

Holger Becker

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

5,094
citations

236925

25
h-index

206112

48
g-index

73
all docs

73
docs citations

73
times ranked

4778
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer microfluidic devices. <i>Talanta</i> , 2002, 56, 267-287.	5.5	1,065
2	Polymer microfabrication technologies for microfluidic systems. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 89-111.	3.7	887
3	Polymer microfabrication methods for microfluidic analytical applications. <i>Electrophoresis</i> , 2000, 21, 12-26.	2.4	762
4	Hot embossing as a method for the fabrication of polymer high aspect ratio structures. <i>Sensors and Actuators A: Physical</i> , 2000, 83, 130-135.	4.1	575
5	Hype, hope and hubris: the quest for the killer application in microfluidics. <i>Lab on A Chip</i> , 2009, 9, 2119.	6.0	255
6	Polymer microfabrication technologies. <i>Microsystem Technologies</i> , 2002, 8, 32-36.	2.0	151
7	Fabrication of plastic microchips by hot embossing. <i>Lab on A Chip</i> , 2002, 2, 1.	6.0	127
8	Liver-Kidney-on-Chip To Study Toxicity of Drug Metabolites. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 78-89.	5.2	102
9	Deterministic Lateral Displacement: Challenges and Perspectives. <i>ACS Nano</i> , 2020, 14, 10784-10795.	14.6	97
10	Planar quartz chips with submicron channels for two-dimensional capillary electrophoresis applications. <i>Journal of Micromechanics and Microengineering</i> , 1998, 8, 24-28.	2.6	85
11	“Artificial micro organs” a microfluidic device for dielectrophoretic assembly of liver sinusoids. <i>Biomedical Microdevices</i> , 2011, 13, 493-501.	2.8	82
12	It's the economy! . <i>Lab on A Chip</i> , 2009, 9, 2759.	6.0	79
13	Accelerating innovation and commercialization through standardization of microfluidic-based medical devices. <i>Lab on A Chip</i> , 2021, 21, 9-21.	6.0	69
14	All-polymer photonic sensing platform based on whispering-gallery mode microgoblet lasers. <i>Lab on A Chip</i> , 2015, 15, 3800-3806.	6.0	67
15	PDMS free-flow electrophoresis chips with integrated partitioning bars for bubble segregation. <i>Lab on A Chip</i> , 2011, 11, 309-314.	6.0	55
16	A novel microfluidic 3D platform for culturing pancreatic ductal adenocarcinoma cells: comparison with in vitro cultures and in vivo xenografts. <i>Scientific Reports</i> , 2017, 7, 1325.	3.3	53
17	Mind the gap!. <i>Lab on A Chip</i> , 2010, 10, 271-273.	6.0	51
18	Label-Free and Real-Time Detection of Tuberculosis in Human Urine Samples Using a Nanophotonic Point-of-Care Platform. <i>ACS Sensors</i> , 2018, 3, 2079-2086.	7.8	44

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19	Polymer based micro-reactors. <i>Reviews in Molecular Biotechnology</i> , 2001, 82, 89-99.	2.8	43
20	A low-cost integrated biosensing platform based on SiN nanophotonics for biomarker detection in urine. <i>Analytical Methods</i> , 2018, 10, 3066-3073.	2.7	39
21	Micro free-flow electrophoresis with injection molded chips. <i>RSC Advances</i> , 2012, 2, 520-525.	3.6	38
22	Chips, money, industry, education and the "killer application". <i>Lab on A Chip</i> , 2009, 9, 1659.	6.0	35
23	Chemical analysis in photostructurable glass chips. <i>Sensors and Actuators B: Chemical</i> , 2002, 86, 271-279.	7.8	33
24	One size fits all?. <i>Lab on A Chip</i> , 2010, 10, 1894.	6.0	31
25	Embedded Disposable Functionalized Electrochemical Biosensor with a 3D-Printed Flow Cell for Detection of Hepatic Oval Cells (HOCs). <i>Genes</i> , 2018, 9, 89.	2.4	31
26	Blister pouches for effective reagent storage on microfluidic chips for blood cell counting. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	25
27	All I want for Christmas . <i>Lab on A Chip</i> , 2011, 11, 1571.	6.0	22
28	Moving the solid phase: a platform technology for cartridge based sandwich immunoassays. <i>Biomedical Microdevices</i> , 2014, 16, 163-172.	2.8	20
29	Microfluidics and the Life Sciences. <i>Science Progress</i> , 2012, 95, 175-198.	1.9	16
30	Microfluidics-Enabled Diagnostic Systems: Markets, Challenges, and Examples. <i>Methods in Molecular Biology</i> , 2017, 1547, 3-21.	0.9	13
31	Lost in translation. <i>Lab on A Chip</i> , 2010, 10, 813.	6.0	12
32	HepaChip-MP " a twenty-four chamber microplate for a continuously perfused liver coculture model. <i>Lab on A Chip</i> , 2020, 20, 2911-2926.	6.0	12
33	Microfluidic toolbox: tools and standardization solutions for microfluidic devices for life sciences applications. , 2004, , .		10
34	IP or no IP: that is the question. <i>Lab on A Chip</i> , 2009, 9, 3327.	6.0	10
35	Start me up . <i>Lab on A Chip</i> , 2010, 10, 3197.	6.0	9
36	Parallelizable Microfluidic Platform to Model and Assess In Vitro Cellular Barriers: Technology and Application to Study the Interaction of 3D Tumor Spheroids with Cellular Barriers. <i>Biosensors</i> , 2021, 11, 314.	4.7	9

