Chongwen Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

		94433	133252
59	4,046	37	59
papers	citations	h-index	g-index

59	59	59	3656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic SERS Strip for Sensitive and Simultaneous Detection of Respiratory Viruses. ACS Applied Materials & Interfaces, 2019, 11, 19495-19505.	8.0	207
2	Development of a SERS-based lateral flow immunoassay for rapid and ultra-sensitive detection of anti-SARS-CoV-2 IgM/IgG in clinical samples. Sensors and Actuators B: Chemical, 2021, 329, 129196.	7.8	206
3	Facile Synthesis of Au-Coated Magnetic Nanoparticles and Their Application in Bacteria Detection via a SERS Method. ACS Applied Materials & Interfaces, 2016, 8, 19958-19967.	8.0	196
4	Dual-SERS biosensor for one-step detection of microRNAs in exosome and residual plasma of blood samples for diagnosing pancreatic cancer. Biosensors and Bioelectronics, 2019, 130, 204-213.	10.1	193
5	Fe3O4@Ag magnetic nanoparticles for microRNA capture and duplex-specific nuclease signal amplification based SERS detection in cancer cells. Biosensors and Bioelectronics, 2016, 79, 574-580.	10.1	180
6	Magnetically Assisted Surface-Enhanced Raman Spectroscopy for the Detection of Staphylococcus aureus Based on Aptamer Recognition. ACS Applied Materials & Interfaces, 2015, 7, 20919-20929.	8.0	162
7	Personalized detection of circling exosomal PD-L1 based on Fe3O4@TiO2 isolation and SERS immunoassay. Biosensors and Bioelectronics, 2020, 148, 111800.	10.1	150
8	Dual-recognition surface-enhanced Raman scattering(SERS)biosensor for pathogenic bacteria detection by using vancomycin-SERS tags and aptamer-Fe3O4@Au. Analytica Chimica Acta, 2019, 1077, 288-296.	5.4	142
9	A rapid SERS method for label-free bacteria detection using polyethylenimine-modified Au-coated magnetic microspheres and Au@Ag nanoparticles. Analyst, The, 2016, 141, 6226-6238.	3.5	134
10	Sensitive and Simultaneous Detection of SARS-CoV-2-Specific IgM/IgG Using Lateral Flow Immunoassay Based on Dual-Mode Quantum Dot Nanobeads. Analytical Chemistry, 2020, 92, 15542-15549.	6.5	134
11	Sensitive and specific detection of clinical bacteria via vancomycin-modified Fe₃O₄@Au nanoparticles and aptamer-functionalized SERS tags. Journal of Materials Chemistry B, 2018, 6, 3751-3761.	5.8	101
12	Magnetic quantum dot based lateral flow assay biosensor for multiplex and sensitive detection of protein toxins in food samples. Biosensors and Bioelectronics, 2019, 146, 111754.	10.1	98
13	Fe3O4@Au SERS tags-based lateral flow assay for simultaneous detection of serum amyloid A and C-reactive protein in unprocessed blood sample. Sensors and Actuators B: Chemical, 2020, 320, 128350.	7.8	94
14	Dual-color magnetic-quantum dot nanobeads as versatile fluorescent probes in test strip for simultaneous point-of-care detection of free and complexed prostate-specific antigen. Biosensors and Bioelectronics, 2019, 145, 111719.	10.1	87
15	Combined use of vancomycin-modified Ag-coated magnetic nanoparticles and secondary enhanced nanoparticles for rapid surface-enhanced Raman scattering detection of bacteria. International Journal of Nanomedicine, 2018, Volume 13, 1159-1178.	6.7	82
16	Polyethylenimine-interlayered coreâ€“shellâ€“satellite 3D magnetic microspheres as versatile SERS substrates. Nanoscale, 2015, 7, 18694-18707.	5.6	79
17	Ultrasensitive and Simultaneous Detection of Two Specific SARS-CoV-2 Antigens in Human Specimens Using Direct/Enrichment Dual-Mode Fluorescence Lateral Flow Immunoassay. ACS Applied Materials & Interfaces, 2021, 13, 40342-40353.	8.0	78
18	Layer-by-layer assembly of magnetic-core dual quantum dot-shell nanocomposites for fluorescence lateral flow detection of bacteria. Nanoscale, 2020, 12, 795-807.	5.6	77

