

Klaus Drese

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1834743/publications.pdf>

Version: 2024-02-01

56
papers

1,725
citations

304743

22
h-index

289244

40
g-index

59
all docs

59
docs citations

59
times ranked

1984
citing authors

#	ARTICLE	IF	CITATIONS
1	Actuation of Liquid Flow by Guided Acoustic Waves on Punched Steel Tapes with Protruding Loops. <i>Journal of Bionic Engineering</i> , 2021, 18, 534-547.	5.0	0
2	Elastic Properties Measurement Using Guided Acoustic Waves. <i>Sensors</i> , 2021, 21, 6675.	3.8	4
3	Editors' Choice "The Enhancement of Ion Transport in an Electrochemical Cell Using High Frequency Vibration for the Electropolishing of Copper. <i>Journal of the Electrochemical Society</i> , 2018, 165, E236-E244.	2.9	7
4	Ultrasound Measurement Technique for Validation of Cryogenic Flows. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	0
5	Monitoring of Soft Deposition Layers in Liquid-Filled Tubes with Guided Acoustic Waves Excited by Clamp-on Transducers. <i>Sensors</i> , 2018, 18, 526.	3.8	7
6	Simulating copolymeric nanoparticle assembly in the co-solvent method: How mixing rates control final particle sizes and morphologies. <i>Polymer</i> , 2017, 126, 9-18.	3.8	14
7	Selective solvent evaporation from binary mixtures of water and tetrahydrofuran using a falling film microreactor. <i>Green Processing and Synthesis</i> , 2017, 6, .	3.4	0
8	Zählen, Sortieren und Charakterisieren. <i>Physik in Unserer Zeit</i> , 2016, 47, 91-95.	0.0	0
9	Modeling size controlled nanoparticle precipitation with the co-solvency method by spinodal decomposition. <i>Soft Matter</i> , 2016, 12, 7231-7240.	2.7	19
10	Integrated DNA and RNA extraction and purification on an automated microfluidic cassette from bacterial and viral pathogens causing community-acquired lower respiratory tract infections. <i>Lab on A Chip</i> , 2014, 14, 1519-1526.	6.0	32
11	Fast nucleic acid amplification for integration in point-of-care applications. <i>Electrophoresis</i> , 2012, 33, 3222-3228.	2.4	20
12	Automated DNA-preparation system for bacteria out of air sampler liquids. , 2012, , .		0
13	Towards a "Sample-In, Answer-Out" Point-of-Care Platform for Nucleic Acid Extraction and Amplification: Using an HPV E6/E7 mRNA Model System. <i>Journal of Oncology</i> , 2012, 2012, 1-12.	1.3	24
14	Integrated microfluidic platform for the electrochemical detection of breast cancer markers in patient serum samples. <i>Lab on A Chip</i> , 2011, 11, 625-631.	6.0	67
15	Numerical Study of Micromixers for Stopped Flow. , 2011, , .		0
16	On-chip analysis of respiratory viruses from nasopharyngeal samples. <i>Biomedical Microdevices</i> , 2011, 13, 819-827.	2.8	21
17	Compact, cost-efficient microfluidics-based stopped-flow device. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1117-1125.	3.7	18
18	Automated microsystem for electrochemical detection of cancer markers. <i>Electrophoresis</i> , 2011, 32, 926-930.	2.4	30

