JÃ¶rg P Kutter

List of Publications by Year
in descending order

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107	5,155	76196	88477
papers	citations	40 h-index	70 g-index

110	110	110	5486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electromembrane extraction in microfluidic formats. Journal of Separation Science, 2022, 45, 246-257.	1.3	19
2	Generation of transient and tunable oxygen gradients in microfluidic channels utilizing the oxygen scavenging properties of thiol-ene polymers. Microfluidics and Nanofluidics, 2022, 26, 1.	1.0	2
3	Preparation of Heat-Denatured Macroaggregated Albumin for Biomedical Applications Using a Microfluidics Platform. ACS Biomaterials Science and Engineering, 2021, 7, 2823-2834.	2.6	1
4	Non-aqueous electrophoresis integrated with electrospray ionization mass spectrometry on a thiol-ene polymerâ€“based microchip device. Analytical and Bioanalytical Chemistry, 2021, 413, 4195-4205.	1.9	0
5	Hydrogen/Deuterium Exchange Mass Spectrometry with Integrated Electrochemical Reduction and Microchip-Enabled Deglycosylation for Epitope Mapping of Heavily Glycosylated and Disulfide-Bonded Proteins. Analytical Chemistry, 2021, 93, 16330-16340.	3.2	17
6	Thiol-ene microfluidic chip for fast on-chip sample clean-up, separation and ESI mass spectrometry of peptides and proteins. Analytica Chimica Acta, 2020, 1140, 168-177.	2.6	12
7	Synergistic antibacterial effect of inhaled aztreonam and tobramycin fixed dose combination to combat multidrug-resistant Gram-negative bacteria. International Journal of Pharmaceutics, 2020, 590, 119877.	2.6	10
8	Improved antibacterial efficiency of inhaled thiamphenicol dry powders: Mathematical modelling of in vitro dissolution kinetic and in vitro antibacterial efficacy. European Journal of Pharmaceutical Sciences, 2020, 152, 105435.	1.9	5
9	Recent advances in microchip enantioseparation and analysis. Electrophoresis, 2020, 41, 2122-2135.	1.3	7
10	Thiolâ€“Ene Based Polymers as Versatile Materials for Microfluidic Devices for Life Sciences Applications. ACS Applied Materials & Interfaces, 2020, 12, 10080-10095.	4.0	73
11	A thiol-ene microfluidic device enabling continuous enzymatic digestion and electrophoretic separation as front-end to mass spectrometric peptide analysis. Analytical and Bioanalytical Chemistry, 2020, 412, 3559-3571.	1.9	17
12	Chloroform compatible, thiol-ene based replica molded micro chemical devices as an alternative to glass microfluidic chips. Lab on A Chip, 2019, 19, 798-806.	3.1	18
13	Onâ€chip electromembrane extraction of acidic drugs. Electrophoresis, 2019, 40, 2514-2521.	1.3	13
14	Oxygen Management at the Microscale: A Functional Biochip Material with Long-Lasting and Tunable Oxygen Scavenging Properties for Cell Culture Applications. ACS Applied Materials & Interfaces, 2019, 11, 9730-9739.	4.0	42
15	Thiol-ene Microfluidic Chip for Performing Hydrogen/Deuterium Exchange of Proteins at Subsecond Time Scales. Analytical Chemistry, 2019, 91, 1309-1317.	3.2	25
16	Microfluidic approaches for the production of monodisperse, superparamagnetic microspheres in the low micrometer size range. Journal of Magnetism and Magnetic Materials, 2019, 471, 286-293.	1.0	10
17	On-a-chip tryptic digestion of transthyretin: a step toward an integrated microfluidic system for the follow-up of familial transthyretin amyloidosis. Analyst, The, 2018, 143, 1077-1086.	1.7	8
18	Continuous electromembrane extraction coupled with mass spectrometry â€“ Perspectives and challenges. Analytica Chimica Acta, 2018, 999, 27-36.	2.6	12