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19	Portable and multiplexed lateral flow immunoassay reader based on SERS for highly sensitive point-of-care testing. Biosensors and Bioelectronics, 2020, 168, 112524.	10.1	77
20	Magnetic immunoassay for cancer biomarker detection based on surface-enhanced resonance Raman scattering from coupled plasmonic nanostructures. Biosensors and Bioelectronics, 2016, 84, 15-21.	10.1	66
21	Polyethylenimine-interlayered silver-shell magnetic-core microspheres as multifunctional SERS substrates. Journal of Materials Chemistry C, 2015, 3, 8684-8693.	5.5	65
22	Ultrasensitive and multiplex detection of four pathogenic bacteria on a bi-channel lateral flow immunoassay strip with three-dimensional membrane-like SERS nanostickers. Biosensors and Bioelectronics, 2022, 214, 114525.	10.1	62
23	A universal SERS-label immunoassay for pathogen bacteria detection based on Fe3O4@Au-aptamer separation and antibody-protein A orientation recognition. Analytica Chimica Acta, 2021, 1160, 338421.	5.4	61
24	Sonochemical synthesis of highly branched flower-like Fe3O4@SiO2@Ag microcomposites and their application as versatile SERS substrates. Nanoscale, 2016, 8, 19816-19828.	5.6	59
25	Non-invasive detection of hepatocellular carcinoma serum metabolic profile through surface-enhanced Raman spectroscopy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2475-2484.	3.3	58
26	Development of an ultrasensitive fluorescent immunochromatographic assay based on multilayer quantum dot nanobead for simultaneous detection of SARS-CoV-2 antigen and influenza A virus. Sensors and Actuators B: Chemical, 2021, 345, 130372.	7.8	58
27	In Situ Exosomal MicroRNA Determination by Target-Triggered SERS and Fe₃O₄@TiO₂-Based Exosome Accumulation. ACS Sensors, 2021, 6, 852-862.	7.8	56
28	Rapid field determination of SARS-CoV-2 by a colorimetric and fluorescent dual-functional lateral flow immunoassay biosensor. Sensors and Actuators B: Chemical, 2022, 351, 130897.	7.8	56
29	Rapid Enrichment and Ultrasensitive Detection of Influenza A Virus in Human Specimen using Magnetic Quantum Dot Nanobeads Based Test Strips. Sensors and Actuators B: Chemical, 2020, 325, 128780.	7.8	55
30	Ultrasensitive multichannel immunochromatographic assay for rapid detection of foodborne bacteria based on two-dimensional film-like SERS labels. Journal of Hazardous Materials, 2022, 437, 129347.	12.4	54
31	Synthesis of raspberry-like nanogapped Fe₃O₄@Au nanocomposites for SERS-based lateral flow detection of multiple tumor biomarkers. Journal of Materials Chemistry C, 2020, 8, 12854-12864.	5.5	49
32	Sensitive detection of Escherichia coli O157:H7 and Salmonella typhimurium in food samples using two-channel fluorescence lateral flow assay with liquid Si@quantum dot. Food Chemistry, 2021, 363, 130400.	8.2	46
33	Fast and non-invasive serum detection technology based on surface-enhanced Raman spectroscopy and multivariate statistical analysis for liver disease. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 451-459.	3.3	44
34	Dual dye-loaded Au@Ag coupled to a lateral flow immunoassay for the accurate and sensitive detection of Mycoplasma pneumoniae infection. RSC Advances, 2018, 8, 21243-21251.	3.6	44
35	Dualâ€Selective and Dualâ€Enhanced SERS Nanoprobes Strategy for Circulating Hepatocellular Carcinoma Cells Detection. Chemistry - A European Journal, 2018, 24, 7060-7067.	3.3	43
36	Rapid identification and antibiotic susceptibility test of pathogens in blood based on magnetic separation and surface-enhanced Raman scattering. Mikrochimica Acta, 2019, 186, 475.	5.0	43

