

# Chao Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,132  
citations

394421

19  
h-index

434195

31  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a low-cost paper-based ELISA method for rapid Escherichia coli O157:H7 detection. Analytical Biochemistry, 2018, 542, 58-62.	2.4	144
2	Comparison of antioxidant abilities of magnolol and honokiol to scavenge radicals and to protect DNA. Biochimie, 2011, 93, 1755-1760.	2.6	70
3	Development of a self-priming PDMS/paper hybrid microfluidic chip using mixed-dye-loaded loop-mediated isothermal amplification assay for multiplex foodborne pathogens detection. Analytica Chimica Acta, 2018, 1040, 81-89.	5.4	63
4	Colorimetric immunoassay for Listeria monocytogenes by using core gold nanoparticles, silver nanoclusters as oxidase mimetics, and aptamer-conjugated magnetic nanoparticles. Mikrochimica Acta, 2018, 185, 360.	5.0	57
5	Colorimetric immunoassay for rapid detection of Staphylococcus aureus based on etching-enhanced peroxidase-like catalytic activity of gold nanoparticles. Mikrochimica Acta, 2020, 187, 504.	5.0	46
6	Selective turn-on fluorescence detection of Vibrio parahaemolyticus in food based on charge-transfer between CdSe/ZnS quantum dots and gold nanoparticles. Food Control, 2017, 80, 380-387.	5.5	45
7	Colorimetric Immunoassay for Rapid Detection of <i>Vibrio parahemolyticus</i> Based on Mn <sup>2+</sup> Mediates the Assembly of Gold Nanoparticles. Journal of Agricultural and Food Chemistry, 2018, 66, 9516-9521.	5.2	44
8	A multicolorimetric assay for rapid detection of Listeria monocytogenes based on the etching of gold nanorods. Analytica Chimica Acta, 2019, 1048, 154-160.	5.4	44
9	Colorimetric immunoassay for rapid detection of Vibrio parahaemolyticus. Mikrochimica Acta, 2017, 184, 4785-4792.	5.0	40
10	Rapid and Quantitative Detection of <i>Vibrio parahemolyticus</i> by the Mixed-Dye-Based Loop-Mediated Isothermal Amplification Assay on a Self-Priming Compartmentalization Microfluidic Chip. Journal of Agricultural and Food Chemistry, 2017, 65, 11312-11319.	5.2	35
11	A novel visual-mixed-dye for LAMP and its application in the detection of foodborne pathogens. Analytical Biochemistry, 2019, 574, 1-6.	2.4	35
12	A novel fluorescence method for the rapid and effective detection of <i>Listeria monocytogenes</i> using aptamer-conjugated magnetic nanoparticles and aggregation-induced emission dots. Analyst, The, 2020, 145, 3857-3863.	3.5	29
13	A sandwich immunoassay for brucellosis diagnosis based on immune magnetic beads and quantum dots. Journal of Pharmaceutical and Biomedical Analysis, 2017, 141, 79-86.	2.8	28
14	A Rapid Detection Method of Brucella with Quantum Dots and Magnetic Beads Conjugated with Different Polyclonal Antibodies. Nanoscale Research Letters, 2017, 12, 179.	5.7	28
15	Rapid visualized isothermal nucleic acid testing of Vibrio parahaemolyticus by polymerase spiral reaction. Analytical and Bioanalytical Chemistry, 2020, 412, 93-101.	3.7	25
16	Simultaneous Detection of Three Foodborne Pathogens Based on Immunomagnetic Nanoparticles and Fluorescent Quantum Dots. ACS Omega, 2020, 5, 23070-23080.	3.5	25
17	One-step colorimetric detection of Staphylococcus aureus based on target-induced shielding against the peroxidase mimicking activity of aptamer-functionalized gold-coated iron oxide nanocomposites. Talanta, 2021, 232, 122448.	5.5	23
18	Paper chip-based colorimetric assay for detection of Salmonella typhimurium by combining aptamer-modified Fe <sub>3</sub> O <sub>4</sub> @Ag nanoprobe and urease activity inhibition. Mikrochimica Acta, 2020, 187, 554.	5.0	21