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19	Nanoliter-Scale Electromembrane Extraction and Enrichment in a Microfluidic Chip. Analytical Chemistry, 2018, 90, 9322-9329.	3.2	44
20	An all thiolâ€“ene microchip for solid phase extraction featuring an in situ polymerized monolith and integrated 3D replica-molded emitter for direct electrospray mass spectrometry. Analytical Methods, 2018, 10, 2854-2862.	1.3	10
21	A multi-chamber microfluidic intestinal barrier model using Caco-2 cells for drug transport studies. PLoS ONE, 2018, 13, e0197101.	1.1	90
22	Micro-droplet arrays for micro-compartmentalization using an air/water interface. Lab on A Chip, 2018, 18, 2797-2805.	3.1	18
23	Thiol-ene Monolithic Pepsin Microreactor with a 3D-Printed Interface for Efficient UPLC-MS Peptide Mapping Analyses. Analytical Chemistry, 2017, 89, 4573-4580.	3.2	41
24	Microfluidic Platform for the Continuous Production and Characterization of Multilamellar Vesicles: A Synchrotron Small-Angle X-ray Scattering (SAXS) Study. Journal of Physical Chemistry Letters, 2017, 8, 73-79.	2.1	34
25	Roll-to-plate fabrication of microfluidic devices with rheology-modified thiol-ene resins. Journal of Micromechanics and Microengineering, 2016, 26, 075014.	1.5	11
26	Direct monitoring of calcium-triggered phase transitions in cubosomes using small-angle X-ray scattering combined with microfluidics. Journal of Applied Crystallography, 2016, 49, 2005-2014.	1.9	26
27	Recent advances in X-ray compatible microfluidics for applications in soft materials and life sciences. Lab on A Chip, 2016, 16, 4263-4295.	3.1	91
28	A neutral polyacrylate copolymer coating for surface modification of thiol-ene microchannels for improved performance of protein separation by microchip electrophoresis. Mikrochimica Acta, 2016, 183, 2111-2121.	2.5	18
29	Recent advances in lab-on-a-chip for biosensing applications. Biosensors and Bioelectronics, 2016, 76, 213-233.	5.3	193
30	Rapid and simple preparation of thiolâ€“ene emulsion-templated monoliths and their application as enzymatic microreactors. Lab on A Chip, 2015, 15, 2162-2172.	3.1	51
31	Three-layer poly(methyl methacrylate) microsystem for analysis of lysosomal enzymes for diagnostic purposes. Analytica Chimica Acta, 2015, 853, 702-709.	2.6	5
32	Surface functionalized thiolâ€ene waveguides for fluorescence biosensing in microfluidic devices. Electrophoresis, 2014, 35, 282-288.	1.3	39
33	The MainSTREAM Component Platform. Journal of the Association for Laboratory Automation, 2013, 18, 212-228.	2.8	25
34	Rapid photochemical surface patterning of proteins in thiolâ€“ene based microfluidic devices. Analyst, The, 2013, 138, 845-849.	1.7	49
35	Fabrication and bonding of thiol-ene-based microfluidic devices. Journal of Micromechanics and Microengineering, 2013, 23, 037002.	1.5	40
36	Integrating Carbon Nanotubes into Microfluidic Chips for Separating Biochemical Compounds. Materials Research Society Symposia Proceedings, 2012, 1371, 57.	0.1	0

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37	Carbon nanotube based stationary phases for microchip chromatography. Lab on A Chip, 2012, 12, 1951.	3.1	21
38	Thick-film voltammetric pH-sensors with internal indicator and reference species. Talanta, 2012, 99, 737-743.	2.9	10
39	Gold nanoparticle-based optical microfluidic sensors for analysis of environmental pollutants. Lab on A Chip, 2012, 12, 4651.	3.1	81
40	Lab on a Chip: Scandinavia. Lab on A Chip, 2012, 12, 4601.	3.1	0
41	Detection of unlabeled particles in the low micrometer size range using light scattering and hydrodynamic 3D focusing in a microfluidic system. Electrophoresis, 2012, 33, 1715-1722.	1.3	12
42	Liquid phase chromatography on microchips. Journal of Chromatography A, 2012, 1221, 72-82.	1.8	107
43	On-Chip Electro Membrane Extraction with Online Ultraviolet and Mass Spectrometric Detection. Analytical Chemistry, 2011, 83, 44-51.	3.2	93
44	Nanofluidic Devices with Two Pores in Series for Resistive-Pulse Sensing of Single Virus Capsids. Analytical Chemistry, 2011, 83, 9573-9578.	3.2	100
45	Carbon nanotube based separation columns for high electrical field strengths in microchip electrochromatography. Lab on A Chip, 2011, 11, 2116.	3.1	68
46	Polymer microvalve with pre-stressed membranes for tunable flowâ€“pressure characteristics. Microfluidics and Nanofluidics, 2011, 10, 381-388.	1.0	11
47	Improved bacteria detection by coupling magneto-immunocapture and amperometry at flow-channel microband electrodes. Biosensors and Bioelectronics, 2011, 26, 3633-3640.	5.3	69
48	Automated microfluidic sample-preparation platform for high-throughput structural investigation of proteins by small-angle X-ray scattering. Journal of Applied Crystallography, 2011, 44, 1090-1099.	1.9	31
49	Disposable Miniaturized Screenâ€Printed pH and Reference Electrodes for Potentiometric Systems. Electroanalysis, 2011, 23, 115-121.	1.5	16
50	Fiberâ€free coupling between bulk laser beams and onâ€chip polymerâ€based multimode waveguides. Electrophoresis, 2011, 32, 1224-1232.	1.3	7
51	Microfluidics and Miniaturization. Electrophoresis, 2011, 32, 3093-3093.	1.3	2
52	Anti-stiction coating of PDMS moulds for rapid microchannel fabrication by double replica moulding. Journal of Micromechanics and Microengineering, 2011, 21, 105020.	1.5	25
53	Construction and characterisation of a modular microfluidic system: coupling magnetic capture and electrochemical detection. Microfluidics and Nanofluidics, 2010, 8, 393-402.	1.0	27
54	Cyclic olefin polymers: emerging materials for lab-on-a-chip applications. Microfluidics and Nanofluidics, 2010, 9, 145-161.	1.0	332

