Zheng Xu

List of Publications by Year
in descending order

34 papers	349 citations	840776 11 h-index	888059 17 g-index
34 all docs	34 docs citations	34 times ranked	439 citing authors

#	Article	IF	Citations
1	An effective PDMS microfluidic chip for chemiluminescence detection of cobalt (II) in water. Microsystem Technologies, 2013, 19, 99-103.	2.0	67
2	Non-enzymatic electrochemical detection of uric acid with electrodeposited Nafion film. Journal of Electroanalytical Chemistry, 2019, 841, 129-134.	3.8	27
3	Improvement of electrochemical performance of screen-printed carbon electrodes by UV/ozone modification. Talanta, 2019, 192, 40-45.	5.5	23
4	Drop-on-Demand Electrohydrodynamic Jet Printing of Graphene and Its Composite Microelectrode for High Performance Electrochemical Sensing. Journal of the Electrochemical Society, 2020, 167, 107508.	2.9	21
5	Patterning sub-30 Âµm liquid metal wires on PDMS substrates via stencil lithography and pre-stretching. Journal of Micromechanics and Microengineering, 2019, 29, 095001.	2.6	18
6	Research on forming and application of U-form glass micro-nanofluidic chip with long nanochannels. Microfluidics and Nanofluidics, 2009, 7, 423-429.	2.2	17
7	Hot embossing of polymer nanochannels using PMMA moulds. Microsystem Technologies, 2013, 19, 629-634.	2.0	17
8	Fabrication of PMMA nanofluidic electrochemical chips with integrated microelectrodes. Biosensors and Bioelectronics, 2015, 72, 288-293.	10.1	16
9	Nanopore density effect of polyacrylamide gel plug on electrokinetic ion enrichment in a micro-nanofluidic chip. Applied Physics Letters, 2013, 103, 043103.	3.3	14
10	Influence of initial distance between needle tip and substrate on contact dispensing of high-viscosity adhesive. International Journal of Adhesion and Adhesives, 2018, 85, 23-28.	2.9	13
11	Fabrication of planar nanofluidic channels in thermoplastic polymers by O2 plasma etching. Micro and Nano Letters, 2012, 7, 159.	1.3	12
12	Effects of electrophoresis and electroosmotic flow on ion enrichment in micro-nanofluidic preconcentrator. Microsystem Technologies, 2012, 18, 97-102.	2.0	11
13	Electrokinetic ion transport in confined microâ€nanochannel. Electrophoresis, 2016, 37, 769-774.	2.4	9
14	Squeezing Dynamic Mechanism of High-Viscosity Droplet and its Application for Adhesive Dispensing in Sub-Nanoliter Resolution. Micromachines, 2019, 10, 728.	2.9	9
15	Loading a High-Viscous Droplet via the Cone-Shaped Liquid Bridge Induced by an Electrostatic Force. Langmuir, 2021, 37, 2334-2340.	3.5	8
16	Fabrication of a three-layer SU-8 mould with inverted T-shaped cavities based on a sacrificial photoresist layer technique. Biomedical Microdevices, 2014, 16, 655-660.	2.8	7
17	Fabrication of electrochemical carbon-based microelectrodes using electrohydrodynamic jet printing technique. Microsystem Technologies, 2018, 24, 1207-1212.	2.0	7
18	Flexible microassembly methods for micro/nanofluidic chips with an inverted microscope. Microelectronic Engineering, 2012, 97, 1-7.	2.4	6

#	Article	IF	Citations
19	Ion-enrichment and ion-depletion of nanochannels based on electrochemical potential in a micro-nanofluidic chip. Microsystem Technologies, 2014, 20, 35-39.	2.0	6
20	A Novel Method for Fabrication of Micro-Nanofluidic Devices and Its Application in Trace Enrichment. Chinese Journal of Analytical Chemistry, 2014, 42, 166-172.	1.7	5
21	Direct casting of a PDMS substrate holder from a structured polymer film for lab-on-a-foil bonding. Sensors and Actuators B: Chemical, 2018, 266, 570-576.	7.8	5
22	Nano-electrokinetic ion concentration in the ion enrichment zone. Microsystem Technologies, 2019, 25, 711-717.	2.0	5
23	Research on impact behaviour and silicon insert fracture phenomenon in microinjection moulding. AIP Advances, 2015, 5, 041317.	1.3	4
24	Modeling of capacitively coupled contactless conductivity detection on microfluidic chips. Microsystem Technologies, 2013, 19, 1991-1996.	2.0	3
25	Observation of the induced pressure in a hybrid micro/nano-channel. Journal of Hydrodynamics, 2013, 25, 274-279.	3.2	3
26	Cyclic voltammetric determination of glutamic-pyruvic transaminase activity based on transdeamination. Analytical Methods, 2015, 7, 9421-9425.	2.7	3
27	Electrochemical determination of glutamic pyruvic transaminase using a microfluidic chip. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	3
28	Breakup mechanism of the electrically induced conical liquid bridge. Physics of Fluids, 2022, 34, .	4.0	3
29	Electrokinetic ion breakdown in a nanochannel. AIP Advances, 2016, 6, 075025.	1.3	2
30	Electrokinetic concentrating with a nanofluidic device for magnetic beads-based antigenâ€“antibody immunoassay. Microsystem Technologies, 2016, 22, 283-286.	2.0	2
31	Automatic Sorting System for Rigid Piezoelectric Transducer Wafers Used in Displacement Adjustment. Micromachines, 2020, 11, 915.	2.9	2
32	A Generic Algorithm for Position-Orientation Estimation with Microscopic Vision. IEEE Transactions on Instrumentation and Measurement, 2022, , 1-1.	4.7	1
33	Droplet-patterning of viscous adhesive assisted with microfluidic technique. International Journal of Adhesion and Adhesives, 2020, 98, 102518.	2.9	0
34	Parallel Microdispensing Method of High-Viscous Liquid Based on Electrostatic Force. Micromachines, 2022, 13, 545.	2.9	0