

Kan Liu

List of Publications by Year in descending order

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57
papers

2,763
citations

257357

24
h-index

206029

48
g-index

60
all docs

60
docs citations

60
times ranked

4213
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step detection of oral ulcers and oral cancer derived exosomes on wedge-shaped and high magnetic field gradient mediated chip. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131403.	4.0	4
2	An automated detection of influenza virus based on 3-D magnetophoretic separation and magnetic label. <i>Analyst</i> , The, 2021, 146, 930-936.	1.7	8
3	Precise and convenient size barcode on microfluidic chip for multiplex biomarker detection. <i>Analyst</i> , The, 2021, 146, 5892-5897.	1.7	3
4	Simultaneous and automated detection of influenza A virus hemagglutinin H7 and H9 based on magnetism and size mediated microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127675.	4.0	44
5	Negative depletion mediated brightfield circulating tumour cell identification strategy on microparticle-based microfluidic chip. <i>Journal of Nanobiotechnology</i> , 2020, 18, 70.	4.2	10
6	Simple and convenient microfluidic flow rate measurement based on microbubble image velocimetry. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	7
7	High-performance multiplex microvalves fabrication and using for tumor cells staining on a microfluidic chip. <i>Biomedical Microdevices</i> , 2019, 21, 87.	1.4	7
8	Cancer Cell Membrane Camouflaged Nanoparticles to Realize Starvation Therapy Together with Checkpoint Blockades for Enhancing Cancer Therapy. <i>ACS Nano</i> , 2019, 13, 2849-2857.	7.3	253
9	Highly Efficient Isolation of Circulating Tumor Cells Using a Simple Wedge-Shaped Microfluidic Device. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1536-1541.	2.5	14
10	A simple pyramid-shaped microchamber towards highly efficient isolation of circulating tumor cells from breast cancer patients. <i>Biomedical Microdevices</i> , 2018, 20, 83.	1.4	8
11	Enhanced performance of multi-dimensional CoS nanoflake/NiO nanosheet architecture with synergetic effect for asymmetric supercapacitor. <i>Nanotechnology</i> , 2018, 29, 455401.	1.3	28
12	Wedge-shaped microfluidic chip for circulating tumor cells isolation and its clinical significance in gastric cancer. <i>Journal of Translational Medicine</i> , 2018, 16, 139.	1.8	40
13	Platelet- α -Leukocyte Hybrid Membrane- α -Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1803531.	7.8	154
14	Early Cancer Diagnosis: Platelet- α -Leukocyte Hybrid Membrane- α -Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells (<i>Adv. Funct. Mater.</i> 34/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870241.	7.8	1
15	PMMA microfluidic chip fabrication using laser ablation and low temperature bonding with OCA film and LOCA. <i>Microsystem Technologies</i> , 2017, 23, 1937-1942.	1.2	28
16	Bidirectional electroluminescence from p-SnO ₂ /i-MgZnO/n-ZnO heterojunction light-emitting diodes. <i>Journal of Luminescence</i> , 2017, 186, 223-228.	1.5	18
17	Highly efficient isolation and release of circulating tumor cells based on size-dependent filtration and degradable ZnO nanorods substrate in a wedge-shaped microfluidic chip. <i>Biomedical Microdevices</i> , 2017, 19, 93.	1.4	13
18	A Metamaterial with Dual-Band Perfect Terahertz Transmission. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 250, 012019.	0.3	2

