

Wanjun Wang

List of Publications by Year in descending order

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62
papers

1,264
citations

331670

21
h-index

395702

33
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62
all docs

62
docs citations

62
times ranked

1466
citing authors

#	ARTICLE	IF	CITATIONS
1	A new fabrication method for all-PDMS waveguides. <i>Sensors and Actuators A: Physical</i> , 2013, 204, 44-47.	4.1	109
2	A numerical and experimental study on gap compensation and wavelength selection in UV-lithography of ultra-high aspect ratio SU-8 microstructures. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 279-288.	7.8	105
3	Microfabrication and test of a three-dimensional polymer hydro-focusing unit for flow cytometry applications. <i>Sensors and Actuators A: Physical</i> , 2005, 118, 259-267.	4.1	89
4	Fabrication of elastomeric high-aspect-ratio microstructures using polydimethylsiloxane (PDMS) double casting technique. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 230-236.	4.1	70
5	A quantitative study on the adhesion property of cured SU-8 on various metallic surfaces. <i>Microsystem Technologies</i> , 2005, 11, 526-534.	2.0	54
6	A flexible metamaterial absorber with four bands and two resonators. <i>Journal of Alloys and Compounds</i> , 2017, 705, 262-268.	5.5	52
7	A rapid micro-mixer/reactor based on arrays of spatially impinging micro-jets. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1345-1351.	2.6	49
8	Out-of-plane polymer refractive microlens fabricated based on direct lithography of SU-8. <i>Sensors and Actuators A: Physical</i> , 2004, 113, 71-77.	4.1	41
9	Design and fabrication of an electrochemically actuated microvalve. <i>Microsystem Technologies</i> , 2008, 14, 1751-1756.	2.0	38
10	A magnetically actuated valve for centrifugal microfluidic applications. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 22-29.	7.8	37
11	Out-of-plane microlens array fabricated using ultraviolet lithography. <i>Applied Physics Letters</i> , 2005, 86, 161110.	3.3	35
12	3D printing fabrication of porous bismuth antimony telluride and study of the thermoelectric properties. <i>Journal of Manufacturing Processes</i> , 2019, 37, 370-375.	5.9	35
13	Microfabrication of biodegradable (PLGA) honeycomb-structures and potential applications in implantable drug delivery. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 506-511.	7.8	34
14	A micro-cam actuated linear peristaltic pump for microfluidic applications. <i>Sensors and Actuators A: Physical</i> , 2016, 251, 20-25.	4.1	32
15	A new UV lithography photoresist based on composite of EPON resins 165 and 154 for fabrication of high-aspect-ratio microstructures. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 625-636.	4.1	31
16	Rapid and low cost replication of complex microfluidic structures with PDMS double casting technology. <i>Microsystem Technologies</i> , 2014, 20, 1933-1940.	2.0	30
17	A microfluidic immunoassay system on a centrifugal platform. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 242-249.	7.8	29
18	Membrane-based valves and inward-pumping system for centrifugal microfluidic platforms. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 251-258.	7.8	28

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19	A pinch-valve for centrifugal microfluidic platforms and its application in sequential valving operation and plasma extraction. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 257-264.	7.8	25
20	Numerical simulation and test of a UV-LIGA-fabricated electromagnetic micro-relay for power applications. <i>Sensors and Actuators A: Physical</i> , 2005, 120, 154-162.	4.1	24
21	Design and fabrication of a SU-8 based electrostatic microactuator. <i>Microsystem Technologies</i> , 2006, 13, 271-277.	2.0	24
22	Selective metallization of cured SU-8 microstructures using electroless plating method. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 300-307.	4.1	24
23	Microfabrication of pre-aligned fiber bundle couplers using ultraviolet lithography of SU-8. <i>Sensors and Actuators A: Physical</i> , 2006, 127, 123-130.	4.1	17
24	A 3D printed centrifugal microfluidic platform for spilled oil enrichment and detection based on solid phase extraction (SPE). <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126603.	7.8	17
25	Experiment design and UV-LIGA microfabrication technology to study the fracture toughness of Ni microstructures. <i>Microsystem Technologies</i> , 2006, 12, 306-314.	2.0	16
26	An Omnidirectional Polarization Detector Based on a Metamaterial Absorber. <i>Sensors</i> , 2016, 16, 1153.	3.8	16
27	Numerical simulation and fabrication of microscale, multilevel, tapered mold inserts using UV-Lithographie, Galvanoformung, Abformung (LIGA) technology. <i>Microsystem Technologies</i> , 2006, 12, 545-553.	2.0	15
28	Fast replication of out-of-plane microlens with polydimethylsiloxane and curable polymer (NOA73). <i>Microsystem Technologies</i> , 2010, 16, 1471-1477.	2.0	14
29	A Rapid Micromixer for Centrifugal Microfluidic Platforms. <i>Micromachines</i> , 2016, 7, 89.	2.9	12
30	<title>UV-LIGA microfabrication and test of an ac-type micropump based on the magnetohydrodynamic (MHD) principle</title>. , 2000, 4177, 161.		10
31	Microaccelerometers using cured SU-8 as structural material. , 2004, , .		10
32	Mechanically programmed valving technology and the active flow switching application in centrifugal microfluidics. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 325-331.	7.8	10
33	UV-LIGA microfabrication of a power relay based on electrostatic actuation. , 2003, 4981, 122.		9
34	A 3D Printed Jet Mixer for Centrifugal Microfluidic Platforms. <i>Micromachines</i> , 2020, 11, 695.	2.9	9
35	Fabrication of out-of-plane SU-8 refractive microlens using direct lithography method. , 2004, 5346, 151.		8
36	Fabrication of comb-drive micro-actuators based on UV lithography of SU-8 and electroless plating technique. <i>Microsystem Technologies</i> , 2008, 14, 1745-1750.	2.0	8

