

# Holger Becker

## List of Publications by Year in descending order

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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	Accelerating innovation and commercialization through standardization of microfluidic-based medical devices. <i>Lab on A Chip</i> , 2021, 21, 9-21.	6.0	69
2	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
3	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
4	Deterministic Lateral Displacement: Challenges and Perspectives. <i>ACS Nano</i> , 2020, 14, 10784-10795.	14.6	97
5	Monitoring cytochrome P450 activity in living hepatocytes by chromogenic substrates in response to drug treatment or during cell maturation. <i>Archives of Toxicology</i> , 2018, 92, 1133-1149.	4.2	6
6	Liver-Kidney-on-Chip To Study Toxicity of Drug Metabolites. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 78-89.	5.2	102
7	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
8	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
9	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
10	Microfluidics-Enabled Diagnostic Systems: Markets, Challenges, and Examples. <i>Methods in Molecular Biology</i> , 2017, 1547, 3-21.	0.9	13
11	Microfluidic devices for stem-cell cultivation, differentiation and toxicity testing. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
12	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
13	Blister pouches for effective reagent storage on microfluidic chips for blood cell counting. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	25
14	Modular microfluidic cartridge-based universal diagnostic system for global health applications. <i>Proceedings of SPIE</i> , 2016, , .	0.8	4
15	Blister pouches for effective reagent storage and release for low cost point-of-care diagnostic applications. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
16	Sensor enhanced microfluidic devices for cell based assays and organs on chip. , 2015, , .		3
17	Multisense chip: continuously working air monitoring system: An integrated system for the detection of airborne biological pathogens on molecular and immunological level. , 2015, , .		2
18	Microfluidic system for the identification of bacterial pathogens causing urinary tract infections. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Lab-on-a-chip enabled HLA diagnostic: combined sample preparation and real time PCR for HLA-B57 diagnosis. , 2015, , .		0
20	All-polymer photonic sensing platform based on whispering-gallery mode microgoblet lasers. Lab on A Chip, 2015, 15, 3800-3806.	6.0	67
21	Lab-on-a-chip PCR: real time PCR in miniaturized format for HLA diagnostics. , 2014, , .		0
22	A microfluidic platform with integrated arrays for immunologic assays for biological pathogen detection. Proceedings of SPIE, 2014, , .	0.8	4
23	Microfluidic devices for cell culture and handling in organ-on-a-chip applications. , 2014, , .		4
24	Moving the solid phase: a platform technology for cartridge based sandwich immunoassays. Biomedical Microdevices, 2014, 16, 163-172.	2.8	20
25	Microfluidic devices for rapid identification and characterization of pathogens. , 2014, , 220-249.		1
26	From microfluidic modules to an integrated Lab-on-a-chip system for the detection of <i>Francisella tularensis</i> . Proceedings of SPIE, 2013, , .	0.8	0
27	IFSA: a microfluidic chip-platform for frit-based immunoassay protocols. , 2013, , .		0
28	Stationary microfluidics: molecular diagnostic assays by moving magnetic beads through non-moving liquids. , 2013, , .		1
29	Magnetic particle-based sample-prep and valveing in microfluidic devices. , 2012, , .		3
30	Microfluidics and the Life Sciences. Science Progress, 2012, 95, 175-198.	1.9	16
31	A lab-on-a-chip system for the development of complex assays using modular microfluidic components. Proceedings of SPIE, 2012, , .	0.8	5
32	Two-component injection molding for microfluidic devices. Proceedings of SPIE, 2012, , .	0.8	2
33	Micro free-flow electrophoresis with injection molded chips. RSC Advances, 2012, 2, 520-525.	3.6	38
34	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
35	Lab-on-a-chip platforms from sample preparation via continuous-flow PCR to an ultrafast detection of B-agents. , 2012, , .		0
36	All I want for Christmas€ . Lab on A Chip, 2011, 11, 1571.	6.0	22

