

Zongjie Wang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,797
citations

201674

27
h-index

110387

64
g-index

70
all docs

70
docs citations

70
times ranked

7100
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent trends in gelatin methacryloyl nanocomposite hydrogels for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 708-724.	4.0	55
2	Efficient recovery of potent tumour-infiltrating lymphocytes through quantitative immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2022, 6, 108-117.	22.5	31
3	PillarX: A Microfluidic Device to Profile Circulating Tumor Cell Clusters Based on Geometry, Deformability, and Epithelial State. <i>Small</i> , 2022, 18, e2106097.	10.0	17
4	A kinetic model for predicting imperfections in the bioink photopolymerization process during visible-light stereolithography printing. <i>Additive Manufacturing</i> , 2022, , 102808.	3.0	5
5	Optimized 3D Bioprinting Technology Based on Machine Learning: A Review of Recent Trends and Advances. <i>Micromachines</i> , 2022, 13, 363.	2.9	23
6	Nanoparticle Amplification Labeling for High-Performance Magnetic Cell Sorting. <i>Nano Letters</i> , 2022, 22, 4774-4783.	9.1	13
7	Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting. <i>Nature Biomedical Engineering</i> , 2021, 5, 41-52.	22.5	40
8	Designing Gelatin Methacryloyl (GelMA)-Based Bioinks for Visible Light Stereolithographic 3D Biofabrication. <i>Macromolecular Bioscience</i> , 2021, 21, e2000317.	4.1	51
9	Polyether ether ketone surface modification with plasma and gelatin for enhancing cell attachment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 622-629.	3.4	19
10	Development and in vitro evaluation of photocurable GelMA/PEGDA hybrid hydrogel for corneal stromal cells delivery. <i>Materials Today Communications</i> , 2021, 27, 102459.	1.9	9
11	A rapid near-patient detection system for SARS-CoV-2 using saliva. <i>Scientific Reports</i> , 2021, 11, 13378.	3.3	17
12	Tunable metacrylated hyaluronic acid-based hybrid bioinks for stereolithography 3D bioprinting. <i>Biofabrication</i> , 2021, 13, 044109.	7.1	26
13	Micro/nanotechnology-inspired rapid diagnosis of respiratory infectious diseases. <i>Biomedical Engineering Letters</i> , 2021, 11, 335-365.	4.1	5
14	Ultrasensitive Detection and Depletion of Rare Leukemic B Cells in T Cell Populations via Immunomagnetic Cell Ranking. <i>Analytical Chemistry</i> , 2021, 93, 2327-2335.	6.5	10
15	A microfluidic platform enables comprehensive gene expression profiling of mouse retinal stem cells. <i>Lab on A Chip</i> , 2021, 21, 4464-4476.	6.0	3
16	Phage-Based Profiling of Rare Single Cells Using Nanoparticle-Directed Capture. <i>ACS Nano</i> , 2021, 15, 19202-19210.	14.6	14
17	A liquid biopsy for detecting circulating mesothelial precursor cells: A new biomarker for diagnosis and prognosis in mesothelioma. <i>EBioMedicine</i> , 2020, 61, 103031.	6.1	7
18	Magnetic Ranking Cytometry: Profiling Rare Cells at the Single-Cell Level. <i>Accounts of Chemical Research</i> , 2020, 53, 1445-1457.	15.6	18