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19	A 3D-printed metamaterial with electromagnetically induced transmission. IOP Conference Series: Materials Science and Engineering, 2017, 250, 012046.	0.3	0
20	On-demand generation and mixing of liquid-in-gas slugs with digitally programmable composition and size. Journal of Micromechanics and Microengineering, 2015, 25, 084006.	1.5	6
21	Self-amplified piezoelectric nanogenerator with enhanced output performance: The synergistic effect of micropatterned polymer film and interweaved silver nanowires. Applied Physics Letters, 2015, 106, .	1.5	24
22	Self-powered blue-sensitive photodetector based on PEDOT:PSS/SnO ₂ microwires organic/inorganic p-n heterojunction. Applied Physics A: Materials Science and Processing, 2015, 119, 1561-1566.	1.1	26
23	Design of Insulation Resistance Measurement System for Electrical Steel Sheet Surface Coating. Applied Mechanics and Materials, 2014, 494-495, 895-898.	0.2	0
24	Real-Time Micro-Fluidic Chip Pressure Control System Base on the Optical Interference. Applied Mechanics and Materials, 2014, 494-495, 1274-1277.	0.2	0
25	An automatic microfluidic sample transfer and introduction system. Microfluidics and Nanofluidics, 2014, 16, 101-108.	1.0	1
26	Generation of disk-like hydrogel beads for cell encapsulation and manipulation using a droplet-based microfluidic device. Microfluidics and Nanofluidics, 2012, 13, 761-767.	1.0	51
27	Electrospun TiO ₂ Nanofiber-Based Cell Capture Assay for Detecting Circulating Tumor Cells from Colorectal and Gastric Cancer Patients. Advanced Materials, 2012, 24, 2756-2760.	11.1	315
28	Assays: Electrospun TiO ₂ Nanofiber-Based Cell Capture Assay for Detecting Circulating Tumor Cells from Colorectal and Gastric Cancer Patients (Adv. Mater. 20/2012). Advanced Materials, 2012, 24, 2755-2755.	11.1	3
29	Rapid purification of cell encapsulated hydrogel beads from oil phase to aqueous phase in a microfluidic device. Lab on A Chip, 2011, 11, 4117.	3.1	40
30	Microfluidic-Based ¹⁸ F-Labeling of Biomolecules for Immuno-Positron Emission Tomography. Molecular Imaging, 2011, 10, 7290.2010.00043.	0.7	26
31	Molecular Imaging Probe Development Using Microfluidics. Current Organic Synthesis, 2011, 8, 473-487.	0.7	14
32	A novel method for generation of amphiphilic PDMS particles by selective modification. Microfluidics and Nanofluidics, 2011, 10, 453-458.	1.0	11
33	Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers. Angewandte Chemie - International Edition, 2011, 50, 3084-3088.	7.2	576
34	Cover Picture: Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers (Angew. Chem. Int. Ed. 13/2011). Angewandte Chemie - International Edition, 2011, 50, 2857-2857.	7.2	0
35	Microfluidic-based ¹⁸ F-labeling of biomolecules for immuno-positron emission tomography. Molecular Imaging, 2011, 10, 168-76, 1-7.	0.7	24
36	Microfluidic device for robust generation of two-component liquid-in-air slugs with individually controlled composition. Microfluidics and Nanofluidics, 2010, 9, 933-943.	1.0	17

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37	Microfluidics for Positron Emission Tomography Probe Development. <i>Molecular Imaging</i> , 2010, 9, 7290.2010.00027.	0.7	31
38	Valve-based microfluidic device for droplet on-demand operation and static assay. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	47
39	A digital microfluidic droplet generator produces self-assembled supramolecular nanoparticles for targeted cell imaging. <i>Nanotechnology</i> , 2010, 21, 445603.	1.3	28
40	Droplet electric separator microfluidic device for cell sorting. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	78
41	A Rapid Pathway Toward a Superb Gene Delivery System: Programming Structural and Functional Diversity into a Supramolecular Nanoparticle Library. <i>ACS Nano</i> , 2010, 4, 6235-6243.	7.3	122
42	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. <i>Chemical Communications</i> , 2010, 46, 1851-1853.	2.2	51
43	Microfluidics for positron emission tomography probe development. <i>Molecular Imaging</i> , 2010, 9, 175-91.	0.7	15
44	Cerenkov radiation imaging as a method for quantitative measurements of beta particles in a microfluidic chip. <i>Physics in Medicine and Biology</i> , 2009, 54, 6757-6771.	1.6	101
45	An integrated microfluidic device for large-scale in situ click chemistry screening. <i>Lab on A Chip</i> , 2009, 9, 2281.	3.1	91
46	A Hydrodynamically Focused Stream as a Dynamic Template for Site-Specific Electrochemical Micropatterning of Conducting Polymers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1072-1075.	7.2	31
47	A dynamic micromixer for arbitrary control of disguised chemical selectivity. <i>Chemical Communications</i> , 2008, , 3426.	2.2	10
48	Controlled-Release of Materials in Calcium Alginate Microbeads Prepared by Microfluidic Device. , 2007, , .		0
49	Manipulation of Droplets in Micro-Channel Through Magnetic Field. , 2007, , .		0
50	The Observation of Bacteria and Yeast through Microfluidic Devices. , 2007, , .		0
51	A Smart Electrowetting Device Based on PDMS and Glass for Manipulating Cells in Droplet. , 2007, , .		0
52	Injection Angle Dependence in Flow Focusing Based Droplet Formation. , 2007, , .		4
53	Flow-Focusing Generation of Monodisperse Water Droplets Wrapped by Ionic Liquid on Microfluidic Chips: From Plug to Sphere. <i>Langmuir</i> , 2007, 23, 11924-11931.	1.6	34
54	Droplet-based synthetic method using microflow focusing and droplet fusion. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 239-243.	1.0	76

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55	Shape-Controlled Production of Biodegradable Calcium Alginate Gel Microparticles Using a Novel Microfluidic Device. Langmuir, 2006, 22, 9453-9457.	1.6	207
56	Design of the New System of Verify Gas Relay. Applied Mechanics and Materials, 0, 446-447, 667-671.	0.2	0
57	Auto-Detecting System for Circulating Tumor Cells Based on LabView. Applied Mechanics and Materials, 0, 543-547, 1087-1090.	0.2	0