

Tiina Sikanen

List of Publications by Year in descending order

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56
papers

1,640
citations

304743

22
h-index

302126

39
g-index

58
all docs

58
docs citations

58
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytochrome P450 Inhibition by Antimicrobials and Their Mixtures in Rainbow Trout Liver Microsomes In Vitro. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 663-676.	4.3	9
2	Microfluidic oxygen tolerability screening of nanocarriers for triplet fusion photon upconversion. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4871-4877.	5.5	4
3	Drug glucuronidation assays on human liver microsomes immobilized on microfluidic flow-through reactors. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 158, 105677.	4.0	2
4	Inkjet-printed flexible silver electrodes on thiol-enes. <i>Sensors and Actuators B: Chemical</i> , 2021, 336, 129727.	7.8	8
5	The material-enabled oxygen control in thiol-ene microfluidic channels and its feasibility for subcellular drug metabolism assays under hypoxia <i>in vitro</i> . <i>Lab on A Chip</i> , 2021, 21, 1820-1831.	6.0	8
6	PeptiCHIP: A Microfluidic Platform for Tumor Antigen Landscape Identification. <i>ACS Nano</i> , 2021, 15, 15992-16010.	14.6	17
7	Digital Microfluidics-Enabled Analysis of Individual Variation in Liver Cytochrome P450 Activity. <i>Analytical Chemistry</i> , 2020, 92, 14693-14701.	6.5	9
8	A Digital- μ Channel Microfluidic Interface via Inkjet Printing of Silver and UV Curing of Thiol-Enes. <i>Advanced Materials Technologies</i> , 2020, 5, 2000451.	5.8	16
9	Cell adhesion and proliferation on common 3D printing materials used in stereolithography of microfluidic devices. <i>Lab on A Chip</i> , 2020, 20, 2372-2382.	6.0	49
10	Simultaneous Culturing of Cell Monolayers and Spheroids on a Single Microfluidic Device for Bridging the Gap between 2D and 3D Cell Assays in Drug Research. <i>Advanced Functional Materials</i> , 2020, 30, 2000479.	14.9	29
11	Comparison of liquid chromatography-mass spectrometry and direct infusion microchip electrospray ionization mass spectrometry in global metabolomics of cell samples. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 138, 104991.	4.0	8
12	Immobilization of proteolytic enzymes on replica-molded thiol-ene micropillar reactors via thiol-gold interaction. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2339-2349.	3.7	22
13	Rapid analysis of intraperitoneally administered morphine in mouse plasma and brain by microchip electrophoresis-electrochemical detection. <i>Scientific Reports</i> , 2019, 9, 3311.	3.3	13
14	Metallization of Organically Modified Ceramics for Microfluidic Electrochemical Assays. <i>Micromachines</i> , 2019, 10, 605.	2.9	7
15	Overcoming the Pitfalls of Cytochrome P450 Immobilization through the Use of Fusogenic Liposomes. <i>Advanced Biology</i> , 2019, 3, 1800245.	3.0	6
16	Interfacing Digital Microfluidics with Ambient Mass Spectrometry Using SU-8 as Dielectric Layer. <i>Micromachines</i> , 2018, 9, 649.	2.9	9
17	Digital microfluidic immobilized cytochrome P450 reactors with integrated inkjet-printed microheaters for droplet-based drug metabolism research. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6677-6687.	3.7	14
18	Microfluidic Lateral Flow Cytochrome P450 Assay on a Novel Printed Functionalized Calcium Carbonate-Based Platform for Rapid Screening of Human Xenobiotic Metabolism. <i>Advanced Functional Materials</i> , 2018, 28, 1802793.	14.9	15

