Klaus Drese

List of Publications by Year
in descending order

56	1,725	304743	289244
papers	citations	22 h-index	40 g-index

59	59	59	1984
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Helical flows and chaotic mixing in curved micro channels. AICHE Journal, 2004, 50, 2297-2305.	3.6	300
2	Passive micromixers for applications in the microreactor andÂÎ¼TAS fields. Microfluidics and Nanofluidics, 2005, 1, 108-118.	2.2	154
3	Utilization of Micromixers for Extraction Processes. Chemical Engineering and Technology, 2001, 24, 11-17.	1.5	141
4	Floquet theory for short laser pulses. European Physical Journal D, 1999, 5, 119-134.	1.3	99
5	Amperometric Immunosensor for Carcinoembryonic Antigen in Colon Cancer Samples Based on Monolayers of Dendritic Bipodal Scaffolds. Analytical Chemistry, 2010, 82, 1712-1719.	6.5	92
6	Parallel nanoliter detection of cancer markers using polymer microchips. Lab on A Chip, 2005, 5, 416-420.	6.0	91
7	Electrophoretic partitioning of proteins in two-phase microflows. Lab on A Chip, 2007, 7, 98-102.	6.0	68
8	Integrated microfluidic platform for the electrochemical detection of breast cancer markers in patient serum samples. Lab on A Chip, 2011, 11, 625-631.	6.0	67
9	Steering of Liquid Mixing Speed in Interdigital Micro Mixersâ€“ From Very Fast to Deliberately Slow Mixing. Chemical Engineering and Technology, 2004, 27, 340-345.	1.5	65
10	Exploring a Metal-Insulator Transition with Ultracold Atoms in Standing Light Waves?. Physical Review Letters, 1997, 78, 2932-2935.	7.8	53
11	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. Electrophoresis, 2009, 30, 3398-3405.	2.4	45
12	Automated chip-based device for simple and fast nucleic acid amplification. Expert Review of Molecular Diagnostics, 2005, 5, 613-620.	3.1	37
13	Ultracold atoms in modulated standing light waves. Chemical Physics, 1997, 217, 201-219.	1.9	33
14	Integrated DNA and RNA extraction and purification on an automated microfluidic cassette from bacterial and viral pathogens causing community-acquired lower respiratory tract infections. Lab on A Chip, 2014, 14, 1519-1526.	6.0	32
15	Perturbative and nonperturbative processes in adiabatic population transfer. European Physical Journal D, 1998, 3, 73-86.	1.3	30
16	Optimization of interdigital micromixers via analytical modelingâ€”exemplified with the SuperFocus mixer. Chemical Engineering Journal, 2004, 101, 403-407.	12.7	30
17	Microsystem for Isolation of Fetal DNA from Maternal Plasma by Preparative Size Separation. Clinical Chemistry, 2009, 55, 2144-2152.	3.2	30
18	Automated microsystem for electrochemical detection of cancer markers. Electrophoresis, 2011, 32, 926-930.	2.4	30