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19	Biofabrication strategies for engineering heterogeneous artificial tissues. <i>Additive Manufacturing</i> , 2020, 36, 101459.	3.0	15
20	Fluorescent Droplet Cytometry for On-Cell Phenotype Tracking. <i>Journal of the American Chemical Society</i> , 2020, 142, 14805-14809.	13.7	15
21	Nanostructured Architectures Promote the Mesenchymalâ€“Epithelial Transition for Invasive Cells. <i>ACS Nano</i> , 2020, 14, 5324-5336.	14.6	17
22	Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. <i>Science Advances</i> , 2020, 6, eaay7629.	10.3	28
23	Stereolithography 3D Bioprinting Method for Fabrication of Human Corneal Stroma Equivalent. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1955-1970.	2.5	62
24	Antibacterial efficiency assessment of polymer-nanoparticle composites using a high-throughput microfluidic platform. <i>Materials Science and Engineering C</i> , 2020, 111, 110754.	7.3	13
25	Microfluidics-based fabrication of cell-laden microgels. <i>Biomicrofluidics</i> , 2020, 14, 021501.	2.4	40
26	High Throughput Screening of Cell Mechanical Response Using a Stretchable 3D Cellular Microarray Platform. <i>Small</i> , 2020, 16, e2000941.	10.0	16
27	Stereolithography 3D Bioprinting. <i>Methods in Molecular Biology</i> , 2020, 2140, 93-108.	0.9	61
28	Potentialâ€“Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. <i>Angewandte Chemie</i> , 2019, 131, 14661-14665.	2.0	6
29	Potentialâ€“Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14519-14523.	13.8	40
30	Peptide-Functionalized Nanostructured Microarchitectures Enable Rapid Mechanotransductive Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41030-41037.	8.0	10
31	Rapid and Inexpensive Fabrication of Multi-Depth Microfluidic Device using High-Resolution LCD Stereolithographic 3D Printing. <i>Journal of Manufacturing and Materials Processing</i> , 2019, 3, 26.	2.2	48
32	An integrated microfluidic flow-focusing platform for on-chip fabrication and filtration of cell-laden microgels. <i>Lab on A Chip</i> , 2019, 19, 1621-1632.	6.0	48
33	A Novel, Wellâ€“Resolved Direct Laser Bioprinting System for Rapid Cell Encapsulation and Microwell Fabrication. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701249.	7.6	42
34	Detection and Automation Technologies for the Mass Production of Droplet Biomicrofluidics. <i>IEEE Reviews in Biomedical Engineering</i> , 2018, 11, 260-274.	18.0	7
35	A High-Resolution Minimicroscope System for Wireless Real-Time Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1524-1531.	4.2	11
36	Nanowire-Based Biosensors: From Growth to Applications. <i>Micromachines</i> , 2018, 9, 679.	2.9	99

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37	Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. <i>Nano Letters</i> , 2018, 18, 7188-7193.	9.1	60
38	Programmable Metal/Semiconductor Nanostructures for mRNA-Modulated Molecular Delivery. <i>Nano Letters</i> , 2018, 18, 6222-6228.	9.1	36
39	Visible Light Photoinitiation of Cell-Adhesive Gelatin Methacryloyl Hydrogels for Stereolithography 3D Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26859-26869.	8.0	197
40	A designing method for bandâ€reject filter with high selectivity and tunable bandwidth. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 1715-1720.	1.4	0
41	Rapid Fabrication of Multilayer Microfluidic Devices Using the Liquid Crystal Display-Based Stereolithography 3D Printing System. <i>3D Printing and Additive Manufacturing</i> , 2017, 4, 156-164.	2.9	40
42	Visible light-based stereolithography bioprinting of cell-adhesive gelatin hydrogels. , 2017, 2017, 1599-1602.		29
43	Comparative study of gelatin methacrylate hydrogels from different sources for biofabrication applications. <i>Biofabrication</i> , 2017, 9, 044101.	7.1	81
44	Adipose-Derived Stem Cells for Tissue Engineering and Regenerative Medicine Applications. <i>Stem Cells International</i> , 2016, 2016, 1-19.	2.5	221
45	Highâ€throughput investigation of endothelialâ€toâ€mesenchymal transformation (EndMT) with combinatorial cellular microarrays. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1403-1412.	3.3	16
46	An automated system for high-throughput generation and optimization of microdroplets. <i>Biomicrofluidics</i> , 2016, 10, 054110.	2.4	12
47	Experimental and computational study of microfluidic flowâ€focusing generation of gelatin methacrylate hydrogel droplets. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	24
48	An ultrafast hydrogel photocrosslinking method for direct laser bioprinting. <i>RSC Advances</i> , 2016, 6, 21099-21104.	3.6	75
49	Rapid fabrication of circular channel microfluidic flowâ€focusing devices for hydrogel droplet generation. <i>Micro and Nano Letters</i> , 2016, 11, 41-45.	1.3	21
50	Nanowire-Based Sensors for Biological and Medical Applications. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 186-199.	3.3	60
51	3D bioprinting for engineering complex tissues. <i>Biotechnology Advances</i> , 2016, 34, 422-434.	11.7	1,240
52	Organ-on-a-Chip Platforms for Drug Screening and Tissue Engineering. <i>Biosystems and Biorobotics</i> , 2016, , 209-233.	0.3	15
53	The cleanroom-free rapid fabrication of a liquid conductivity sensor for surface water quality monitoring. <i>Microsystem Technologies</i> , 2016, 22, 2273-2278.	2.0	4
54	UWB microwave breast cancer detection with MRI-derived 3-D realistic numerical breast model. , 2015, , .		3