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19	A concise detection strategy of <i>Staphylococcus aureus</i> using N-Succinyl-Chitosan-doped bacteria-imprinted composite film and AIE fluorescence sensor. <i>Journal of Hazardous Materials</i> , 2022, 423, 126934.	12.4	21
20	Colorimetric Immunoassay for the Detection of <i>Staphylococcus aureus</i> by Using Magnetic Carbon Dots and Silver Nanoclusters as o-Phenylenediamine-Oxidase Mimetics. <i>Food Analytical Methods</i> , 2020, 13, 833-838.	2.6	19
21	Colorimetric detection of <i>Staphylococcus aureus</i> using gold nanorods labeled with yolk immunoglobulin and urease, magnetic beads, and a phenolphthalein impregnated test paper. <i>Mikrochimica Acta</i> , 2019, 186, 611.	5.0	18
22	Bovine serum albumin-templated MnO <sub>2</sub> nanoparticles are peroxidase mimics for glucose determination by luminol chemiluminescence. <i>Microchemical Journal</i> , 2019, 149, 104050.	4.5	18
23	A multicolor sensing system for simultaneous detection of four foodborne pathogenic bacteria based on Fe <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> nanocomposites and the etching of gold nanorods. <i>Food and Chemical Toxicology</i> , 2021, 149, 112035.	3.6	15
24	Promising application of polyoxometalates in the treatment of cancer, infectious diseases and Alzheimer's disease. <i>Journal of Biological Inorganic Chemistry</i> , 2022, 27, 405-419.	2.6	14
25	Diaryl-1,2,4-oxadiazole antioxidants: Synthesis and properties of inhibiting the oxidation of DNA and scavenging radicals. <i>Biochimie</i> , 2013, 95, 842-849.	2.6	13
26	Enzyme-free and label-free detection of <i>Staphylococcus aureus</i> based on target-inhibited fluorescence signal recovery. <i>Food and Chemical Toxicology</i> , 2021, 150, 112071.	3.6	12
27	Label-Free Detection of <i>Staphylococcus aureus</i> Based on Bacteria-Imprinted Polymer and Turn-on Fluorescence Probes. <i>ACS Applied Bio Materials</i> , 2021, 4, 420-427.	4.6	12
28	Detection of four foodborne pathogens based on magnetic separation multiplex PCR and capillary electrophoresis. <i>Biotechnology Journal</i> , 2022, 17, e2100335.	3.5	12
29	Rapid detection of <i>Vibrio parahaemolyticus</i> using magnetic nanobead-based immunoseparation and quantum dot-based immunofluorescence. <i>RSC Advances</i> , 2021, 11, 38638-38647.	3.6	12
30	Fluorescence signal amplification assay for the detection of <i>B. melitensis</i> 16M, based on peptide-mediated magnetic separation technology and a AuNP-mediated bio-barcode assembled by quantum dot technology. <i>Analyst</i> , 2019, 144, 2704-2715.	3.5	11
31	Analyte-triggered autoacceleration of 4-mercaptophenylboronic acid-mediated aggregation of silver nanoparticles for facile and one-step ratiometric colorimetric method for detection of ascorbic acid. <i>Microchemical Journal</i> , 2020, 158, 105122.	4.5	11
32	Multi-functional MnO <sub>2</sub> -doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles as an artificial enzyme for the colorimetric detection of bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3135-3140.	3.7	11
33	Rapid and selective recognition of <i>Vibrio parahaemolyticus</i> assisted by perfluorinated alkoxysilane modified molecularly imprinted polymer film. <i>RSC Advances</i> , 2020, 10, 14305-14312.	3.6	11
34	Applications of hybridization chain reaction optical detection incorporating nanomaterials: A review. <i>Analytica Chimica Acta</i> , 2022, 1190, 338930.	5.4	11
35	Modification by ferrocene: An approach to enhance antioxidant ability of aianthoidol to protect DNA. <i>Biochimie</i> , 2012, 94, 1805-1811.	2.6	10
36	A colorimetric sensor for <i>Staphylococcus aureus</i> detection based on controlled click chemical-induced aggregation of gold nanoparticles and immunomagnetic separation. <i>Mikrochimica Acta</i> , 2022, 189, 104.	5.0	10