#	Article	IF	Citations
19	Modelling immunomagnetic cell capture in CFD. Microfluidics and Nanofluidics, 2009, 7, 205-216.	2.2	27
20	Hands-free sample preparation platform for nucleic acid analysis. Lab on A Chip, 2009, 9, 3399.	6.0	24
21	Towards a â€œSample-In, Answer-Outâ€•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.	1.3	24
22	Fast preparation and testing methods using a microstructured modular reactor for parallel gas phase catalyst screening. Catalysis Today, 2003, 81, 377-391.	4.4	22
23	On-chip analysis of respiratory viruses from nasopharyngeal samples. Biomedical Microdevices, 2011, 13, 819-827.	2.8	21
24	Fast nucleic acid amplification for integration in pointâ€ofâ€care applications. Electrophoresis, 2012, 33, 3222-3228.	2.4	20
25	Modeling size controlled nanoparticle precipitation with the co-solvency method by spinodal decomposition. Soft Matter, 2016, 12, 7231-7240.	2.7	19
26	Compact, cost-efficient microfluidics-based stopped-flow device. Analytical and Bioanalytical Chemistry, 2011, 399, 1117-1125.	3.7	18
27	Microsystem for Field-Amplified Electrokinetic Trapping Preconcentration of DNA at Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	6.5	17
28	Anderson localization in an ac-driven two-band model. Journal of Physics Condensed Matter, 1996, 8, 1193-1206.	1.8	14
29	Simulating copolymeric nanoparticle assembly in the co-solvent method: How mixing rates control final particle sizes and morphologies. Polymer, 2017, 126, 9-18.	3.8	14
30	Microfluorimeter with disposable polymer chip for detection of coeliac disease toxic gliadin. Lab on A Chip, 2009, 9, 3535.	6.0	13
31	Design Rules for Electroforming in the LIGA Process. Journal of the Electrochemical Society, 2004, 151, D39.	2.9	10
32	A Î¼-Fluidic Mixing Network. Chemical Engineering and Technology, 2005, 28, 362-366.	1.5	9
33	Phase diagram for a modified Harper model. Physical Review B, 1997, 55, R14693-R14696.	3.2	7
34	Passive Micro Mixers for Applications in the Micro Reactor and ÂµTAS Field. , 2004, , 45.		7
35	Editors' Choiceâ€”The Enhancement of Ion Transport in an Electrochemical Cell Using High Frequency Vibration for the Electropolishing of Copper. Journal of the Electrochemical Society, 2018, 165, E236-E244.	2.9	7
36	Monitoring of Soft Deposition Layers in Liquid-Filled Tubes with Guided Acoustic Waves Excited by Clamp-on Transducers. Sensors, 2018, 18, 526.	3.8	7

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37	Time scale of quasifission from giant dipole resonance Î³-ray yield. Physical Review C, 1995, 51, 2218-2221.	2.9	6
38	<title>Micromachined flow-handling components: micropumps</title>. , 1999, , .		4
39	Diode laser welding for packaging of transparent micro-structured polymer chips. , 2006, , .		4
40	Elastic Properties Measurement Using Guided Acoustic Waves. Sensors, 2021, 21, 6675.	3.8	4
41	Modelling Immunomagnetic Cell Capture in CFD. , 2008, , .		3
42	Nucleic Acid Amplification in Microsystems. , 2007, , 523-567.		2
43	Lab-on-chip for the Isolation and Characterization of Circulating Tumor Cells. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6447-9.	0.5	1
44	SmartHEALTH: a microfluidic multisensor platform for POC cancer diagnostics. , 2009, , .		1
45	From sample-to-answer: integrated genotyping and immunological analysis microfluidic platforms for the diagnostic and treatment of coeliac disease. , 2011, , .		1
46	Water analysis in a lab-on-a-chip system. , 2006, 6112, 12.		0
47	The MicroActive project: automatic detection of disease-related molecular cell activity. , 2007, , .		0
48	New Lab-on-a-Chip System for Infectious Disease Analysis. , 2010, , .		0
49	Development of an integrated microsystem for the multiplexed detection of breast cancer markers in serum using electrochemical immunosensors. , 2010, , .		0
50	Numerical Study of Micromixers for Stopped Flow. , 2011, , .		0
51	Justification of rapid prototyping in the development cycle of thermoplasticâ€based labâ€onâ€aâ€chip. Electrophoresis, 2011, 32, 3115-3120.	2.4	0
52	Automated DNA-preparation system for bacteria out of air sampler liquids. , 2012, , .		0
53	ZÃhlen, Sortieren und Charakterisieren. Physik in Unserer Zeit, 2016, 47, 91-95.	0.0	0
54	Selective solvent evaporation from binary mixtures of water and tetrahydrofuran using a falling film microreactor. Green Processing and Synthesis, 2017, 6, .	3.4	0

#	Article	IF	Citations
55	Ultrasound Measurement Technique for Validation of Cryogenic Flows. Proceedings (mdpi), 2018, 2, .	0.2	0
56	Actuation of Liquid Flow by Guided Acoustic Waves on Punched Steel Tapes with Protruding Loops. Journal of Bionic Engineering, 2021, 18, 534-547.	5.0	0