

# Chongwen Wang

## List of Publications by Year in descending order

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59  
papers

4,046  
citations

94269

37  
h-index

133063

59  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid field determination of SARS-CoV-2 by a colorimetric and fluorescent dual-functional lateral flow immunoassay biosensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130897.	4.0	56
2	Difunctional immunochromatographic assay based on magnetic quantum dot for ultrasensitive and simultaneous detection of multiple mycotoxins in foods. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131528.	4.0	32
3	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. <i>Chemical Engineering Journal</i> , 2022, 448, 137760.	6.6	28
4	Ultrasensitive multichannel immunochromatographic assay for rapid detection of foodborne bacteria based on two-dimensional film-like SERS labels. <i>Journal of Hazardous Materials</i> , 2022, 437, 129347.	6.5	54
5	Ultrasensitive and multiplex detection of four pathogenic bacteria on a bi-channel lateral flow immunoassay strip with three-dimensional membrane-like SERS nanostickers. <i>Biosensors and Bioelectronics</i> , 2022, 214, 114525.	5.3	62
6	Development of a SERS-based lateral flow immunoassay for rapid and ultra-sensitive detection of anti-SARS-CoV-2 IgM/IgG in clinical samples. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129196.	4.0	206
7	Dual-signal lateral flow assay using vancomycin-modified nanotags for rapid and sensitive detection of <i>Staphylococcus aureus</i> . <i>RSC Advances</i> , 2021, 11, 13297-13303.	1.7	13
8	Rapid Detection Method for Pathogenic Candida Captured by Magnetic Nanoparticles and Identified Using SERS via AgNPs+. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 941-950.	3.3	19
9	In Situ Exosomal MicroRNA Determination by Target-Triggered SERS and Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> -Based Exosome Accumulation. <i>ACS Sensors</i> , 2021, 6, 852-862.	4.0	56
10	A universal SERS-label immunoassay for pathogen bacteria detection based on Fe <sub>3</sub> O <sub>4</sub> @Au-aptamer separation and antibody-protein A orientation recognition. <i>Analytica Chimica Acta</i> , 2021, 1160, 338421.	2.6	61
11	Ultrasensitive and Simultaneous Detection of Two Specific SARS-CoV-2 Antigens in Human Specimens Using Direct/Enrichment Dual-Mode Fluorescence Lateral Flow Immunoassay. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40342-40353.	4.0	78
12	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. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130372.	4.0	58
13	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. <i>Food Chemistry</i> , 2021, 363, 130400.	4.2	46
14	Synthesis of two-dimensional graphene oxide-fluorescent nanoprobe for ultrasensitive and multiplex immunochromatographic detection of respiratory bacteria. <i>Chemical Engineering Journal</i> , 2021, 426, 131836.	6.6	27
15	Development of spike protein-based fluorescence lateral flow assay for the simultaneous detection of SARS-CoV-2 specific IgM and IgG. <i>Analyst</i> , The, 2021, 146, 3908-3917.	1.7	41
16	Rapid SERS identification of methicillin-susceptible and methicillin-resistant <i>Staphylococcus aureus</i> via aptamer recognition and deep learning. <i>RSC Advances</i> , 2021, 11, 34425-34431.	1.7	20
17	An efficient SERS platform for the ultrasensitive detection of <i>Staphylococcus aureus</i> and <i>Listeria monocytogenes</i> via wheat germ agglutinin-modified magnetic SERS substrate and streptavidin/aptamer co-functionalized SERS tags. <i>Analytica Chimica Acta</i> , 2021, 1187, 339155.	2.6	40
18	Personalized detection of circling exosomal PD-L1 based on Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> isolation and SERS immunoassay. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111800.	5.3	150

