

Zheng Xu

List of Publications by Year in descending order

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34
papers

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840776

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docs citations

34
times ranked

439
citing authors

#	ARTICLE	IF	CITATIONS
1	Parallel Microdispensing Method of High-Viscous Liquid Based on Electrostatic Force. <i>Micromachines</i> , 2022, 13, 545.	2.9	0
2	Breakup mechanism of the electrically induced conical liquid bridge. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
3	A Generic Algorithm for Position-Orientation Estimation with Microscopic Vision. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, , 1-1.	4.7	1
4	Loading a High-Viscous Droplet via the Cone-Shaped Liquid Bridge Induced by an Electrostatic Force. <i>Langmuir</i> , 2021, 37, 2334-2340.	3.5	8
5	Droplet-patterning of viscous adhesive assisted with microfluidic technique. <i>International Journal of Adhesion and Adhesives</i> , 2020, 98, 102518.	2.9	0
6	Automatic Sorting System for Rigid Piezoelectric Transducer Wafers Used in Displacement Adjustment. <i>Micromachines</i> , 2020, 11, 915.	2.9	2
7	Drop-on-Demand Electrohydrodynamic Jet Printing of Graphene and Its Composite Microelectrode for High Performance Electrochemical Sensing. <i>Journal of the Electrochemical Society</i> , 2020, 167, 107508.	2.9	21
8	Nano-electrokinetic ion concentration in the ion enrichment zone. <i>Microsystem Technologies</i> , 2019, 25, 711-717.	2.0	5
9	Patterning sub-30 μm liquid metal wires on PDMS substrates via stencil lithography and pre-stretching. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 095001.	2.6	18
10	Non-enzymatic electrochemical detection of uric acid with electrodeposited Nafion film. <i>Journal of Electroanalytical Chemistry</i> , 2019, 841, 129-134.	3.8	27
11	Squeezing Dynamic Mechanism of High-Viscosity Droplet and its Application for Adhesive Dispensing in Sub-Nanoliter Resolution. <i>Micromachines</i> , 2019, 10, 728.	2.9	9
12	Improvement of electrochemical performance of screen-printed carbon electrodes by UV/ozone modification. <i>Talanta</i> , 2019, 192, 40-45.	5.5	23
13	Direct casting of a PDMS substrate holder from a structured polymer film for lab-on-a-foil bonding. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 570-576.	7.8	5
14	Fabrication of electrochemical carbon-based microelectrodes using electrohydrodynamic jet printing technique. <i>Microsystem Technologies</i> , 2018, 24, 1207-1212.	2.0	7
15	Influence of initial distance between needle tip and substrate on contact dispensing of high-viscosity adhesive. <i>International Journal of Adhesion and Adhesives</i> , 2018, 85, 23-28.	2.9	13
16	Electrochemical determination of glutamic pyruvic transaminase using a microfluidic chip. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	3
17	Electrokinetic ion breakdown in a nanochannel. <i>AIP Advances</i> , 2016, 6, 075025.	1.3	2
18	Electrokinetic ion transport in confined micro-nanochannel. <i>Electrophoresis</i> , 2016, 37, 769-774.	2.4	9

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19	Electrokinetic concentrating with a nanofluidic device for magnetic beads-based antigen-antibody immunoassay. <i>Microsystem Technologies</i> , 2016, 22, 283-286.	2.0	2
20	Research on impact behaviour and silicon insert fracture phenomenon in microinjection moulding. <i>AIP Advances</i> , 2015, 5, 041317.	1.3	4
21	Fabrication of PMMA nanofluidic electrochemical chips with integrated microelectrodes. <i>Biosensors and Bioelectronics</i> , 2015, 72, 288-293.	10.1	16
22	Cyclic voltammetric determination of glutamic-pyruvic transaminase activity based on transdeamination. <i>Analytical Methods</i> , 2015, 7, 9421-9425.	2.7	3
23	Ion-enrichment and ion-depletion of nanochannels based on electrochemical potential in a micro-nanofluidic chip. <i>Microsystem Technologies</i> , 2014, 20, 35-39.	2.0	6
24	A Novel Method for Fabrication of Micro-Nanofluidic Devices and Its Application in Trace Enrichment. <i>Chinese Journal of Analytical Chemistry</i> , 2014, 42, 166-172.	1.7	5
25	Fabrication of a three-layer SU-8 mould with inverted T-shaped cavities based on a sacrificial photoresist layer technique. <i>Biomedical Microdevices</i> , 2014, 16, 655-660.	2.8	7
26	Modeling of capacitively coupled contactless conductivity detection on microfluidic chips. <i>Microsystem Technologies</i> , 2013, 19, 1991-1996.	2.0	3
27	Hot embossing of polymer nanochannels using PMMA moulds. <i>Microsystem Technologies</i> , 2013, 19, 629-634.	2.0	17
28	An effective PDMS microfluidic chip for chemiluminescence detection of cobalt (II) in water. <i>Microsystem Technologies</i> , 2013, 19, 99-103.	2.0	67
29	Observation of the induced pressure in a hybrid micro/nano-channel. <i>Journal of Hydrodynamics</i> , 2013, 25, 274-279.	3.2	3
30	Nanopore density effect of polyacrylamide gel plug on electrokinetic ion enrichment in a micro-nanofluidic chip. <i>Applied Physics Letters</i> , 2013, 103, 043103.	3.3	14
31	Fabrication of planar nanofluidic channels in thermoplastic polymers by O ₂ plasma etching. <i>Micro and Nano Letters</i> , 2012, 7, 159.	1.3	12
32	Flexible microassembly methods for micro/nanofluidic chips with an inverted microscope. <i>Microelectronic Engineering</i> , 2012, 97, 1-7.	2.4	6
33	Effects of electrophoresis and electroosmotic flow on ion enrichment in micro-nanofluidic preconcentrator. <i>Microsystem Technologies</i> , 2012, 18, 97-102.	2.0	11
34	Research on forming and application of U-form glass micro-nanofluidic chip with long nanochannels. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 423-429.	2.2	17