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37	Development of spike protein-based fluorescence lateral flow assay for the simultaneous detection of SARS-CoV-2 specific IgM and IgG. Analyst, The, 2021, 146, 3908-3917.	3.5	41
38	Vancomycin-modified Fe₃O₄@SiO₂@Ag microflowers as effective antimicrobial agents. International Journal of Nanomedicine, 2017, Volume 12, 3077-3094.	6.7	40
39	An efficient SERS platform for the ultrasensitive detection of Staphylococcus aureus and Listeria monocytogenes via wheat germ agglutinin-modified magnetic SERS substrate and streptavidin/aptamer co-functionalized SERS tags. Analytica Chimica Acta, 2021, 1187, 339155.	5.4	40
40	Quantitative and simultaneous detection of two inflammation biomarkers via a fluorescent lateral flow immunoassay using dual-color SiO2@QD nanotags. Mikrochimica Acta, 2020, 187, 570.	5.0	37
41	Rapid, Quantitative, High-Sensitive Detection of Escherichia coli O157:H7 by Gold-Shell Silica-Core Nanospheres-Based Surface-Enhanced Raman Scattering Lateral Flow Immunoassay. Frontiers in Microbiology, 2020, 11, 596005.	3.5	36
42	Plasmonic Ag Coreâ€“Satellite Nanostructures with a Tunable Silica-Spaced Nanogap for Surface-Enhanced Raman Scattering. Langmuir, 2015, 31, 8129-8137.	3.5	34
43	Rapid, quantitative and ultra-sensitive detection of cancer biomarker by a SERRS-based lateral flow immunoassay using bovine serum albumin coated Au nanorods. RSC Advances, 2020, 10, 271-281.	3.6	32
44	Difunctional immunochromatographic assay based on magnetic quantum dot for ultrasensitive and simultaneous detection of multiple mycotoxins in foods. Sensors and Actuators B: Chemical, 2022, 359, 131528.	7.8	32
45	Magnetic plasmonic particles for SERS-based bacteria sensing: A review. AIP Advances, 2019, 9, .	1.3	31
46	Label-free identification carbapenem-resistant Escherichia coli based on surface-enhanced resonance Raman scattering. RSC Advances, 2018, 8, 4761-4765.	3.6	29
47	Facile synthesis of high-performance SiO₂@Au coreâ€“shell nanoparticles with high SERS activity. RSC Advances, 2018, 8, 30825-30831.	3.6	29
48	Polyethyleneimine-interlayered silica-core quantum dot-shell nanocomposites for sensitive detection of Salmonella typhimurium via a lateral flow immunoassay. RSC Advances, 2020, 10, 2483-2489.	3.6	29
49	Polyethyleneimine-mediated seed growth approach for synthesis of silver-shell silica-core nanocomposites and their application as a versatile SERS platform. RSC Advances, 2017, 7, 13138-13148.	3.6	28
50	Graphene oxide-based three-dimensional Au nanofilm with high-density and controllable hotspots: A powerful film-type SERS tag for immunochromatographic analysis of multiple mycotoxins in complex samples. Chemical Engineering Journal, 2022, 448, 137760.	12.7	28
51	Streptomycin-modified Fe3O4â€“Au@Ag coreâ€“satellite magnetic nanoparticles as an effective antibacterial agent. Journal of Materials Science, 2017, 52, 1357-1368.	3.7	27
52	Synthesis of two-dimensional graphene oxide-fluorescent nanoprobe for ultrasensitive and multiplex immunochromatographic detection of respiratory bacteria. Chemical Engineering Journal, 2021, 426, 131836.	12.7	27
53	Seed-mediated synthesis of high-performance silver-coated magnetic nanoparticles and their use as effective SERS substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 393-401.	4.7	26
54	Silver coated magnetic microflowers as efficient and recyclable catalysts for catalytic reduction. New Journal of Chemistry, 2017, 41, 14199-14208.	2.8	23

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55	Rapid SERS identification of methicillin-susceptible and methicillin-resistant Staphylococcus aureus via aptamer recognition and deep learning. RSC Advances, 2021, 11, 34425-34431.	3.6	20
56	Rapid Detection Method for Pathogenic Candida Captured by Magnetic Nanoparticles and Identified Using SERS via AgNPs+. International Journal of Nanomedicine, 2021, Volume 16, 941-950.	6.7	19
57	A novel method for identifying and distinguishing Cryptococcus neoformans and Cryptococcus gattii by surface-enhanced Raman scattering using positively charged silver nanoparticles. Scientific Reports, 2020, 10, 12480.	3.3	17
58	Dual-signal lateral flow assay using vancomycin-modified nanotags for rapid and sensitive detection of Staphylococcus aureus. RSC Advances, 2021, 11, 13297-13303.	3.6	13
59	A graphene-interlayered magnetic composite as a multifunctional SERS substrate. RSC Advances, 2015, 5, 62101-62109.	3.6	12