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37	Fabrication and mathematical analysis of an electrochemical microactuator (ECM) using electrodes coated with platinum nano-particles. <i>Microsystem Technologies</i> , 2010, 16, 381-390.	2.0	8
38	Wedge actuated normally-open and normally-closed valves for centrifugal microfluidic applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 542-548.	7.8	8
39	Rapid and low-cost fabrication of thermoelectric composite using low-pressure cold pressing and thermocuring methods. <i>Materials Letters</i> , 2018, 212, 299-302.	2.6	8
40	A 3D printed centrifugal microfluidic platform for automated colorimetric urinalysis. <i>Microsystem Technologies</i> , 2020, 26, 291-299.	2.0	8
41	Electrochemical micropump and its application in a DNA mixing and analysis system. , 2003, , .		7
42	Study on structural optimum design of implantable drug delivery micro-system. <i>Simulation Modelling Practice and Theory</i> , 2007, 15, 47-56.	3.8	7
43	Design and fabrication of microlens arrays as beam relay for free-space optical interconnection. <i>Microsystem Technologies</i> , 2014, 20, 1843-1847.	2.0	7
44	Microfabrication of a dual-mode rectangular waveguide filter. <i>Microsystem Technologies</i> , 2016, 22, 2011-2016.	2.0	5
45	A high precision micropositioner with five degrees of freedom based on an electromagnetic driving principle. <i>Review of Scientific Instruments</i> , 1996, 67, 312-317.	1.3	4
46	The fabrication and fast replication of out of plane parabolic microlens arrays. <i>Sensors and Actuators A: Physical</i> , 2014, 216, 190-195.	4.1	4
47	A wireless passive extra-arterial implantable blood pressure monitoring sensing system for rats. <i>Microsystem Technologies</i> , 2021, 27, 2595-2603.	2.0	4
48	A 3D printed three-dimensional centrifugal fluidic system for blood separation. <i>Microsystem Technologies</i> , 2021, 27, 2639-2646.	2.0	4
49	Peltier-effect module for highly localized temperature manipulations. <i>Review of Scientific Instruments</i> , 1999, 70, 4398-4403.	1.3	3
50	Design, fabrication, and test of an on-chip micro flow cytometer with integrated out-of-plane microlenses. <i>Microsystem Technologies</i> , 2010, 16, 1569-1576.	2.0	3
51	In-situ fabrication of an out-of-plane microlens with pre-definable focal length. <i>Microsystem Technologies</i> , 2013, 19, 1823-1828.	2.0	3
52	A novel fast and low cost replication technology for high-aspect-ratio magnetic microstructures. <i>Microsystem Technologies</i> , 2013, 19, 403-407.	2.0	3
53	Micromolding fabrication of microresistors with a composite of carbon nanotubes and SU-8 polymer and the application in Wilkinson power divider. <i>Microsystem Technologies</i> , 2016, 22, 2109-2116.	2.0	3
54	Fabrication and test of an electrochemical microactuator. , 2006, , .		2

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55	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
56	Design and fabrication of an on-chip micro flow cytometer with integrated micro-lens. Microsystem Technologies, 2019, 25, 2241-2247.	2.0	2
57	Microfabrication of an integrated optical cell counter for cytometry application. Proceedings of SPIE, 2008, , .	0.8	1
58	The development of high-speed actuator and its modeling. Advances in Mechanical Engineering, 2015, 7, 168781401561766.	1.6	1
59	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
60	A New Negative-Tone, UV Lithography Photoresist for Fabrication of Ultra-High-Aspect-Ratio Microstructures. , 2006, , 339.		0
61	The fabrication of out of plane aspherical microlens arrays. Proceedings of SPIE, 2013, , .	0.8	0
62	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