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55	A simple and high-resolution stereolithography-based 3D bioprinting system using visible light crosslinkable bioinks. <i>Biofabrication</i> , 2015, 7, 045009.	7.1	466
56	Embryoid body size-mediated differential endodermal and mesodermal differentiation using polyethylene glycol (PEG) microwell array. <i>Macromolecular Research</i> , 2015, 23, 245-255.	2.4	21
57	Development and Investigation of a Sweetness Sensor for Sugars -Effect of Lipids-. <i>Sensors and Materials</i> , 2015, , 1.	0.5	9
58	A progressive processing method for breast cancer detection via UWB based on an MRI-derived model. <i>Chinese Physics B</i> , 2014, 23, 074101.	1.4	11
59	Development of Anatomically Realistic Numerical Breast Phantoms Based on T1- and T2-Weighted MRIs for Microwave Breast Cancer Detection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 1757-1760.	4.0	16
60	An optical multi-sensing system for detection of cardiovascular toxicity. <i>Biotechnology Letters</i> , 2014, 36, 1089-1094.	2.2	3
61	Microfluidics-Assisted Fabrication of Gelatin-Silica Core-Shell Microgels for Injectable Tissue Constructs. <i>Biomacromolecules</i> , 2014, 15, 283-290.	5.4	133
62	Ultra-wideband microwave robust Capon beamforming imaging system for early breast cancer detection. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014, 63, 194102.	0.5	2
63	Novel lowpass filter with ultra-wide stopband using defected ground structure. , 2013, , .		0
64	Carbon-Nanotube-Embedded Hydrogel Sheets for Engineering Cardiac Constructs and Bioactuators. <i>ACS Nano</i> , 2013, 7, 2369-2380.	14.6	789
65	Sacrificial layer technique for axial force post assay of immature cardiomyocytes. <i>Biomedical Microdevices</i> , 2013, 15, 171-181.	2.8	35
66	The compact band-pass filter using L slot lines and enhanced air-bridge for the spurious responses suppression. , 2013, , .		0
67	Novel ultra-wide bandpass filter with notched band using multimode resonator and open stubs. , 2013, , .		2
68	A COMPACT DUAL-BAND BAND-PASS FILTER WITH WIDE STOP-BAND USING TWO RESONATORS COMBINED BY VIA-HOLE. <i>Progress in Electromagnetics Research C</i> , 2013, 41, 81-95.	0.9	3
69	Directed endothelial cell morphogenesis in micropatterned gelatin methacrylate hydrogels. <i>Biomaterials</i> , 2012, 33, 9009-9018.	11.4	221
70	Spot Identification and Quality Control in Cell-Based Microarrays. <i>ACS Combinatorial Science</i> , 2012, 14, 471-477.	3.8	11