 63, 72-79.	10.1	44
38	Fabrication and modelling of injection moulded all-polymer capillary microvalves for passive microfluidic control. Journal of Micromechanics and Microengineering, 2014, 24, 125007.	2.6	20
39	An oligonucleotide-tagged microarray for routine diagnostics of colon cancer by genotyping KRAS mutations. International Journal of Oncology, 2014, 45, 1556-1564.	3.3	1
40	A temperature control method for shortening thermal cycling time to achieve rapid polymerase chain reaction (PCR) in a disposable polymer microfluidic device. Journal of Micromechanics and Microengineering, 2013, 23, 074002.	2.6	24
41	Pre-storage of gelified reagents in a lab-on-a-foil system for rapid nucleic acid analysis. Lab on A Chip, 2013, 13, 1509.	6.0	25
42	Development of Electrochemical Cantilever Sensors for DNA Applications. ECS Transactions, 2013, 50, 77-81.	0.5	1
43	A disposable polymer lab-on-a-slide for point-of-care diagnostics of methicillin-resistant staphylococcus aureus (MRSA). , 2013, , .		0
44	Gold Nanoparticles-Coated SU-8 for Sensitive Fluorescence-Based Detections of DNA. Diagnostics, 2012, 2, 72-82.	2.6	8
45	Reverse transcriptase real-time PCR for detection and quantification of viable Campylobacter jejuni directly from poultry faecal samples. Research in Microbiology, 2012, 163, 64-72.	2.1	16
46	Isolation and detection of Campylobacter jejuni from chicken fecal samples by immunomagnetic separationâ€"PCR. Food Control, 2012, 24, 23-28.	5.5	13
47	Effect of environmental stress factors on the uptake and survival of Campylobacter jejuni in Acanthamoeba castellanii. BMC Microbiology, 2012, 12, 232.	3.3	19
48	Survival of Campylobacter jejuni in coâ€culture with Acanthamoeba castellanii: role of amoebaâ€mediated depletion of dissolved oxygen. Environmental Microbiology, 2012, 14, 2034-2047.	3.8	37
49	Direct immobilization of DNA probes on non-modified plastics by UV irradiation and integration in microfluidic devices for rapid bioassay. Analytical and Bioanalytical Chemistry, 2012, 402, 741-748.	3.7	36
50	Interaction between Food-borne Pathogens (Campylobacter jejuni, Salmonella Typhimurium and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 2012, 1, .	0.3	0
51	DNA microarray-based solid-phase RT-PCR for rapid detection and identification of influenza virus type A and subtypes H5 and H7. Diagnostic Microbiology and Infectious Disease, 2011, 69, 432-439.	1.8	16
52	A lab-on-a-chip device for rapid identification of avian influenza viral RNA by solid-phase PCR. Lab on A Chip, 2011, 11, 1457.	6.0	63
53	Rapid detection of avian influenza virus in chicken fecal samples by immunomagnetic capture reverse transcriptaseâ€"polymerase chain reaction assay. Diagnostic Microbiology and Infectious Disease, 2011, 69, 258-265.	1.8	30
54	Fate and Survival of Campylobacter coli in Swine Manure at Various Temperatures. Frontiers in Microbiology, 2011, 2, 262.	3.5	16

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55	Dual Enlargement of Gold Nanoparticles: From Mechanism to Scanometric Detection of Pathogenic Bacteria. Small, 2011, 7, 1701-1708.	10.0	53
56	DNA microarrays immobilized on unmodified plastics in a microfluidic biochip for rapid typing of Avian Influenza Virus. , 2011, , .		1
57	A microfluidic control system with re-usable micropump/valve actuator and injection moulded disposable polymer lab-on-a-slide. , 2011, , .		2
58	Microfluidic DNA microarrays in PMMA chips: streamlined fabrication via simultaneous DNA immobilization and bonding activation by brief UV exposure. Biomedical Microdevices, 2010, 12, 673-681.	2.8	22
59	Rapid sample preparation for detection and identification of avian influenza virus from chicken faecal samples using magnetic bead microsystem. Journal of Virological Methods, 2010, 169, 228-231.	2.1	6
60	Dried reagents for multiplex genotyping by tag-array minisequencing to be used in microfluidic devices. Analyst, The, 2010, 135, 2377.	3.5	21
61	Detection of avian influenza virus by fluorescent DNA barcode-based immunoassay with sensitivity comparable to PCR. Analyst, The, 2010, 135, 337-342.	3.5	31
62	A Trip from a Tube to a Chip Applied Micro and Nanotechnology in Biotechnology, Veterinary and Life Sciences. IFMBE Proceedings, 2010, , 291-294.	0.3	2
63	Au Nanoparticles for Applications in Analysis of Cellular and Biomolecular Recognitions. IFMBE Proceedings, 2010, , 295-298.	0.3	0
64	The SmartBioPhoneâ„¢, a point of care vision under development through two European projects: OPTOLABCARD and LABONFOIL. Lab on A Chip, 2009, 9, 1495.	6.0	51
65	Theoretical analysis of a new, efficient microfluidic magnetic bead separator based on magnetic structures on multiple length scales. Microfluidics and Nanofluidics, 2008, 4, 565-573.	2.2	29
66	Characterization of a microfluidic magnetic bead separator for high-throughput applications. Sensors and Actuators A: Physical, 2008, 145-146, 430-436.	4.1	49
67	Multiplex polymerase chain reaction (PCR) on a SU-8 chip. Microelectronic Engineering, 2008, 85, 1278-1281.	2.4	20
68	An inexpensive and simple method for thermally stable immobilization of DNA on an unmodified glass surface: UV linking of poly(T)10-poly(C)10â€“tagged DNA probes. BioTechniques, 2008, 45, 261-271.	1.8	32
69	A High-Throughput SU-8Microfluidic Magnetic Bead Separator. , 2007, , .		0
70	PCR biocompatibility of lab-on-a-chip and MEMS materials. Journal of Micromechanics and Microengineering, 2007, 17, 1527-1532.	2.6	53
71	Comparison of multiple DNA dyes for real-time PCR: effects of dye concentration and sequence composition on DNA amplification and melting temperature. Nucleic Acids Research, 2007, 35, e127.	14.5	244
72	On-Chip Determination of Dopamine Exocytosis Using Mercaptopropionic Acid Modified Microelectrodes. Electroanalysis, 2007, 19, 263-271.	2.9	71