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37	Microfluidics: a technology coming of age. Medical Device Technology, 2008, 19, 21-4.	0.1	9
38	Monitoring cytochrome P450 activity in living hepatocytes by chromogenic substrates in response to drug treatment or during cell maturation. Archives of Toxicology, 2018, 92, 1133-1149.	4.2	6
39	Hybrid microfluidic systems: combining a polymer microfluidic toolbox with biosensors. , 2007, , .		5
40	Collective wisdom. Lab on A Chip, 2010, 10, 1351.	6.0	5
41	A lab-on-a-chip system for the development of complex assays using modular microfluidic components. Proceedings of SPIE, 2012, , .	0.8	5
42	A microfluidic platform with integrated arrays for immunologic assays for biological pathogen detection. Proceedings of SPIE, 2014, , .	0.8	4
43	Microfluidic devices for cell culture and handling in organ-on-a-chip applications. , 2014, , .		4
44	Modular microfluidic cartridge-based universal diagnostic system for global health applications. Proceedings of SPIE, 2016, , .	0.8	4
45	Portable integrated capillary-electrophoresis system using disposable polymer chips with capacitively coupled contactless conductivity detection for on-site analysis of foodstuff. , 2009, , .		3
46	Opportunities and limits of cell-based assay miniaturization in drug discovery. Expert Opinion on Drug Discovery, 2010, 5, 673-679.	5.0	3
47	A sample-in result-out lab-on-a-chip device: from prototype to mass fabrication. Proceedings of SPIE, 2011, , .	0.8	3
48	Magnetic particle-based sample-prep and valveing in microfluidic devices. , 2012, , .		3
49	Sensor enhanced microfluidic devices for cell based assays and organs on chip. , 2015, , .		3
50	Microfluidic system for the identification of bacterial pathogens causing urinary tract infections. , 2015, , .		3
51	Blister pouches for effective reagent storage and release for low cost point-of-care diagnostic applications. Proceedings of SPIE, 2016, , .	0.8	3
52	Polymer based microfluidic devices: examples for fluidic interfaces and standardization concepts. , 2003, 4982, 99.		2
53	Free-flow electrophoresis with electrode-less injection molded chips. Proceedings of SPIE, 2011, , .	0.8	2
54	Two-component injection molding for microfluidic devices. Proceedings of SPIE, 2012, , .	0.8	2

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55	Polymeric Microfluidic Devices for High Performance Optical Imaging and Detection Methods in Bioanalytics. Springer Series on Chemical Sensors and Biosensors, 2012, , 271-288.	0.5	2
56	Multisense chip: continuously working air monitoring system: An integrated system for the detection of airborne biological pathogens on molecular and immunological level. , 2015, , .		2
57	Microfluidic devices for stem-cell cultivation, differentiation and toxicity testing. Proceedings of SPIE, 2017, , .	0.8	2
58	Continuous-flow PCR using segmented flow and integrating sample preparation. , 2009, , .		1
59	SmartHEALTH: a microfluidic multisensor platform for POC cancer diagnostics. , 2009, , .		1
60	Hybrid tooling technologies for injection molded and hot embossed polymeric microfluidic devices. , 2010, , .		1
61	Stationary microfluidics: molecular diagnostic assays by moving magnetic beads through non-moving liquids. , 2013, , .		1
62	Microfluidic devices for rapid identification and characterization of pathogens. , 2014, , 220-249.		1
63	SmartHEALTH: A multisensor platform for POC cancer diagnostics. , 2008, 2008, 11-2.		0
64	Microfluidic Manifolds with High Dynamic Range in Structural Dimensions Replicated in Thermoplastic Materials. Materials Research Society Symposia Proceedings, 2009, 1191, 7.	0.1	0
65	Lab-on-a-Chip European Congress 2010. Expert Opinion on Drug Discovery, 2010, 5, 903-905.	5.0	0
66	Non scholae sed vitae discimus!. Lab on A Chip, 2010, 10, 2497.	6.0	0
67	Integrated lab-on-a-chip: a combined sample preparation and PCR system as an ultrafast analytical tool for pathogen detection. Proceedings of SPIE, 2011, , .	0.8	0
68	Microfluidics. Optik & Photonik, 2011, 6, 52-55.	0.2	0
69	Lab-on-a-chip platforms from sample preparation via continuous-flow PCR to an ultrafast detection of B-agents. , 2012, , .		0
70	From microfluidic modules to an integrated Lab-on-a-chip system for the detection of Francisella tularensis. Proceedings of SPIE, 2013, , .	0.8	0
71	IFSA: a microfluidic chip-platform for frit-based immunoassay protocols. , 2013, , .		0
72	Lab-on-a-chip PCR: real time PCR in miniaturized format for HLA diagnostics. , 2014, , .		0

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73	Lab-on-a-chip enabled HLA diagnostic: combined sample preparation and real time PCR for HLA-B57 diagnosis. , 2015, , .		0