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55	Characterization of a patch-clamp microchannel array towards neuronal networks analysis. Microfluidics and Nanofluidics, 2010, 9, 963-972.	1.0	9
56	Nanoparticleâ€based capillary electroseparation of proteins in polymer capillaries under physiological conditions. Electrophoresis, 2010, 31, 459-464.	1.3	23
57	Microchip electroseparation of proteins using lipidâ€based nanoparticles. Electrophoresis, 2010, 31, 3696-3702.	1.3	6
58	Miniaturization 2010. Electrophoresis, 2010, 31, 3621-3621.	1.3	0
59	Refractive Index Sensor Based on a 1D Photonic Crystal in a Microfluidic Channel. Sensors, 2010, 10, 2348-2358.	2.1	47
60	A cyclo olefin polymer microfluidic chip with integrated gold microelectrodes for aqueous and non-aqueous electrochemistry. Lab on A Chip, 2010, 10, 1254.	3.1	49
61	Integration of a zero dead-volume PDMS rotary switch valve in a miniaturised (bio)electroanalytical system. Lab on A Chip, 2010, 10, 1841.	3.1	14
62	Optical detection in microfluidic systems. Electrophoresis, 2009, 30, S92-100.	1.3	89
63	Electrophoresis microchip with integrated waveguides for simultaneous native UV fluorescence and absorbance detection. Electrophoresis, 2009, 30, 4172-4178.	1.3	34
64	Spatial confinement of ultrasonic force fields in microfluidic channels. Ultrasonics, 2009, 49, 112-119.	2.1	63
65	Underivatized cyclic olefin copolymer as substrate material and stationary phase for capillary and microchip electrochromatography. Electrophoresis, 2008, 29, 3145-3152.	1.3	45
66	High-Throughput Small Angle X-ray Scattering from Proteins in Solution Using a Microfluidic Front-End. Analytical Chemistry, 2008, 80, 3648-3654.	3.2	88
67	Miniaturization 2007 issue. Electrophoresis, 2007, 28, 4509-4509.	1.3	0
68	Chromatography in Microstructures. , 2007, , 439-469.		0
69	AC electroosmotic pump with bubble-free palladium electrodes and rectifying polymer membrane valves. Lab on A Chip, 2006, 6, 280-288.	3.1	46
70	Towards a portable microchip system with integrated thermal control and polymer waveguides for real-time PCR. Electrophoresis, 2006, 27, 5051-5058.	1.3	22
71	Dielectrophoresis microsystem with integrated flow cytometers for on-line monitoring of sorting efficiency. Electrophoresis, 2006, 27, 5081-5092.	1.3	29
72	Miniaturization 2006 Issue. Electrophoresis, 2006, 27, 4875-4875.	1.3	0