#	ARTICLE	IF	CITATIONS
19	Justification of rapid prototyping in the development cycle of thermoplastic-based lab-on-a-chip. <i>Electrophoresis</i> , 2011, 32, 3115-3120.	2.4	0
20	From sample-to-answer: integrated genotyping and immunological analysis microfluidic platforms for the diagnostic and treatment of coeliac disease. , 2011, , .		1
21	New Lab-on-a-Chip System for Infectious Disease Analysis. , 2010, , .		0
22	Development of an integrated microsystem for the multiplexed detection of breast cancer markers in serum using electrochemical immunosensors. , 2010, , .		0
23	Amperometric Immunosensor for Carcinoembryonic Antigen in Colon Cancer Samples Based on Monolayers of Dendritic Bipodal Scaffolds. <i>Analytical Chemistry</i> , 2010, 82, 1712-1719.	6.5	92
24	Microsystem for Isolation of Fetal DNA from Maternal Plasma by Preparative Size Separation. <i>Clinical Chemistry</i> , 2009, 55, 2144-2152.	3.2	30
25	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. <i>Electrophoresis</i> , 2009, 30, 3398-3405.	2.4	45
26	Modelling immunomagnetic cell capture in CFD. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 205-216.	2.2	27
27	Microsystem for Field-Amplified Electrokinetic Trapping Preconcentration of DNA at Poly(ethylene Terephthalate) Overlaid with a Microfluidic Channel. <i>Lab on a Chip</i> , 2009, 9, 3399.	6.5	17
28	Hands-free sample preparation platform for nucleic acid analysis. <i>Lab on A Chip</i> , 2009, 9, 3399.	6.0	24
29	Microfluorimeter with disposable polymer chip for detection of coeliac disease toxic gliadin. <i>Lab on A Chip</i> , 2009, 9, 3535.	6.0	13
30	SmartHEALTH: a microfluidic multisensor platform for POC cancer diagnostics. , 2009, , .		1
31	Modelling Immunomagnetic Cell Capture in CFD. , 2008, , .		3
32	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
33	The MicroActive project: automatic detection of disease-related molecular cell activity. , 2007, , .		0
34	Electrophoretic partitioning of proteins in two-phase microflows. <i>Lab on A Chip</i> , 2007, 7, 98-102.	6.0	68
35	Nucleic Acid Amplification in Microsystems. , 2007, , 523-567.		2
36	Diode laser welding for packaging of transparent micro-structured polymer chips. , 2006, , .		4

#	ARTICLE	IF	CITATIONS
37	Water analysis in a lab-on-a-chip system. , 2006, 6112, 12.		0
38	A $\frac{1}{4}$ -Fluidic Mixing Network. Chemical Engineering and Technology, 2005, 28, 362-366.	1.5	9
39	Passive micromixers for applications in the microreactor and μ TAS fields. Microfluidics and Nanofluidics, 2005, 1, 108-118.	2.2	154
40	Automated chip-based device for simple and fast nucleic acid amplification. Expert Review of Molecular Diagnostics, 2005, 5, 613-620.	3.1	37
41	Parallel nanoliter detection of cancer markers using polymer microchips. Lab on A Chip, 2005, 5, 416-420.	6.0	91
42	Passive Micro Mixers for Applications in the Micro Reactor and μ TAS Field. , 2004, , 45.		7
43	Design Rules for Electroforming in the LIGA Process. Journal of the Electrochemical Society, 2004, 151, D39.	2.9	10
44	Helical flows and chaotic mixing in curved micro channels. AIChE Journal, 2004, 50, 2297-2305.	3.6	300
45	Steering of Liquid Mixing Speed in Interdigital Micro Mixers“ From Very Fast to Deliberately Slow Mixing. Chemical Engineering and Technology, 2004, 27, 340-345.	1.5	65
46	Optimization of interdigital micromixers via analytical modeling“ exemplified with the SuperFocus mixer. Chemical Engineering Journal, 2004, 101, 403-407.	12.7	30
47	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
48	Utilization of Micromixers for Extraction Processes. Chemical Engineering and Technology, 2001, 24, 11-17.	1.5	141
49	<title>Micromachined flow-handling components: micropumps</title>. , 1999, , .		4
50	Floquet theory for short laser pulses. European Physical Journal D, 1999, 5, 119-134.	1.3	99
51	Perturbative and nonperturbative processes in adiabatic population transfer. European Physical Journal D, 1998, 3, 73-86.	1.3	30
52	Exploring a Metal-Insulator Transition with Ultracold Atoms in Standing Light Waves?. Physical Review Letters, 1997, 78, 2932-2935.	7.8	53
53	Phase diagram for a modified Harper model. Physical Review B, 1997, 55, R14693-R14696.	3.2	7
54	Ultracold atoms in modulated standing light waves. Chemical Physics, 1997, 217, 201-219.	1.9	33

#	ARTICLE	IF	CITATIONS
55	Anderson localization in an ac-driven two-band model. Journal of Physics Condensed Matter, 1996, 8, 1193-1206.	1.8	14
56	Time scale of quasifission from giant dipole resonance $\hat{\Gamma}^3$ -ray yield. Physical Review C, 1995, 51, 2218-2221.	2.9	6