Wanjun Wang

List of Publications by Year
in descending order

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62	1,264	331670 21	395702 33
papers	citations	h-index	g-index

62	62	62	1466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A wireless passive extra-arterial implantable blood pressure monitoring sensing system for rats. Microsystem Technologies, 2021, 27, 2595-2603.	2.0	4
2	A 3D printed three-dimensional centrifugal fluidic system for blood separation. Microsystem Technologies, 2021, 27, 2639-2646.	2.0	4
3	A 3D printed centrifugal microfluidic platform for automated colorimetric urinalysis. Microsystem Technologies, 2020, 26, 291-299.	2.0	8
4	3D printing fabrication and test of a centrifugal cartridge with an integrated gravity valve for solid phase extractions. Sensors and Actuators A: Physical, 2020, 315, 112353.	4.1	1
5	A 3D Printed Jet Mixer for Centrifugal Microfluidic Platforms. Micromachines, 2020, 11, 695.	2.9	9
6	A 3D printed centrifugal microfluidic platform for spilled oil enrichment and detection based on solid phase extraction (SPE). Sensors and Actuators B: Chemical, 2019, 296, 126603.	7.8	17
7	Design and fabrication of an on-chip micro flow cytometer with integrated micro-lens. Microsystem Technologies, 2019, 25, 2241-2247.	2.0	2
8	3D printing fabrication of porous bismuth antimony telluride and study of the thermoelectric properties. Journal of Manufacturing Processes, 2019, 37, 370-375.	5.9	35
9	Rapid and low-cost fabrication of thermoelectric composite using low-pressure cold pressing and thermocuring methods. Materials Letters, 2018, 212, 299-302.	2.6	8
10	Mechanically programmed valving technology and the active flow switching application in centrifugal microfluidics. Sensors and Actuators B: Chemical, 2018, 259, 325-331.	7.8	10
11	A flexible metamaterial absorber with four bands and two resonators. Journal of Alloys and Compounds, 2017, 705, 262-268.	5.5	52
12	A microfluidic immunoassay system on a centrifugal platform. Sensors and Actuators B: Chemical, 2017, 251, 242-249.	7.8	29
13	Wedge actuated normally-open and normally-closed valves for centrifugal microfluidic applications. Sensors and Actuators B: Chemical, 2017, 243, 542-548.	7.8	8
14	A Rapid Micromixer for Centrifugal Microfluidic Platforms. Micromachines, 2016, 7, 89.	2.9	12
15	An Omnidirectional Polarization Detector Based on a Metamaterial Absorber. Sensors, 2016, 16, 1153.	3.8	16
16	A micro-cam actuated linear peristaltic pump for microfluidic applications. Sensors and Actuators A: Physical, 2016, 251, 20-25.	4.1	32
17	Membrane-based valves and inward-pumping system for centrifugal microfluidic platforms. Sensors and Actuators B: Chemical, 2016, 228, 251-258.	7.8	28
18	Modelling and simulation of forming process of the lithographically fabricated out-of-plane microlens using a cellular automata method. Microsystem Technologies, 2016, 22, 2001-2009.	2.0	0

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19	Microfabrication of a dual-mode rectangular waveguide filter. Microsystem Technologies, 2016, 22, 2011-2016.	2.0	5
20	Micromolding fabrication of microresistors with a composite of carbon nanotubes and SU-8 polymer and the application in Wilkinson power divider. Microsystem Technologies, 2016, 22, 2109-2116.	2.0	3
21	The development of high-speed actuator and its modeling. Advances in Mechanical Engineering, 2015, 7, 168781401561766.	1.6	1
22	A pinch-valve for centrifugal microfluidic platforms and its application in sequential valving operation and plasma extraction. Sensors and Actuators B: Chemical, 2015, 221, 257-264.	7.8	25
23	A magnetically actuated valve for centrifugal microfluidic applications. Sensors and Actuators B: Chemical, 2015, 206, 22-29.	7.8	37
24	Rapid and low cost replication of complex microfluidic structures with PDMS double casting technology. Microsystem Technologies, 2014, 20, 1933-1940.	2.0	30
25	Design and fabrication of microlens arrays as beam relay for free-space optical interconnection. Microsystem Technologies, 2014, 20, 1843-1847.	2.0	7
26	The fabrication and fast replication of out of plane parabolic microlens arrays. Sensors and Actuators A: Physical, 2014, 216, 190-195.	4.1	4
27	In-situ fabrication of an out-of-plane microlens with pre-definable focal length. Microsystem Technologies, 2013, 19, 1823-1828.	2.0	3
28	A novel fast and low cost replication technology for high-aspect-ratio magnetic microstructures. Microsystem Technologies, 2013, 19, 403-407.	2.0	3
29	A new fabrication method for all-PDMS waveguides. Sensors and Actuators A: Physical, 2013, 204, 44-47.	4.1	109
30	The fabrication of out of plane aspherical microlens arrays. Proceedings of SPIE, 2013, , .	0.8	0
31	Modeling and simulation of the surface profile forming process for optimum control of the lithographically fabricated microlenses and lens arrays. Proceedings of SPIE, 2012, , .	0.8	2
32	Fabrication of elastomeric high-aspect-ratio microstructures using polydimethylsiloxane (PDMS) double casting technique. Sensors and Actuators A: Physical, 2012, 178, 230-236.	4.1	70
33	Fabrication and mathematical analysis of an electrochemical microactuator (ECM) using electrodes coated with platinum nano-particles. Microsystem Technologies, 2010, 16, 381-390.	2.0	8
34	Fast replication of out-of-plane microlens with polydimethylsiloxane and curable polymer (NOA73). Microsystem Technologies, 2010, 16, 1471-1477.	2.0	14
35	Design, fabrication, and test of an on-chip micro flow cytometer with integrated out-of-plane microlenses. Microsystem Technologies, 2010, 16, 1569-1576.	2.0	3
36	Fabrication of comb-drive micro-actuators based on UV lithography of SU-8 and electroless plating technique. Microsystem Technologies, 2008, 14, 1745-1750.	2.0	8