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19	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. <i>Nano Letters</i> , 2017, 17, 606-614.	9.1	123
20	Thiol-ene micropillar array electrospray ionization platform for zeptomole level bioanalysis. <i>Analyst</i> , 2017, 142, 2552-2557.	3.5	5
21	Fabrication of concave micromirrors for single cell imaging via controlled over-exposure of organically modified ceramics in single step lithography. <i>Biomicrofluidics</i> , 2017, 11, 034118.	2.4	6
22	The impact of porous silicon nanoparticles on human cytochrome P450 metabolism in human liver microsomes in vitro. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 124-132.	4.0	11
23	Aqueous and non-aqueous microchip electrophoresis with on-chip electrospray ionization mass spectrometry on replica-molded thiol-ene microfluidic devices. <i>Journal of Chromatography A</i> , 2017, 1496, 150-156.	3.7	18
24	TiO ₂ Photocatalysis-DESI-MS Rotating Array Platform for High-Throughput Investigation of Oxidation Reactions. <i>Analytical Chemistry</i> , 2017, 89, 11214-11218.	6.5	7
25	Inkjet printed silver electrodes on macroporous paper for a paper-based isoelectric focusing device. <i>Biomicrofluidics</i> , 2016, 10, 064120.	2.4	18
26	Oxidation of Tyrosine-Phosphopeptides by Titanium Dioxide Photocatalysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 7452-7455.	13.7	23
27	Comparison of TiO ₂ photocatalysis, electrochemically assisted Fenton reaction and direct electrochemistry for simulation of phase I metabolism reactions of drugs. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 83, 36-44.	4.0	29
28	Rapid separation of phosphopeptides by microchip electrophoresis-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1440, 249-254.	3.7	15
29	A Versatile and Robust Microfluidic Platform Toward High Throughput Synthesis of Homogeneous Nanoparticles with Tunable Properties. <i>Advanced Materials</i> , 2015, 27, 2298-2304.	21.0	203
30	Interfacing microchip isoelectric focusing with on-chip electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1398, 121-126.	3.7	13
31	Simple Microfluidic Approach to Fabricate Monodisperse Hollow Microparticles for Multidrug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14822-14832.	8.0	66
32	Thiol-ene microfluidic devices for microchip electrophoresis: Effects of curing conditions and monomer composition on surface properties. <i>Journal of Chromatography A</i> , 2015, 1426, 233-240.	3.7	21
33	Laser Direct Writing of Thick Hybrid Polymers for Microfluidic Chips. <i>Micromachines</i> , 2014, 5, 472-485.	2.9	21
34	Imitation of phase I oxidative metabolism of anabolic steroids by titanium dioxide photocatalysis. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 65, 45-55.	4.0	15
35	Fabrication and bonding of thiol-ene-based microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 037002.	2.6	40
36	Microchip capillary electrophoresis-electrospray ionization-mass spectrometry of intact proteins using uncoated Ormocomp microchips. <i>Analytica Chimica Acta</i> , 2012, 711, 69-76.	5.4	42

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37	Rapid and sensitive drug metabolism studies by SU-8 microchip capillary electrophoresis-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 739-745.	3.7	48
38	Dynamic coating of SU-8 microfluidic chips with phospholipid disks. <i>Electrophoresis</i> , 2010, 31, 2566-2574.	2.4	11
39	Feasibility of SU-8-based capillary electrophoresis-electrospray ionization mass spectrometry microfluidic chips for the analysis of human cell lysates. <i>Electrophoresis</i> , 2010, 31, 3745-3753.	2.4	27
40	Implementation of droplet-membrane-droplet liquid-phase microextraction under stagnant conditions for lab-on-a-chip applications. <i>Analytica Chimica Acta</i> , 2010, 658, 133-140.	5.4	47
41	Nanoperforated silicon membranes fabricated by UV-nanoimprint lithography, deep reactive ion etching and atomic layer deposition. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 077001.	2.6	19
42	Hybrid Ceramic Polymers: New, Nonbiofouling, and Optically Transparent Materials for Microfluidics. <i>Analytical Chemistry</i> , 2010, 82, 3874-3882.	6.5	30
43	Microchip technology in mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2009, 29, n/a-n/a.	5.4	94
44	Temperature modeling and measurement of an electrokinetic separation chip. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 479-491.	2.2	12
45	Analytical characterization of microfabricated SU-8 emitters for electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 726-735.	1.6	18
46	Fabrication and fluidic characterization of silicon micropillar array electrospray ionization chip. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 380-387.	7.8	44
47	Novel hybrid material for microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 397-403.	7.8	24
48	Microchip-based CE-ESI/MS analysis of biological molecules. <i>European Journal of Pharmaceutical Sciences</i> , 2008, 34, S37.	4.0	0
49	High Sensitivity Micropillar Electrospray Ionization Chip Fabricated of Silicon. , 2007, , .		1
50	Performance of SU-8 Microchips as Separation Devices and Comparison with Glass Microchips. <i>Analytical Chemistry</i> , 2007, 79, 6255-6263.	6.5	36
51	Fully Microfabricated and Integrated SU-8-Based Capillary Electrophoresis-Electrospray Ionization Microchips for Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 9135-9144.	6.5	56
52	Silicon micropillar array electrospray chip for drug and biomolecule analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3677-3682.	1.5	43
53	Re-usable multi-inlet PDMS fluidic connector. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 552-557.	7.8	50
54	Fabrication of enclosed SU-8 tips for electrospray ionization-mass spectrometry. <i>Electrophoresis</i> , 2005, 26, 4691-4702.	2.4	42

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55	Fabrication of porous membrane filter from p-type silicon. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1624-1628.	1.8	19
56	Characterization of SU-8 for electrokinetic microfluidic applications. Lab on A Chip, 2005, 5, 888.	6.0	93