Wenchao Dou

List of Publications by Year
in descending order

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38 papers	883 citations	471509 17 h-index	477307 29 g-index
39 all docs	39 docs citations	39 times ranked	1005 citing authors

#	Article	IF	Citations
1	Portable and quantitative point-of-care monitoring of Escherichia coli O157:H7 using a personal glucose meter based on immunochromatographic assay. Biosensors and Bioelectronics, 2018, 107, 266-271.	10.1	77
2	A sandwich electrochemical immunosensor for Salmonella pullorum and Salmonella gallinarum based on a screen-printed carbon electrode modified with an ionic liquid and electrodeposited gold nanoparticles. Mikrochimica Acta, 2015, 182, 2267-2275.	5.0	64
3	Amperometric immunoassay for the detection of Salmonella pullorum using a screen - printed carbon electrode modified with gold nanoparticle-coated reduced graphene oxide and immunomagnetic beads. Mikrochimica Acta, 2016, 183, 757-764.	5.0	60
4	Immunochromatographic assay using brightly colored silica nanoparticles as visible label for point-of-care detection of clenbuterol. Sensors and Actuators B: Chemical, 2018, 266, 392-399.	7.8	47
5	A sensitive and regenerative electrochemical immunosensor for quantitative detection ofEscherichia coliO157:H7 based on stable polyaniline coated screen-printed carbon electrode and rGO-NR-Au@Pt. Analytical Methods, 2019, 11, 1475-1482.	2.7	47
6	Electrochemical sandwich immunoassay for Escherichia coli O157:H7 based on the use of magnetic nanoparticles and graphene functionalized with electrocatalytically active Au@Pt core/shell nanoparticles. Mikrochimica Acta, 2018, 185, 455.	5.0	42
7	An optical and rapid sandwich immunoassay method for detection of Salmonella pullorum and Salmonella gallinarum based on immune blue silica nanoparticles and magnetic nanoparticles. Sensors and Actuators B: Chemical, 2016, 226, 69-75.	7.8	39
8	A non-enzymatic electrochemical immunoassay for quantitative detection of Escherichia coli O157:H7 using Au@Pt and graphene. Analytical Biochemistry, 2018, 559, 34-43.	2.4	37
9	An electrochemical immunoassay for Escherichia coli O157:H7 using double functionalized Au@Pt/SiO2 nanocomposites and immune magnetic nanoparticles. Talanta, 2018, 182, 354-362.	5.5	35
10	Immunosensor based on electrodeposition of gold-nanoparticles and ionic liquid composite for detection of Salmonella pullorum. Journal of Microbiological Methods, 2014, 106, 110-118.	1.6	34
11	A sandwich electrochemical immunoassay for Salmonella pullorum and Salmonella gallinarum based on a AuNPs/SiO₂/Fe₃O₄adsorbing antibody and 4 channel screen printed carbon electrode electrodeposited gold nanoparticles. RSC Advances, 2015, 5, 74548-74556.	3.6	34
12	Electrochemical immunosensor for Enterobacter sakazakii detection based on electrochemically reduced graphene oxideâ€“gold nanoparticle/ionic liquid modified electrode. Journal of Electroanalytical Chemistry, 2015, 756, 43-48.	3.8	32
13	Core-shell red silica nanoparticles based immunochromatographic assay for detection of Escherichia coli O157:H7. Analytica Chimica Acta, 2018, 1038, 97-104.	5.4	31
14	Blue silica nanoparticle-based colorimetric immunoassay for detection of Salmonella pullorum. Analytical Methods, 2015, 7, 8647-8654.	2.7	23
15	A nonenzymatic optical immunoassay strategy for detection of Salmonella infection based on blue silica nanoparticles. Analytica Chimica Acta, 2015, 898, 109-115.	5.4	23
16	In situ formation of fluorescent silicon-containing polymer dots for alkaline phosphatase activity detection and immunoassay. Science China Chemistry, 2020, 63, 554-560.	8.2	22
17	Rapid electrochemical quantification of Salmonella Pullorum and Salmonella Gallinarum based on glucose oxidase and antibody-modified silica nanoparticles. Analytical and Bioanalytical Chemistry, 2017, 409, 4139-4147.	3.7	18
18	Simultaneous Detection of Pathogenic Bacteria Using Agglutination Test Based on Colored Silica Nanoparticles. Current Pharmaceutical Biotechnology, 2015, 16, 716-723.	1.6	18

