Tiina Sikanen

List of Publications by Year
in descending order

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56	1,640	304743	302126
papers	citations	22 h-index	39 g-index

58	58	58	2175
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Versatile and Robust Microfluidic Platform Toward High Throughput Synthesis of Homogeneous Nanoparticles with Tunable Properties. Advanced Materials, 2015, 27, 2298-2304.	21.0	203
2	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. Nano Letters, 2017, 17, 606-614.	9.1	123
3	Microchip technology in mass spectrometry. Mass Spectrometry Reviews, 2009, 29, n/a-n/a.	5.4	94
4	Characterization of SU-8 for electrokinetic microfluidic applications. Lab on A Chip, 2005, 5, 888.	6.0	93
5	Simple Microfluidic Approach to Fabricate Monodisperse Hollow Microparticles for Multidrug Delivery. ACS Applied Materials & Interfaces, 2015, 7, 14822-14832.	8.0	66
6	Fully Microfabricated and Integrated SU-8-Based Capillary Electrophoresis-Electrospray Ionization Microchips for Mass Spectrometry. Analytical Chemistry, 2007, 79, 9135-9144.	6.5	56
7	Re-usable multi-inlet PDMS fluidic connector. Sensors and Actuators B: Chemical, 2006, 114, 552-557.	7.8	50
8	Cell adhesion and proliferation on common 3D printing materials used in stereolithography of microfluidic devices. Lab on A Chip, 2020, 20, 2372-2382.	6.0	49
9	Rapid and sensitive drug metabolism studies by SU-8 microchip capillary electrophoresis-electrospray ionization mass spectrometry. Journal of Chromatography A, 2011, 1218, 739-745.	3.7	48
10	Implementation of droplet-membrane-droplet liquid-phase microextraction under stagnant conditions for lab-on-a-chip applications. Analytica Chimica Acta, 2010, 658, 133-140.	5.4	47
11	Fabrication and fluidic characterization of silicon micropillar array electrospray ionization chip. Sensors and Actuators B: Chemical, 2008, 132, 380-387.	7.8	44
12	Silicon micropillar array electrospray chip for drug and biomolecule analysis. Rapid Communications in Mass Spectrometry, 2007, 21, 3677-3682.	1.5	43
13	Fabrication of enclosed SU-8 tips for electrospray ionization-mass spectrometry. Electrophoresis, 2005, 26, 4691-4702.	2.4	42
14	Microchip capillary electrophoresisâ€“electrospray ionizationâ€“mass spectrometry of intact proteins using uncoated Ormocomp microchips. Analytica Chimica Acta, 2012, 711, 69-76.	5.4	42
15	Fabrication and bonding of thiol-ene-based microfluidic devices. Journal of Micromechanics and Microengineering, 2013, 23, 037002.	2.6	40
16	Performance of SU-8 Microchips as Separation Devices and Comparison with Glass Microchips. Analytical Chemistry, 2007, 79, 6255-6263.	6.5	36
17	Hybrid Ceramic Polymers: New, Nonbiofouling, and Optically Transparent Materials for Microfluidics. Analytical Chemistry, 2010, 82, 3874-3882.	6.5	30
18	Comparison of TiO2 photocatalysis, electrochemically assisted Fenton reaction and direct electrochemistry for simulation of phase I metabolism reactions of drugs. European Journal of Pharmaceutical Sciences, 2016, 83, 36-44.	4.0	29

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19	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. Advanced Functional Materials, 2020, 30, 2000479.	14.9	29
20	Feasibility of SUâ€8â€based capillary electrophoresisâ€electrospray ionization mass spectrometry microfluidic chips for the analysis of human cell lysates. Electrophoresis, 2010, 31, 3745-3753.	2.4	27
21	Novel hybrid material for microfluidic devices. Sensors and Actuators B: Chemical, 2008, 132, 397-403.	7.8	24
22	Oxidation of Tyrosine-Phosphopeptides by Titanium Dioxide Photocatalysis. Journal of the American Chemical Society, 2016, 138, 7452-7455.	13.7	23
23	Immobilization of proteolytic enzymes on replica-molded thiol-ene micropillar reactors via thiol-gold interaction. Analytical and Bioanalytical Chemistry, 2019, 411, 2339-2349.	3.7	22
24	Laser Direct Writing of Thick Hybrid Polymers for Microfluidic Chips. Micromachines, 2014, 5, 472-485.	2.9	21
25	Thiol-ene microfluidic devices for microchip electrophoresis: Effects of curing conditions and monomer composition on surface properties. Journal of Chromatography A, 2015, 1426, 233-240.	3.7	21
26	Fabrication of porous membrane filter from p-type silicon. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1624-1628.	1.8	19
27	Nanoperforated silicon membranes fabricated by UV-nanoimprint lithography, deep reactive ion etching and atomic layer deposition. Journal of Micromechanics and Microengineering, 2010, 20, 077001.	2.6	19
28	Analytical characterization of microfabricated SUâ€8 emitters for electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2008, 43, 726-735.	1.6	18
29	Inkjet printed silver electrodes on macroporous paper for a paper-based isoelectric focusing device. Biomicrofluidics, 2016, 10, 064120.	2.4	18
30	Aqueous and non-aqueous microchip electrophoresis with on-chip electrospray ionization mass spectrometry on replica-molded thiol-ene microfluidic devices. Journal of Chromatography A, 2017, 1496, 150-156.	3.7	18
31	PeptiCHIP: A Microfluidic Platform for Tumor Antigen Landscape Identification. ACS Nano, 2021, 15, 15992-16010.	14.6	17
32	A Digitalâ€toâ€Channel Microfluidic Interface via Inkjet Printing of Silver and UV Curing of Thiolâ€“Enes. Advanced Materials Technologies, 2020, 5, 2000451.	5.8	16
33	Imitation of phase I oxidative metabolism of anabolic steroids by titanium dioxide photocatalysis. European Journal of Pharmaceutical Sciences, 2014, 65, 45-55.	4.0	15
34	Rapid separation of phosphopeptides by microchip electrophoresisâ€“electrospray ionization mass spectrometry. Journal of Chromatography A, 2016, 1440, 249-254.	3.7	15
35	Microfluidic Lateral Flow Cytochrome P450 Assay on a Novel Printed Functionalized Calcium Carbonateâ€Based Platform for Rapid Screening of Human Xenobiotic Metabolism. Advanced Functional Materials, 2018, 28, 1802793.	14.9	15
36	Digital microfluidic immobilized cytochrome P450 reactors with integrated inkjet-printed microheaters for droplet-based drug metabolism research. Analytical and Bioanalytical Chemistry, 2018, 410, 6677-6687.	3.7	14