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73	Sample preparation by cell guiding using negative dielectrophoresis. Microelectronic Engineering, 2007, 84, 1690-1693.	2.4	8
74	Whole genome expression profiling using DNA microarray for determining biocompatibility of polymeric surfaces. Molecular BioSystems, 2006, 2, 421.	2.9	57
75	Towards a portable microchip system with integrated thermal control and polymer waveguides for real-time PCR. Electrophoresis, 2006, 27, 5051-5058.	2.4	22
76	Dielectrophoresis microsystem with integrated flow cytometers for on-line monitoring of sorting efficiency. Electrophoresis, 2006, 27, 5081-5092.	2.4	29
77	DETECTION OF A PUTATIVE VIRULENCE cadF GENE OF CAMPYLOBACTER JEJUNI OBTAINED FROM DIFFERENT SOURCES USING A MICROFABRICATED PCR CHIP. Journal of Rapid Methods and Automation in Microbiology, 2005, 13, 111-126.	0.4	12
78	Surface-directed capillary system; theory, experiments and applications. Lab on A Chip, 2005, 5, 827.	6.0	85
79	Numerical simulation of travelling wave induced electrothermal fluid flow. Journal Physics D: Applied Physics, 2004, 37, 2323-2330.	2.8	42
80	Simulation and experimental validation of a SU-8 based PCR thermocycler chip with integrated heaters and temperature sensor. Sensors and Actuators A: Physical, 2004, 110, 3-10.	4.1	138
81	Measurements of scattered light on a microchip flow cytometer with integrated polymer based optical elements. Lab on A Chip, 2004, 4, 372-377.	6.0	197
82	Micro patterning of cell and protein non-adhesive plasma polymerized coatings for biochip applications. Lab on A Chip, 2004, 4, 632.	6.0	53
83	Integration of polymer waveguides for optical detection in microfabricated chemical analysis systems. Applied Optics, 2003, 42, 4072.	2.1	176
84	Removal of PCR inhibitors using dielectrophoresis as a selective filter in a microsystem. Lab on A Chip, 2003, 3, 212.	6.0	46
85	Integrating advanced functionality in a microfabricated high-throughput fluorescent-activated cell sorter. Lab on A Chip, 2003, 3, 22.	6.0	354
86	<title>Microtools for cell handling</title>. , 2000, , .		5
87	Potential of Enzymatic Kinetic Resolution Using Solid Substrates Suspension: Improved Yield, Productivity, Substrate Concentration, and Recovery. Biotechnology Progress, 1999, 15, 216-227.	2.6	6
88	Understanding the influence of temperature change and cosolvent addition on conversion rate of enzymatic suspension reactions based on regime analysis. Biotechnology and Bioengineering, 1999, 62, 125-134.	3.3	0
89	Solid-to-solid kinetic resolution. Determination of the enantiomeric ratio. Journal of Molecular Catalysis B: Enzymatic, 1998, 5, 55-61.	1.8	4
90	Rare Event Cell Surging in a Microfluidic System for Application in Prenatal Diagnosis. , 1998, , 77-80.		10

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91	Cell Sorting in Microfluidic Systems. , 1998, , 39-44.		25
92	Solvent Induced Change of Enzyme Enantioselectivity: Rule Or Exception?. Biocatalysis and Biotransformation, 1997, 15, 175-184.	2.0	18
93	Simple dissolution-reaction model for enzymatic conversion of suspension of solid substrate. , 1997, 56, 433-440.		14
94	Sequential Kinetic Resolution by two Enantioselective Enzymes. Biocatalysis, 1994, 9, 31-47.	0.9	14
95	Enzymatic Resolution of Racemates Contaminated by Racemic Product. Biocatalysis, 1994, 11, 249-261.	0.9	4
96	Real-time monitoring of a dielectrophoresis based selective filter using microchip flow cytometry with integrated polymer waveguides. , 0, , .		0