

Elisabeth Verpoorte

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,337
citations

279778

23
h-index

345203

36
g-index

37
all docs

37
docs citations

37
times ranked

3048
citing authors

#	ARTICLE	IF	CITATIONS
1	A guide to the organ-on-a-chip. Nature Reviews Methods Primers, 2022, 2, .	21.2	247
2	Focus. Lab on A Chip, 2003, 3, 60N.	6.0	232
3	Comparison of Biocompatibility and Adsorption Properties of Different Plastics for Advanced Microfluidic Cell and Tissue Culture Models. Analytical Chemistry, 2012, 84, 3938-3944.	6.5	212
4	A microfluidic approach for in vitro assessment of interorgan interactions in drug metabolism using intestinal and liver slices. Lab on A Chip, 2010, 10, 2778.	6.0	184
5	Surface Biopassivation of Replicated Poly(dimethylsiloxane) Microfluidic Channels and Application to Heterogeneous Immunoreaction with On-Chip Fluorescence Detection. Analytical Chemistry, 2001, 73, 4181-4189.	6.5	168
6	Fused Deposition Modeling 3D Printing for (Bio)analytical Device Fabrication: Procedures, Materials, and Applications. Analytical Chemistry, 2017, 89, 7053-7061.	6.5	162
7	Focus. Lab on A Chip, 2003, 3, 42N.	6.0	140
8	Microfluidic biochip for the perfusion of precision-cut rat liver slices for metabolism and toxicology studies. Biotechnology and Bioengineering, 2010, 105, 184-194.	3.3	118
9	Microfluidic devices for in vitro studies on liver drug metabolism and toxicity. Integrative Biology (United Kingdom), 2011, 3, 509.	1.3	104
10	Improvement of Recovery and Repeatability in Liquid Chromatography-Mass Spectrometry Analysis of Peptides. Journal of Proteome Research, 2007, 6, 781-791.	3.7	83
11	Implementing oxygen control in chip-based cell and tissue culture systems. Lab on A Chip, 2016, 16, 3394-3414.	6.0	79
12	3D-Printed Paper Spray Ionization Cartridge with Fast Wetting and Continuous Solvent Supply Features. Analytical Chemistry, 2014, 86, 11657-11665.	6.5	71
13	Reinventing (Bio)chemical Analysis with Paper. Analytical Chemistry, 2018, 90, 13815-13825.	6.5	58
14	Digestion-on-a-chip: a continuous-flow modular microsystem recreating enzymatic digestion in the gastrointestinal tract. Lab on A Chip, 2019, 19, 1599-1609.	6.0	42
15	On-line HPLC Analysis System for Metabolism and Inhibition Studies in Precision-Cut Liver Slices. Analytical Chemistry, 2011, 83, 84-91.	6.5	38
16	Hydrogel embedding of precision-cut liver slices in a microfluidic device improves drug metabolic activity. Biotechnology and Bioengineering, 2011, 108, 1404-1412.	3.3	38
17	Fast, high-efficiency peptide separations on a 50-µm reversed-phase silica monolith in a nanoLC-MS set-up. Journal of Chromatography A, 2006, 1120, 165-172.	3.7	31
18	An Enzymatic Microreactor Based on Chaotic Micromixing for Enhanced Amperometric Detection in a Continuous Glucose Monitoring Application. Analytical Chemistry, 2010, 82, 6756-6763.	6.5	30

#	ARTICLE	IF	CITATIONS
19	Multiple flow profiles for two-phase flow in single microfluidic channels through site-selective channel coating. <i>Lab on A Chip</i> , 2011, 11, 2030.	6.0	29
20	Microfluidics Enables Small-Scale Tissue-Based Drug Metabolism Studies with Scarce Human Tissue. <i>Journal of the Association for Laboratory Automation</i> , 2011, 16, 468-476.	2.8	27
21	Water-based alkyl ketene dimer ink for user-friendly patterning in paper microfluidics. <i>Analytica Chimica Acta</i> , 2018, 1000, 180-190.	5.4	27
22	Solvent-dependent on/off valving using selectively permeable barriers in paper microfluidics. <i>Lab on A Chip</i> , 2016, 16, 1013-1021.	6.0	26
23	3D-Printed Paper Spray Ionization Cartridge with Integrated Desolvation Feature and Ion Optics. <i>Analytical Chemistry</i> , 2017, 89, 11419-11426.	6.5	25
24	Development of small-volume, microfluidic chaotic mixers for future application in two-dimensional liquid chromatography. <i>RSC Advances</i> , 2017, 7, 9090-9099.	3.6	24
25	A versatile, compartmentalised gut-on-a-chip system for pharmacological and toxicological analyses. <i>Scientific Reports</i> , 2021, 11, 4920.	3.3	21
26	Stabilization of two-phase octanol/water flows inside poly(dimethylsiloxane) microchannels using polymer coatings. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1376-1383.	3.7	19
27	Restricted-access material-based high-molecular-weight protein depletion coupled on-line with nano-liquid chromatography-mass spectrometry for proteomics applications. <i>Journal of Chromatography A</i> , 2007, 1149, 169-177.	3.7	17
28	Leveraging 3D printing to enhance mass spectrometry: A review. <i>Analytica Chimica Acta</i> , 2021, 1166, 338332.	5.4	17
29	Bisecting Microfluidic Channels with Metallic Nanowires Fabricated by Nanoskiving. <i>ACS Nano</i> , 2016, 10, 2852-2859.	14.6	13
30	Development and characterization of a microfluidic glucose sensing system based on an enzymatic microreactor and chemiluminescence detection. <i>Science China Chemistry</i> , 2012, 55, 515-523.	8.2	12
31	Controlled, synchronized actuation of microdroplets by gravity in a superhydrophobic, 3D-printed device. <i>Analytica Chimica Acta</i> , 2017, 988, 50-57.	5.4	11
32	Visualization of Bacterial Colonization and Cellular Layers in a Gut-on-a-Chip System Using Optical Coherence Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 1211-1219.	0.4	11
33	Countercurrent liquid-liquid extraction on paper. <i>Lab on A Chip</i> , 2017, 17, 3401-3404.	6.0	7
34	In situ monitoring of polymer redox states by resonance Raman spectroscopy and its applications in polymer modified microfluidic channels. <i>Analytical Methods</i> , 2012, 4, 73-79.	2.7	6
35	Electrochemical sensing with single nanoskived gold nanowires bisecting a microchannel. <i>Lab on A Chip</i> , 2018, 18, 2913-2916.	6.0	4
36	Enhanced passive mixing for paper microfluidics. <i>RSC Advances</i> , 2021, 11, 25677-25685.	3.6	4

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37	MicroTAS 2011: Microfluidics in seattle. Science China Chemistry, 2012, 55, 550-551.	8.2	0