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37	PDMS free-flow electrophoresis chips with integrated partitioning bars for bubble segregation. Lab on A Chip, 2011, 11, 309-314.	6.0	55
38	A sample-in result-out lab-on-a-chip device: from prototype to mass fabrication. Proceedings of SPIE, 2011, , .	0.8	3
39	Free-flow electrophoresis with electrode-less injection molded chips. Proceedings of SPIE, 2011, , .	0.8	2
40	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
41	Microfluidics. Optik & Photonik, 2011, 6, 52-55.	0.2	0
42	“Artificial micro organs” a microfluidic device for dielectrophoretic assembly of liver sinusoids. Biomedical Microdevices, 2011, 13, 493-501.	2.8	82
43	Lab-on-a-Chip European Congress 2010. Expert Opinion on Drug Discovery, 2010, 5, 903-905.	5.0	0
44	Hybrid tooling technologies for injection molded and hot embossed polymeric microfluidic devices. , 2010, , .		1
45	Opportunities and limits of cell-based assay miniaturization in drug discovery. Expert Opinion on Drug Discovery, 2010, 5, 673-679.	5.0	3
46	Start me up! . Lab on A Chip, 2010, 10, 3197.	6.0	9
47	Non scholae sed vitae discimus!. Lab on A Chip, 2010, 10, 2497.	6.0	0
48	Mind the gap!. Lab on A Chip, 2010, 10, 271-273.	6.0	51
49	One size fits all?. Lab on A Chip, 2010, 10, 1894.	6.0	31
50	Lost in translation. Lab on A Chip, 2010, 10, 813.	6.0	12
51	Collective wisdom. Lab on A Chip, 2010, 10, 1351.	6.0	5
52	Microfluidic Manifolds with High Dynamic Range in Structural Dimensions Replicated in Thermoplastic Materials. Materials Research Society Symposia Proceedings, 2009, 1191, 7.	0.1	0
53	Continuous-flow PCR using segmented flow and integrating sample preparation. , 2009, , .		1
54	Portable integrated capillary-electrophoresis system using disposable polymer chips with capacitively coupled contactless conductivity detection for on-site analysis of foodstuff. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
55	Chips, money, industry, education and the "killer application". Lab on A Chip, 2009, 9, 1659.	6.0	35
56	IP or no IP: that is the question. Lab on A Chip, 2009, 9, 3327.	6.0	10
57	Hype, hope and hubris: the quest for the killer application in microfluidics. Lab on A Chip, 2009, 9, 2119.	6.0	255
58	It's the economy! Lab on A Chip, 2009, 9, 2759.	6.0	79
59	SmartHEALTH: a microfluidic multisensor platform for POC cancer diagnostics. , 2009, , .		1
60	Polymer microfabrication technologies for microfluidic systems. Analytical and Bioanalytical Chemistry, 2008, 390, 89-111.	3.7	887
61	SmartHEALTH: A multisensor platform for POC cancer diagnostics. , 2008, 2008, 11-2.		0
62	Microfluidics: a technology coming of age. Medical Device Technology, 2008, 19, 21-4.	0.1	9
63	Hybrid microfluidic systems: combining a polymer microfluidic toolbox with biosensors. , 2007, , .		5
64	Microfluidic toolbox: tools and standardization solutions for microfluidic devices for life sciences applications. , 2004, , .		10
65	Polymer based microfluidic devices: examples for fluidic interfaces and standardization concepts. , 2003, 4982, 99.		2
66	Fabrication of plastic microchips by hot embossing. Lab on A Chip, 2002, 2, 1.	6.0	127
67	Polymer microfluidic devices. Talanta, 2002, 56, 267-287.	5.5	1,065
68	Polymer microfabrication technologies. Microsystem Technologies, 2002, 8, 32-36.	2.0	151
69	Chemical analysis in photostructurable glass chips. Sensors and Actuators B: Chemical, 2002, 86, 271-279.	7.8	33
70	Polymer based micro-reactors. Reviews in Molecular Biotechnology, 2001, 82, 89-99.	2.8	43
71	Polymer microfabrication methods for microfluidic analytical applications. Electrophoresis, 2000, 21, 12-26.	2.4	762
72	Hot embossing as a method for the fabrication of polymer high aspect ratio structures. Sensors and Actuators A: Physical, 2000, 83, 130-135.	4.1	575

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73	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