Weijia Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Patient-derived microphysiological model identifies the therapeutic potential of metformin for thoracic aortic aneurysm. EBioMedicine, 2022, 81, 104080.	6.1	4
2	Modeling aortic diseases using induced pluripotent stem cells. Stem Cells Translational Medicine, 2021, 10, 190-197.	3.3	5
3	Rapid prototyping of PDMS microdevices via µPLAT on nonplanar surfaces with flexible hollow-out mask. Biofabrication, 2021, 13, 035003.	7.1	1
4	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
5	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
6	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
7	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
8	A Self-Calibrating Surface-Enhanced Raman Scattering-Active System for Bacterial Phenotype Detection. Analytical Chemistry, 2020, 92, 4491-4497.	6.5	25
9	Fractal SERS nanoprobes for multiplexed quantitative gene profiling. Biosensors and Bioelectronics, 2020, 156, 112130.	10.1	30
10	Hydrogel Bioink with Multilayered Interfaces Improves Dispersibility of Encapsulated Cells in Extrusion Bioprinting. ACS Applied Materials & Interfaces, 2019, 11, 30585-30595.	8.0	27
11	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
12	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
13	Perforated and Endothelialized Elastomeric Tubes for Vascular Modeling. Advanced Materials Technologies, 2019, 4, 1800741.	5.8	3
14	pH-Operated Triplex DNA Device on MoS ₂ Nanosheets. Langmuir, 2019, 35, 5050-5053.	3.5	15
15	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
16	Selfâ€Assembly of Enzymeâ€Like Nanofibrous Gâ€Molecular Hydrogel for Printed Flexible Electrochemical Sensors. Advanced Materials, 2018, 30, e1706887.	21.0	198
17	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
18	Three-Dimensional Printing of a Complex Aortic Anomaly. Journal of Visualized Experiments, 2018, , .	0.3	2

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19	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
20	In Situ Synthesis of Magnetic Mesoporous Phenolic Resin for the Selective Enrichment of Glycopeptides. Analytical Chemistry, 2018, 90, 7357-7363.	6.5	51
21	A General Strategy for Extrusion Bioprinting of Bioâ€Macromolecular Bioinks through Alginateâ€Templated Dualâ€Stage Crosslinking. Macromolecular Bioscience, 2018, 18, e1800127.	4.1	60
22	The genome of a prasinoviruses-related freshwater virus reveals unusual diversity of phycodnaviruses. BMC Genomics, 2018, 19, 49.	2.8	10
23	A hydrostatic pressure-driven passive micropump enhanced with siphon-based autofill function. Lab on A Chip, 2018, 18, 2167-2177.	6.0	37
24	Real-Time Recombinase Polymerase Amplification Assay for the Detection of Vibrio cholerae in Seafood. Food Analytical Methods, 2017, 10, 2657-2666.	2.6	3
25	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
26	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. Biomaterials, 2017, 139, 163-171.	11.4	140
27	Cancer-on-a-chip systems at the frontier of nanomedicine. Drug Discovery Today, 2017, 22, 1392-1399.	6.4	102
28	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
29	Microfluidic Air Sampler for Highly Efficient Bacterial Aerosol Collection and Identification. Analytical Chemistry, 2016, 88, 11504-11512.	6.5	30
30	Metabolome response to temperature-induced virulence gene expression in two genotypes of pathogenic Vibrio parahaemolyticus. BMC Microbiology, 2016, 16, 75.	3.3	20
31	Elastomeric free-form blood vessels for interconnecting organs on chip systems. Lab on A Chip, 2016, 16, 1579-1586.	6.0	79
32	Development of mercury (II) ion biosensors based on mercury-specific oligonucleotide probes. Biosensors and Bioelectronics, 2016, 75, 433-445.	10.1	83
33	Four novel algal virus genomes discovered from Yellowstone Lake metagenomes. Scientific Reports, 2015, 5, 15131.	3.3	44
34	Fate of Vibrio parahaemolyticus on shrimp after acidic electrolyzed water treatment. International Journal of Food Microbiology, 2014, 179, 50-56.	4.7	39
35	High-Concentration Preparation of Silver Nanowires: Restraining <i>in Situ</i> Nitric Acidic Etching by Steel-Assisted Polyol Method. Chemistry of Materials, 2008, 20, 1699-1704.	6.7	77
36	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