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37	Interfacing microchip isoelectric focusing with on-chip electrospray ionization mass spectrometry. Journal of Chromatography A, 2015, 1398, 121-126.	3.7	13
38	Rapid analysis of intraperitoneally administered morphine in mouse plasma and brain by microchip electrophoresis-electrochemical detection. Scientific Reports, 2019, 9, 3311.	3.3	13
39	Temperature modeling and measurement of an electrokinetic separation chip. Microfluidics and Nanofluidics, 2008, 5, 479-491.	2.2	12
40	Dynamic coating of SUâ€8 microfluidic chips with phospholipid disks. Electrophoresis, 2010, 31, 2566-2574.	2.4	11
41	The impact of porous silicon nanoparticles on human cytochrome P450 metabolism in human liver microsomes in vitro. European Journal of Pharmaceutical Sciences, 2017, 104, 124-132.	4.0	11
42	Interfacing Digital Microfluidics with Ambient Mass Spectrometry Using SU-8 as Dielectric Layer. Micromachines, 2018, 9, 649.	2.9	9
43	Digital Microfluidics-Enabled Analysis of Individual Variation in Liver Cytochrome P450 Activity. Analytical Chemistry, 2020, 92, 14693-14701.	6.5	9
44	Cytochrome P450 Inhibition by Antimicrobials and Their Mixtures in Rainbow Trout Liver Microsomes In Vitro. Environmental Toxicology and Chemistry, 2022, 41, 663-676.	4.3	9
45	Comparison of liquid chromatography-mass spectrometry and direct infusion microchip electrospray ionization mass spectrometry in global metabolomics of cell samples. European Journal of Pharmaceutical Sciences, 2019, 138, 104991.	4.0	8
46	Inkjet-printed flexible silver electrodes on thiol-enes. Sensors and Actuators B: Chemical, 2021, 336, 129727.	7.8	8
47	The material-enabled oxygen control in thiol-ene microfluidic channels and its feasibility for subcellular drug metabolism assays under hypoxia in vitro. Lab on A Chip, 2021, 21, 1820-1831.	6.0	8
48	TiO₂ Photocatalysisâ€“DESI-MS Rotating Array Platform for High-Throughput Investigation of Oxidation Reactions. Analytical Chemistry, 2017, 89, 11214-11218.	6.5	7
49	Metallization of Organically Modified Ceramics for Microfluidic Electrochemical Assays. Micromachines, 2019, 10, 605.	2.9	7
50	Fabrication of concave micromirrors for single cell imaging via controlled over-exposure of organically modified ceramics in single step lithography. Biomicrofluidics, 2017, 11, 034118.	2.4	6
51	Overcoming the Pitfalls of Cytochrome P450 Immobilization through the Use of Fusogenic Liposomes. Advanced Biology, 2019, 3, 1800245.	3.0	6
52	Thiolâ€“ene micropillar array electrospray ionization platform for zeptomole level bioanalysis. Analyst, The, 2017, 142, 2552-2557.	3.5	5
53	Microfluidic oxygen tolerability screening of nanocarriers for triplet fusion photon upconversion. Journal of Materials Chemistry C, 2022, 10, 4871-4877.	5.5	4
54	Drug glucuronidation assays on human liver microsomes immobilized on microfluidic flow-through reactors. European Journal of Pharmaceutical Sciences, 2021, 158, 105677.	4.0	2

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55	High Sensitivity Micropillar Electrosprayionization Chip Fabricated of Silicon. , 2007, , .		1
56	Microchip-based CE-ESI/MS analysis of biological molecules. European Journal of Pharmaceutical Sciences, 2008, 34, S37.	4.0	0