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73	A low-energy, turning microvalve with high-pressure seals: scaling of friction. Journal of Micromechanics and Microengineering, 2006, 16, 2121-2127.	1.5	4
74	Editorial: Electrophoresis 24/2005. Electrophoresis, 2005, 26, 4573-4573.	1.3	0
75	Microfabricated porous glass channels for electrokinetic separation devices. Lab on A Chip, 2005, 5, 1310.	3.1	24
76	Long-term stable electroosmotic pump with ion exchange membranes. Lab on A Chip, 2005, 5, 730.	3.1	88
77	Fully integrated optical systems for lab-on-a-chip applications. , 2005, 5730, 211.		14
78	Microstructure fabrication with a CO2 laser system. Journal of Micromechanics and Microengineering, 2004, 14, 182-189.	1.5	142
79	Effect of Joule heating on efficiency and performance for microchip-based and capillary-based electrophoretic separation systems: A closer look. Electrophoresis, 2004, 25, 253-269.	1.3	109
80	Pure-silica optical waveguides, fiber couplers, and high-aspect ratio submicrometer channels for electrokinetic separation devices. Electrophoresis, 2004, 25, 3788-3795.	1.3	49
81	Recent developments in detection for microfluidic systems. Electrophoresis, 2004, 25, 3498-3512.	1.3	218
82	Separation and quantification of cellulases and hemicellulases by capillary electrophoresis. Analytical Biochemistry, 2003, 317, 85-93.	1.1	40
83	A biochemical microdevice with an integrated chemiluminescence detector. Sensors and Actuators B: Chemical, 2003, 90, 15-21.	4.0	66
84	A Microfluidic Device with an Integrated Waveguide Beam Splitter for Velocity Measurements of Flowing Particles by Fourier Transformation. Analytical Chemistry, 2003, 75, 4931-4936.	3.2	43
85	Integration of polymer waveguides for optical detection in microfabricated chemical analysis systems. Applied Optics, 2003, 42, 4072.	2.1	176
86	CO2 laser microfabrication of an integrated polymer microfluidic manifold for the determination of phosphorus. Lab on A Chip, 2003, 3, 221.	3.1	28
87	Preface. Talanta, 2002, 56, 221.	2.9	5
88	Performance of an in-plane detection cell with integrated waveguides for UV/Vis absorbance measurements on microfluidic separation devices. Electrophoresis, 2002, 23, 3528-3536.	1.3	95
89	CO2-laser micromachining and back-end processing for rapid production of PMMA-based microfluidic systems. Lab on A Chip, 2002, 2, 242.	3.1	432
90	Ultraviolet transparent silicon oxynitride waveguides for biochemical microsystems. Optics Letters, 2001, 26, 716.	1.7	41

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91	Monolithic integration of microfluidic channels and optical waveguides in silica on silicon. Applied Optics, 2001, 40, 6246.	2.1	72
92	Monolithic integration of optical waveguides for absorbance detection in microfabricated electrophoresis devices. Electrophoresis, 2001, 22, 3930-3938.	1.3	112
93	Integrated optical measurement system for fluorescence spectroscopy in microfluidic channels. Review of Scientific Instruments, 2001, 72, 229-233.	0.6	75
94	Monolithic integration of optical waveguides for absorbance detection in microfabricated electrophoresis devices. , 2001, 22, 3930.		1
95	In-Plane UV Absorbance Detection in Silicon-Based Electrophoresis Devices Using Monolithically Integrated Optical Waveguides. , 2001, , 280-282.		1
96	Solid phase extraction on microfluidic devices. Journal of Separation Science, 2000, 12, 93-97.	1.0	97
97	Current developments in electrophoretic and chromatographic separation methods on microfabricated devices. TrAC - Trends in Analytical Chemistry, 2000, 19, 352-363.	5.8	176
98	Influence of Counter Pressure on Separation Performance in SDS-MEKC. Journal of High Resolution Chromatography, 1998, 21, 435-439.	2.0	12
99	Determination of metal cations in microchip electrophoresis using on-chip complexation and sample stacking. Journal of Separation Science, 1998, 10, 313-319.	1.0	63
100	Solvent-Programmed Microchip Open-Channel Electrochromatography. Analytical Chemistry, 1998, 70, 3291-3297.	3.2	156
101	Rapid Electrophoretic and Chromatographic Analysis on Microchips. , 1998, , 315-318.		2
102	Integrated Microchip Device with Electrokinetically Controlled Solvent Mixing for Isocratic and Gradient Elution in Micellar Electrokinetic Chromatography. Analytical Chemistry, 1997, 69, 5165-5171.	3.2	127
103	Use of charge transfer interacting additives in electrokinetic chromatography. Journal of Separation Science, 1997, 9, 15-20.	1.0	9
104	The effect of electroosmotic and hydrodynamic flow profile superposition on band broadening in capillary electrophoresis. Journal of High Resolution Chromatography, 1995, 18, 741-744.	2.0	14
105	Analytical Chemistry on Microsystems. , 0, , 213-249.		0
106	Electrokinetic Chromatography on Microfluidic Devices. , 0, , 337-349.		1
107	Direct Electromembrane Extractionâ€Based Mass Spectrometry: A Tool for Studying Drug Metabolism Properties of Liver Organoids. Analysis & Sensing, 0, , .	1.1	3