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19	Nano-labeled materials as detection tags for signal amplification in immunochromatographic assay. TrAC - Trends in Analytical Chemistry, 2022, 154, 116673.	11.4	18
20	A silica nanoparticle based 2-color immunochromatographic assay for simultaneous determination of clenbuterol and ractopamine. Mikrochimica Acta, 2019, 186, 421.	5.0	17
21	Voltammetric sandwich immunoassay for Cronobacter sakazakii using a screen-printed carbon electrode modified with horseradish peroxidase, reduced graphene oxide, thionine and gold nanoparticles. Mikrochimica Acta, 2018, 185, 45.	5.0	15
22	A sensitive and quantitative immunochromatographic assay for HBsAg based on novel red silica nanoparticles. Analytical Methods, 2019, 11, 268-275.	2.7	15
23	A novel immunochromatographic assay using ultramarine blue particles as visible label for quantitative detection of hepatitis B virus surface antigen. Analytica Chimica Acta, 2020, 1098, 140-147.	5.4	15
24	An ultrasensitive sandwich immunoassay with a glucometer readout for portable and quantitative detection of Cronobacter sakazakii. Analytical Methods, 2017, 9, 6286-6292.	2.7	14
25	Enzyme-functionalized electrochemical immunosensor based on electrochemically reduced graphene oxide and polyvinyl alcohol-polydimethylsiloxane for the detection of Salmonella pullorum & Salmonella gallinarum. RSC Advances, 2014, 4, 57733-57742.	3.6	12
26	Photometric sandwich immunoassay for Salmonella pullorum and Salmonella gallinarum using horseradish peroxidase and magnetic silica nanoparticles. Mikrochimica Acta, 2017, 184, 1873-1880.	5.0	12
27	Ultramarine blue nanoparticles as a label for immunochromatographic on-site determination of ractopamine. Mikrochimica Acta, 2020, 187, 285.	5.0	12
28	A new synthesis method for bright monodispersed core-shell colored silica submicron particles. Journal of Sol-Gel Science and Technology, 2018, 85, 76-83.	2.4	11
29	A Label-Free Electrochemical Immunosensor Modified with AuNPs for Quantitative Detection of Escherichia coli O157:H7. Journal of Electronic Materials, 2019, 48, 7960-7969.	2.2	11
30	Highly sensitive colorimetric immunoassay for Escherichia coli O157:H7 based on probe of pseudo enzyme and dual signal amplification. Analytical Methods, 2018, 10, 4301-4309.	2.7	8
31	Electropolymerization of Stable Leucoemeraldine Base Polyaniline Film and Application for Quantitative Detection of Escherichia coli O157:H7. Journal of Electronic Materials, 2018, 47, 6507-6517.	2.2	7
32	Helical Liquid Crystal Elastomer Miniature Robot with Photocontrolled Locomotion. Advanced Materials Technologies, 2022, 7, .	5.8	7
33	Determination of trace aflatoxin M1 (AFM1) residue in milk by an immunochromatographic assay based on (PEI/PSS)4 red silica nanoparticles. Mikrochimica Acta, 2020, 187, 658.	5.0	6
34	Disposable Immunosensor forEscherichia ColiO157:H7 Based on a Multi-Walled Carbon Nanotube-Sodium Alginate Nanocomposite Film Modified Screen-Printed Carbon Electrode. Analytical Letters, 2013, 46, 2690-2704.	1.8	5
35	A Au@Pt bimetallic nanoparticle and blue silica nanoparticle nanocomposite as a probe of immunochromatographic assay for HBsAg detection. Analytical Methods, 2019, 11, 6103-6110.	2.7	5
36	Reconfigurable Soft Actuators with Multipleâ€Stimuli Responses. Macromolecular Rapid Communications, 2020, 41, 2000313.	3.9	5

#	Article	IF	Citations
37	High-sensitivity detection of two H7 subtypes of avian influenza viruses (AIVs) by immunochromatographic assay with highly chromatic red silica nanoparticles. Analytical Methods, 2021, 13, 2313-2319.	2.7	3
38	Preparing high chroma colored silica nanoparticles based on layer-by-layer self-assembled technique. Journal of Sol-Gel Science and Technology, 0, , 1.	2.4	2