Weijia Zhang

List of Publications by Year
in descending order

36 papers	2,149 citations	304743 22 h-index	330143 37 g-index
44 all docs	44 docs citations	44 times ranked	3888 citing authors

#	Article	IF	Citations
1	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2293-E2302.	7.1	570
2	Selfâ€Assembly of Enzymeâ€Like Nanofibrous Gâ€Molecular Hydrogel for Printed Flexible Electrochemical Sensors. Advanced Materials, 2018, 30, e1706887.	21.0	198
3	Reversed-engineered human alveolar lung-on-a-chip model. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	144
4	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. Biomaterials, 2017, 139, 163-171.	11.4	140
5	Cancer-on-a-chip systems at the frontier of nanomedicine. Drug Discovery Today, 2017, 22, 1392-1399.	6.4	102
6	Rapid and non-invasive detection and imaging of the hydrocolloid-injected prawns with low-field NMR and MRI. Food Chemistry, 2018, 242, 16-21.	8.2	91
7	Synergy between Crystal Strain and Surface Energy in Morphological Evolution of Five-Fold-Twinned Silver Crystals. Journal of the American Chemical Society, 2008, 130, 15581-15588.	13.7	84
8	Development of mercury (II) ion biosensors based on mercury-specific oligonucleotide probes. Biosensors and Bioelectronics, 2016, 75, 433-445.	10.1	83
9	Elastomeric free-form blood vessels for interconnecting organs on chip systems. Lab on A Chip, 2016, 16, 1579-1586.	6.0	79
10	High-Concentration Preparation of Silver Nanowires: Restraining in Situ Nitric Acidic Etching by Steel-Assisted Polyol Method. Chemistry of Materials, 2008, 20, 1699-1704.	6.7	77
11	A General Strategy for Extrusion Bioprinting of Bioâ€Macromolecular Bioinks through Alginateâ€Templated Dualâ€Stage Crosslinking. Macromolecular Bioscience, 2018, 18, e1800127.	4.1	60
12	In Situ Synthesis of Magnetic Mesoporous Phenolic Resin for the Selective Enrichment of Glycopeptides. Analytical Chemistry, 2018, 90, 7357-7363.	6.5	51
13	Rapid and highly selective detection of formaldehyde in food using quartz crystal microbalance sensors based on biomimetic poly-dopamine functionalized hollow mesoporous silica spheres. Sensors and Actuators B: Chemical, 2018, 271, 311-320.	7.8	49
14	Four novel algal virus genomes discovered from Yellowstone Lake metagenomes. Scientific Reports, 2015, 5, 15131.	3.3	44
15	Fate of Vibrio parahaemolyticus on shrimp after acidic electrolyzed water treatment. International Journal of Food Microbiology, 2014, 179, 50-56.	4.7	39
16	A hydrostatic pressure-driven passive micropump enhanced with siphon-based autofill function. Lab on A Chip, 2018, 18, 2167-2177.	6.0	37
17	Microfluidic Air Sampler for Highly Efficient Bacterial Aerosol Collection and Identification. Analytical Chemistry, 2016, 88, 11504-11512.	6.5	30
18	Fractal SERS nanoprobes for multiplexed quantitative gene profiling. Biosensors and Bioelectronics, 2020, 156, 112130.	10.1	30

#	Article	IF	Citations
19	Hydrogel Bioink with Multilayered Interfaces Improves Dispersibility of Encapsulated Cells in Extrusion Bioprinting. ACS Applied Materials & Interfaces, 2019, 11, 30585-30595.	8.0	27
20	A Low-Cost and High Sensitive Paper-Based Microfluidic Device for Rapid Detection of Glucose in Fruit. Food Analytical Methods, 2017, 10, 666-674.	2.6	26
21	A Self-Calibrating Surface-Enhanced Raman Scattering-Active System for Bacterial Phenotype Detection. Analytical Chemistry, 2020, 92, 4491-4497.	6.5	25
22	Aorta smooth muscle-on-a-chip reveals impaired mitochondrial dynamics as a therapeutic target for aortic aneurysm in bicuspid aortic valve disease. ELife, 2021, 10, .	6.0	24
23	Multiplexed aptasensing of food contaminants by using terminal deoxynucleotidyl transferase-produced primer-triggered rolling circle amplification: application to the colorimetric determination of enrofloxacin, lead (II), Escherichia coli O157:H7 and tropomyosin. Mikrochimica Acta, 2019, 186, 840.	5.0	23
24	Metabolome response to temperature-induced virulence gene expression in two genotypes of pathogenic Vibrio parahaemolyticus. BMC Microbiology, 2016, 16, 75.	3.3	20
25	Terminal deoxynucleotidyl transferase (TdT)-catalyzed homo-nucleotides-constituted ssDNA: Inducing tunable-size nanogap for core-shell plasmonic metal nanostructure and acting as Raman reporters for detection of Escherichia coli O157:H7. Biosensors and Bioelectronics, 2019, 141, 111419.	10.1	20
26	Association between fine particulate matter air pollution and acute aortic dissections: A time-series study in Shanghai, China. Chemosphere, 2020, 243, 125357.	8.2	16
27	pH-Operated Triplex DNA Device on MoS₂ Nanosheets. Langmuir, 2019, 35, 5050-5053.	3.5	15
28	MALDI-TOF Characterization of Protein Expression Mutation During Morphological Changes of Bacteria Under the Impact of Antibiotics. Analytical Chemistry, 2019, 91, 2352-2359.	6.5	14
29	The genome of a prasinoviruses-related freshwater virus reveals unusual diversity of phycodnaviruses. BMC Genomics, 2018, 19, 49.	2.8	10
30	Modeling aortic diseases using induced pluripotent stem cells. Stem Cells Translational Medicine, 2021, 10, 190-197.	3.3	5
31	Patient-derived microphysiological model identifies the therapeutic potential of metformin for thoracic aortic aneurysm. EBioMedicine, 2022, 81, 104080.	6.1	4
32	Real-Time Recombinase Polymerase Amplification Assay for the Detection of Vibrio cholerae in Seafood. Food Analytical Methods, 2017, 10, 2657-2666.	2.6	3
33	Perforated and Endothelialized Elastomeric Tubes for Vascular Modeling. Advanced Materials Technologies, 2019, 4, 1800741.	5.8	3
34	Three-Dimensional Printing of a Complex Aortic Anomaly. Journal of Visualized Experiments, 2018, , .	0.3	2
35	Plasma proteomic profiling reveals biomarkers associated with aortic dilation in patients with bicuspid aortic valve. Annals of Translational Medicine, 2021, 9, 1182-1182.	1.7	2
36	Rapid prototyping of PDMS microdevices via ÂµPLAT on nonplanar surfaces with flexible hollow-out mask. Biofabrication, 2021, 13, 035003.	7.1	1