

Weijia Zhang

List of Publications by Year in descending order

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36
papers

2,149
citations

304368

22
h-index

329751

37
g-index

44
all docs

44
docs citations

44
times ranked

3888
citing authors

#	ARTICLE	IF	CITATIONS
1	Patient-derived microphysiological model identifies the therapeutic potential of metformin for thoracic aortic aneurysm. <i>EBioMedicine</i> , 2022, 81, 104080.	2.7	4
2	Modeling aortic diseases using induced pluripotent stem cells. <i>Stem Cells Translational Medicine</i> , 2021, 10, 190-197.	1.6	5
3	Rapid prototyping of PDMS microdevices via μ PLAT on nonplanar surfaces with flexible hollow-out mask. <i>Biofabrication</i> , 2021, 13, 035003.	3.7	1
4	Reversed-engineered human alveolar lung-on-a-chip model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	144
5	Plasma proteomic profiling reveals biomarkers associated with aortic dilation in patients with bicuspid aortic valve. <i>Annals of Translational Medicine</i> , 2021, 9, 1182-1182.	0.7	2
6	Aorta smooth muscle-on-a-chip reveals impaired mitochondrial dynamics as a therapeutic target for aortic aneurysm in bicuspid aortic valve disease. <i>ELife</i> , 2021, 10, .	2.8	24
7	Association between fine particulate matter air pollution and acute aortic dissections: A time-series study in Shanghai, China. <i>Chemosphere</i> , 2020, 243, 125357.	4.2	16
8	A Self-Calibrating Surface-Enhanced Raman Scattering-Active System for Bacterial Phenotype Detection. <i>Analytical Chemistry</i> , 2020, 92, 4491-4497.	3.2	25
9	Fractal SERS nanoprobe for multiplexed quantitative gene profiling. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112130.	5.3	30
10	Hydrogel Bioink with Multilayered Interfaces Improves Dispersibility of Encapsulated Cells in Extrusion Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30585-30595.	4.0	27
11	MALDI-TOF Characterization of Protein Expression Mutation During Morphological Changes of Bacteria Under the Impact of Antibiotics. <i>Analytical Chemistry</i> , 2019, 91, 2352-2359.	3.2	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 <i>Escherichia coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111419.	5.3	20
13	Perforated and Endothelialized Elastomeric Tubes for Vascular Modeling. <i>Advanced Materials Technologies</i> , 2019, 4, 1800741.	3.0	3
14	pH-Operated Triplex DNA Device on MoS ₂ Nanosheets. <i>Langmuir</i> , 2019, 35, 5050-5053.	1.6	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), <i>Escherichia coli</i> O157:H7 and tropomyosin. <i>Mikrochimica Acta</i> , 2019, 186, 840.	2.5	23
16	Self-Assembly of Enzyme-Like Nanofibrous Calcium Molecular Hydrogel for Printed Flexible Electrochemical Sensors. <i>Advanced Materials</i> , 2018, 30, e1706887.	11.1	198
17	Rapid and non-invasive detection and imaging of the hydrocolloid-injected prawns with low-field NMR and MRI. <i>Food Chemistry</i> , 2018, 242, 16-21.	4.2	91
18	Three-Dimensional Printing of a Complex Aortic Anomaly. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	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. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 311-320.	4.0	49
20	In Situ Synthesis of Magnetic Mesoporous Phenolic Resin for the Selective Enrichment of Glycopeptides. <i>Analytical Chemistry</i> , 2018, 90, 7357-7363.	3.2	51
21	A General Strategy for Extrusion Bioprinting of Bio- ϵ Macromolecular Bioinks through Alginate- ϵ Templated Dual- ϵ Stage Crosslinking. <i>Macromolecular Bioscience</i> , 2018, 18, e1800127.	2.1	60
22	The genome of a prasinoviruses-related freshwater virus reveals unusual diversity of phycodnaviruses. <i>BMC Genomics</i> , 2018, 19, 49.	1.2	10
23	A hydrostatic pressure-driven passive micropump enhanced with siphon-based autofill function. <i>Lab on A Chip</i> , 2018, 18, 2167-2177.	3.1	37
24	Real-Time Recombinase Polymerase Amplification Assay for the Detection of <i>Vibrio cholerae</i> in Seafood. <i>Food Analytical Methods</i> , 2017, 10, 2657-2666.	1.3	3
25	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2293-E2302.	3.3	570
26	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. <i>Biomaterials</i> , 2017, 139, 163-171.	5.7	140
27	Cancer-on-a-chip systems at the frontier of nanomedicine. <i>Drug Discovery Today</i> , 2017, 22, 1392-1399.	3.2	102
28	A Low-Cost and High Sensitive Paper-Based Microfluidic Device for Rapid Detection of Glucose in Fruit. <i>Food Analytical Methods</i> , 2017, 10, 666-674.	1.3	26
29	Microfluidic Air Sampler for Highly Efficient Bacterial Aerosol Collection and Identification. <i>Analytical Chemistry</i> , 2016, 88, 11504-11512.	3.2	30
30	Metabolome response to temperature-induced virulence gene expression in two genotypes of pathogenic <i>Vibrio parahaemolyticus</i> . <i>BMC Microbiology</i> , 2016, 16, 75.	1.3	20
31	Elastomeric free-form blood vessels for interconnecting organs on chip systems. <i>Lab on A Chip</i> , 2016, 16, 1579-1586.	3.1	79
32	Development of mercury (II) ion biosensors based on mercury-specific oligonucleotide probes. <i>Biosensors and Bioelectronics</i> , 2016, 75, 433-445.	5.3	83
33	Four novel algal virus genomes discovered from Yellowstone Lake metagenomes. <i>Scientific Reports</i> , 2015, 5, 15131.	1.6	44
34	Fate of <i>Vibrio parahaemolyticus</i> on shrimp after acidic electrolyzed water treatment. <i>International Journal of Food Microbiology</i> , 2014, 179, 50-56.	2.1	39
35	High-Concentration Preparation of Silver Nanowires: Restraining <i>in Situ</i> Nitric Acidic Etching by Steel-Assisted Polyol Method. <i>Chemistry of Materials</i> , 2008, 20, 1699-1704.	3.2	77
36	Synergy between Crystal Strain and Surface Energy in Morphological Evolution of Five-Fold-Twinned Silver Crystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 15581-15588.	6.6	84