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37	Multiplex detection of foodborne pathogens using inductively coupled plasma mass spectrometry, magnetic separation and metal nanoclusters-mediated signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131581.	7.8	10
38	Colorimetric determination of <i>Listeria monocytogenes</i> using aptamer and urease dual-labeled magnetic nanoparticles and cucurbit[7]uril-mediated supramolecular assembly of gold nanoparticle. <i>Mikrochimica Acta</i> , 2022, 189, 41.	5.0	8
39	Genotoxicity and acute and subchronic toxicity studies of a bioactive polyoxometalate in Wistar rats. <i>BMC Pharmacology &amp; Toxicology</i> , 2017, 18, 26.	2.4	7
40	Multiferroicity in the YFeO <sub>3</sub> crystal. <i>Functional Materials Letters</i> , 2020, 13, 1950088.	1.2	7
41	Detection of formaldehyde (HCHO) in solution based on the autocatalytic oxidation reaction of o-phenylenediamine (OPD) induced by silver ions (Ag <sup>+</sup> ). <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 3387-3397.	2.2	7
42	A detection method of <i>Escherichia coli</i> O157:H7 based on immunomagnetic separation and aptamers-gold nanoparticle probe quenching Rhodamine B's fluorescence. <i>Food Science and Biotechnology</i> , 2021, 30, 1129-1138.	2.6	7
43	Synthesis of hydroxyferrocifen and its abilities to protect DNA and to scavenge radicals. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 1169-1176.	2.6	6
44	Preparation and identification of chicken egg yolk immunoglobulins against human enterovirus 71 for diagnosis of hand-foot-and-mouth disease. <i>Analytical Biochemistry</i> , 2019, 573, 44-50.	2.4	6
45	Production of Phage Display-Derived Peptide and the Application for Detecting <i>Vibrio parahaemolyticus</i> by Combined PCR Technology. <i>Food Analytical Methods</i> , 2020, 13, 1906-1917.	2.6	6
46	Preparation of IgY Oriented Conjugated Fe <sub>3</sub> O <sub>4</sub> MNPs as Immunomagnetic Nanoprobe for Increasing Enrichment Efficiency of <i>Staphylococcus aureus</i> Based on Adjusting the pH of the Solution System. <i>Frontiers in Public Health</i> , 2022, 10, .	2.7	5
47	Colorimetric detection of <i>Salmonella typhimurium</i> based on hexadecyl trimethyl ammonium bromide-induced supramolecular assembly of β-cyclodextrin-capped gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6069-6076.	3.7	5
48	Multi-functional magnetic molecular imprinting probe for visual detection of IgY antibodies. <i>Mikrochimica Acta</i> , 2021, 188, 378.	5.0	4
49	Rapid qualitative and quantitative detection of <i>Salmonella typhimurium</i> using a single-step dual photometric/fluorometric assay. <i>Mikrochimica Acta</i> , 2022, 189, 218.	5.0	4
50	Smoking cessation in late life is associated with increased risk of all-cause mortality amongst oldest old people: a community-based prospective cohort study. <i>Age and Ageing</i> , 2021, 50, 1298-1305.	1.6	3
51	Feasibility Study on Facile and One-step Colorimetric Determination of Glutathione by Exploiting Oxidase-like Activity of Fe <sub>3</sub> O <sub>4</sub> -MnO <sub>2</sub> Nanocomposites. <i>Analytical Sciences</i> , 2021, 37, 1355-1360.	1.6	2
52	The multi-ferroelectricity in neodymium ferrite with perovskite structure. <i>Journal of Materials Science</i> , 2021, 56, 10488-10493.	3.7	2