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37	Design and fabrication of an electrochemically actuated microvalve. Microsystem Technologies, 2008, 14, 1751-1756.	2.0	38
38	Microfabrication of an integrated optical cell counter for cytometry application. Proceedings of SPIE, 2008, , .	0.8	1
39	Study on structural optimum design of implantable drug delivery micro-system. Simulation Modelling Practice and Theory, 2007, 15, 47-56.	3.8	7
40	Selective metallization of cured SU-8 microstructures using electroless plating method. Sensors and Actuators A: Physical, 2007, 135, 300-307.	4.1	24
41	A new UV lithography photoresist based on composite of EPON resins 165 and 154 for fabrication of high-aspect-ratio microstructures. Sensors and Actuators A: Physical, 2007, 135, 625-636.	4.1	31
42	Fabrication and test of an electrochemical microactutor. , 2006, , .		2
43	A New Negative-Tone, UV Lithography Photoresist for Fabrication of Ultra-High-Aspect-Ratio Microstructures. , 2006, , 339.		0
44	Microfabrication of pre-aligned fiber bundle couplers using ultraviolet lithography of SU-8. Sensors and Actuators A: Physical, 2006, 127, 123-130.	4.1	17
45	Experiment design and UV-LIGA microfabrication technology to study the fracture toughness of Ni microstructures. Microsystem Technologies, 2006, 12, 306-314.	2.0	16
46	Numerical simulation and fabrication of microscale, multilevel, tapered mold inserts using UV-Lithographie, Galvanoformung, Abformung (LIGA) technology. Microsystem Technologies, 2006, 12, 545-553.	2.0	15
47	Design and fabrication of a SU-8 based electrostatic microactuator. Microsystem Technologies, 2006, 13, 271-277.	2.0	24
48	Microfabrication and test of a three-dimensional polymer hydro-focusing unit for flow cytometry applications. Sensors and Actuators A: Physical, 2005, 118, 259-267.	4.1	89
49	Numerical simulation and test of a UV-LIGA-fabricated electromagnetic micro-relay for power applications. Sensors and Actuators A: Physical, 2005, 120, 154-162.	4.1	24
50	Microfabrication of biodegradable (PLGA) honeycomb-structures and potential applications in implantable drug delivery. Sensors and Actuators B: Chemical, 2005, 106, 506-511.	7.8	34
51	A numerical and experimental study on gap compensation and wavelength selection in UV-lithography of ultra-high aspect ratio SU-8 microstructures. Sensors and Actuators B: Chemical, 2005, 110, 279-288.	7.8	105
52	A quantitative study on the adhesion property of cured SU-8 on various metallic surfaces. Microsystem Technologies, 2005, 11, 526-534.	2.0	54
53	Out-of-plane microlens array fabricated using ultraviolet lithography. Applied Physics Letters, 2005, 86, 161110.	3.3	35
54	A rapid micro-mixer/reactor based on arrays of spatially impinging micro-jets. Journal of Micromechanics and Microengineering, 2004, 14, 1345-1351.	2.6	49

#	Article	IF	Citations
55	Out-of-plane polymer refractive microlens fabricated based on direct lithography of SU-8. Sensors and Actuators A: Physical, 2004, 113, 71-77.	4.1	41
56	Microaccelerometers using cured SU-8 as structural material. , 2004, , .		10
57	Fabrication of out-of-plane SU-8 refractive microlens using direct lithography method. , 2004, 5346, 151.		8
58	UV-LIGA microfabrication of a power relay based on electrostatic actuation. , 2003, 4981, 122.		9
59	Electrochemical micropump and its application in a DNA mixing and analysis system. , 2003, , .		7
60	<title>UV-LIGA microfabrication and test of an ac-type micropump based on the magnetohydrodynamic (MHD) principle</title>. , 2000, 4177, 161.		10
61	Peltier-effect module for highly localized temperature manipulations. Review of Scientific Instruments, 1999, 70, 4398-4403.	1.3	3
62	A high precision micropositioner with five degrees of freedom based on an electromagnetic driving principle. Review of Scientific Instruments, 1996, 67, 312-317.	1.3	4