

Jia-Yu Wan

List of Publications by Year in descending order

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33
papers

596
citations

567281

15
h-index

642732

23
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35
all docs

35
docs citations

35
times ranked

568
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive detection of pathogenic bacteria by CRISPR/Cas12a coupling with a primer exchange reaction. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130630.	7.8	48
2	Colorimetric detection of microRNA based hybridization chain reaction for signal amplification and enzyme for visualization. <i>Analytical Biochemistry</i> , 2017, 528, 7-12.	2.4	46
3	Hemin-incorporated nanoflowers as enzyme mimics for colorimetric detection of foodborne pathogenic bacteria. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3802-3807.	2.2	41
4	CRISPR/Cas12a and immuno-RCA based electrochemical biosensor for detecting pathogenic bacteria. <i>Journal of Electroanalytical Chemistry</i> , 2021, 901, 115755.	3.8	36
5	Visual detection of nucleic acids based on lateral flow biosensor and hybridization chain reaction amplification. <i>Talanta</i> , 2017, 164, 432-438.	5.5	35
6	An electrochemical biosensor based on methylene blue-loaded nanocomposites as signal-amplifying tags to detect pathogenic bacteria. <i>Analyst, The</i> , 2020, 145, 4328-4334.	3.5	35
7	Electrochemical biosensor for detecting pathogenic bacteria based on a hybridization chain reaction and CRISPR-Cas12a. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1073-1080.	3.7	32
8	Colorimetric detection of microRNA based on DNAzyme and nuclease-assisted catalytic hairpin assembly signal amplification. <i>Molecular and Cellular Probes</i> , 2018, 38, 13-18.	2.1	31
9	An electrochemical aptasensor based on cocoon-like DNA nanostructure signal amplification for the detection of <i>Escherichia coli</i> O157:H7. <i>Analyst, The</i> , 2020, 145, 7340-7348.	3.5	30
10	Immunoassay for pathogenic bacteria using platinum nanoparticles and a hand-held hydrogen detector as transducer. Application to the detection of <i>Escherichia coli</i> O157:H7. <i>Mikrochimica Acta</i> , 2019, 186, 296.	5.0	26
11	Disposable syringe-based visual immunotest for pathogenic bacteria based on the catalase mimicking activity of platinum nanoparticle-concanavalin A hybrid nanoflowers. <i>Mikrochimica Acta</i> , 2019, 186, 57.	5.0	23
12	Point-of-care assay to detect foodborne pathogenic bacteria using a low-cost disposable medical infusion extension line as readout and MnO ₂ nanoflowers. <i>Food Control</i> , 2019, 98, 399-404.	5.5	22
13	A pregnancy test strip for detection of pathogenic bacteria by using concanavalin A-human chorionic gonadotropin-Cu ₃ (PO ₄) ₂ hybrid nanoflowers, magnetic separation, and smartphone readout. <i>Mikrochimica Acta</i> , 2018, 185, 464.	5.0	21
14	Lateral flow nucleic acid biosensor for sensitive detection of microRNAs based on the dual amplification strategy of duplex-specific nuclease and hybridization chain reaction. <i>PLoS ONE</i> , 2017, 12, e0185091.	2.5	20
15	Ferrocene-functionalized nanocomposites as signal amplification probes for electrochemical immunoassay of <i>Salmonella typhimurium</i> . <i>Mikrochimica Acta</i> , 2020, 187, 600.	5.0	17
16	Sandwich immunoassay based on antimicrobial peptide-mediated nanocomposite pair for determination of <i>Escherichia coli</i> O157:H7 using personal glucose meter as readout. <i>Mikrochimica Acta</i> , 2020, 187, 220.	5.0	16
17	An electrochemical biosensor for the detection of pathogenic bacteria based on dual signal amplification of Cu ₃ (PO ₄) ₂ -mediated click chemistry and DNAzymes. <i>Analyst, The</i> , 2021, 146, 4841-4847.	3.5	14
18	Integration of transcriptomics, proteomics and metabolomics data to reveal the biological mechanisms of abrin injury in human lung epithelial cells. <i>Toxicology Letters</i> , 2019, 312, 1-10.	0.8	11

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19	Point-of-care detection of pathogenic bacteria based on pregnancy test strips and metal-organic frameworks. <i>Microchemical Journal</i> , 2022, 175, 107142.	4.5	11
20	Proteomic Study of Differential Protein Expression in Mouse Lung Tissues after Aerosolized Ricin Poisoning. <i>International Journal of Molecular Sciences</i> , 2014, 15, 7281-7292.	4.1	9
21	Modified beacon probe assisted dual signal amplification for visual detection of microRNA. <i>Analytical Biochemistry</i> , 2018, 550, 68-71.	2.4	8
22	Integrative transcriptomics, proteomics, and metabolomics data analysis exploring the injury mechanism of ricin on human lung epithelial cells. <i>Toxicology in Vitro</i> , 2019, 60, 160-172.	2.4	8
23	Immunoassay for foodborne pathogenic bacteria using magnetic composites Ab@Fe ₃ O ₄ , signal composites Ap@PtNp, and thermometer readings. <i>Mikrochimica Acta</i> , 2020, 187, 679.	5.0	8
24	Visual assay of <i>Escherichia coli</i> O157:H7 based on an isothermal strand displacement and hybrid chain reaction amplification strategy. <i>Analytical Methods</i> , 2021, 13, 3379-3385.	2.7	8
25	Catabolite control protein A is an important regulator of metabolism in <i>Streptococcus suis</i> type 2. <i>Biomedical Reports</i> , 2014, 2, 709-712.	2.0	7
26	Dual Aptamer-Copper (II) Phosphate Nanocomposite-Based Point-of-Care Biosensor for the Determination of <i>Escherichia coli</i> O157:H7 through Pressure Monitoring with a Hand-Held Barometer. <i>Analytical Letters</i> , 2021, 54, 1603-1615.	1.8	6
27	Point-of-care detection of 16S rRNA of <i>Staphylococcus aureus</i> based on multiple biotin-labeled DNA probes. <i>Molecular and Cellular Probes</i> , 2019, 47, 101427.	2.1	5
28	Polymorphism of prion protein gene in Arctic fox (<i>Vulpes lagopus</i>). <i>Molecular Biology Reports</i> , 2009, 36, 1299-1303.	2.3	4
29	Recombinant Ricin Toxin Binding Subunit B (RTB) Stimulates Production of TNF- α by Mouse Macrophages Through Activation of TLR4 Signaling Pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 526129.	3.5	4
30	A sensitive biosensor for determination of pathogenic bacteria using aldehyde dehydrogenase signaling system. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7955-7962.	3.7	3
31	16S rRNA-functionalized multi-HCR concatemers in a signal amplification nanostructure for visual detection of <i>Salmonella</i> . <i>Biotechnology and Applied Biochemistry</i> , 2020, 68, 560-567.	3.1	3
32	A Colorimetric Immunosensor Based on Hemin@MI Nanozyme Composites, with Peroxidase-like Activity for Point-of-care Testing of Pathogenic <i>E. coli</i> O157:H7. <i>Analytical Sciences</i> , 2021, 37, 941-947.	1.6	3
33	Catabolite control protein A has an important role in the metabolic regulation of <i>Streptococcus suis</i> type 2 according to iTRAQ-based quantitative proteomic analysis. <i>Molecular Medicine Reports</i> , 2015, 12, 5967-5972.	2.4	2