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19	Layer-by-layer assembly of magnetic-core dual quantum dot-shell nanocomposites for fluorescence lateral flow detection of bacteria. <i>Nanoscale</i> , 2020, 12, 795-807.	2.8	77
20	Rapid, quantitative and ultra-sensitive detection of cancer biomarker by a SERRS-based lateral flow immunoassay using bovine serum albumin coated Au nanorods. <i>RSC Advances</i> , 2020, 10, 271-281.	1.7	32
21	Portable and multiplexed lateral flow immunoassay reader based on SERS for highly sensitive point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112524.	5.3	77
22	Rapid Enrichment and Ultrasensitive Detection of Influenza A Virus in Human Specimen using Magnetic Quantum Dot Nanobeads Based Test Strips. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128780.	4.0	55
23	Sensitive and Simultaneous Detection of SARS-CoV-2-Specific IgM/IgG Using Lateral Flow Immunoassay Based on Dual-Mode Quantum Dot Nanobeads. <i>Analytical Chemistry</i> , 2020, 92, 15542-15549.	3.2	134
24	Rapid, Quantitative, High-Sensitive Detection of Escherichia coli O157:H7 by Gold-Shell Silica-Core Nanospheres-Based Surface-Enhanced Raman Scattering Lateral Flow Immunoassay. <i>Frontiers in Microbiology</i> , 2020, 11, 596005.	1.5	36
25	A novel method for identifying and distinguishing <i>Cryptococcus neoformans</i> and <i>Cryptococcus gattii</i> by surface-enhanced Raman scattering using positively charged silver nanoparticles. <i>Scientific Reports</i> , 2020, 10, 12480.	1.6	17
26	Quantitative and simultaneous detection of two inflammation biomarkers via a fluorescent lateral flow immunoassay using dual-color SiO <sub>2</sub> @QD nanotags. <i>Mikrochimica Acta</i> , 2020, 187, 570.	2.5	37
27	Synthesis of raspberry-like nanogapped Fe <sub>3</sub> O <sub>4</sub> @Au nanocomposites for SERS-based lateral flow detection of multiple tumor biomarkers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12854-12864.	2.7	49
28	Fe <sub>3</sub> O <sub>4</sub> @Au SERS tags-based lateral flow assay for simultaneous detection of serum amyloid A and C-reactive protein in unprocessed blood sample. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128350.	4.0	94
29	Polyethyleneimine-interlayered silica-core quantum dot-shell nanocomposites for sensitive detection of <i>Salmonella typhimurium</i> via a lateral flow immunoassay. <i>RSC Advances</i> , 2020, 10, 2483-2489.	1.7	29
30	Rapid identification and antibiotic susceptibility test of pathogens in blood based on magnetic separation and surface-enhanced Raman scattering. <i>Mikrochimica Acta</i> , 2019, 186, 475.	2.5	43
31	Magnetic quantum dot based lateral flow assay biosensor for multiplex and sensitive detection of protein toxins in food samples. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111754.	5.3	98
32	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. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111719.	5.3	87
33	Dual-SERS biosensor for one-step detection of microRNAs in exosome and residual plasma of blood samples for diagnosing pancreatic cancer. <i>Biosensors and Bioelectronics</i> , 2019, 130, 204-213.	5.3	193
34	Dual-recognition surface-enhanced Raman scattering(SERS)biosensor for pathogenic bacteria detection by using vancomycin-SERS tags and aptamer-Fe <sub>3</sub> O <sub>4</sub> @Au. <i>Analytica Chimica Acta</i> , 2019, 1077, 288-296.	2.6	142
35	Magnetic SERS Strip for Sensitive and Simultaneous Detection of Respiratory Viruses. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19495-19505.	4.0	207
36	Magnetic plasmonic particles for SERS-based bacteria sensing: A review. <i>AIP Advances</i> , 2019, 9, .	0.6	31

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37	Dual-Selective and Dual-Enhanced SERS Nanoprobes Strategy for Circulating Hepatocellular Carcinoma Cells Detection. <i>Chemistry - A European Journal</i> , 2018, 24, 7060-7067.	1.7	43
38	Label-free identification carbapenem-resistant <i>Escherichia coli</i> based on surface-enhanced resonance Raman scattering. <i>RSC Advances</i> , 2018, 8, 4761-4765.	1.7	29
39	Sensitive and specific detection of clinical bacteria via vancomycin-modified Fe <sub>3</sub> O <sub>4</sub> @Au nanoparticles and aptamer-functionalized SERS tags. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3751-3761.	2.9	101
40	Fast and non-invasive serum detection technology based on surface-enhanced Raman spectroscopy and multivariate statistical analysis for liver disease. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 451-459.	1.7	44
41	Facile synthesis of high-performance SiO <sub>2</sub> @Au core-shell nanoparticles with high SERS activity. <i>RSC Advances</i> , 2018, 8, 30825-30831.	1.7	29
42	Dual dye-loaded Au@Ag coupled to a lateral flow immunoassay for the accurate and sensitive detection of <i>Mycoplasma pneumoniae</i> infection. <i>RSC Advances</i> , 2018, 8, 21243-21251.	1.7	44
43	Combined use of vancomycin-modified Ag-coated magnetic nanoparticles and secondary enhanced nanoparticles for rapid surface-enhanced Raman scattering detection of bacteria. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 1159-1178.	3.3	82
44	Polyethyleneimine-mediated seed growth approach for synthesis of silver-shell silica-core nanocomposites and their application as a versatile SERS platform. <i>RSC Advances</i> , 2017, 7, 13138-13148.	1.7	28
45	Streptomycin-modified Fe <sub>3</sub> O <sub>4</sub> @Au@Ag core-satellite magnetic nanoparticles as an effective antibacterial agent. <i>Journal of Materials Science</i> , 2017, 52, 1357-1368.	1.7	27
46	Silver coated magnetic microflowers as efficient and recyclable catalysts for catalytic reduction. <i>New Journal of Chemistry</i> , 2017, 41, 14199-14208.	1.4	23
47	Vancomycin-modified Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Ag microflowers as effective antimicrobial agents. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 3077-3094.	3.3	40
48	Magnetic immunoassay for cancer biomarker detection based on surface-enhanced resonance Raman scattering from coupled plasmonic nanostructures. <i>Biosensors and Bioelectronics</i> , 2016, 84, 15-21.	5.3	66
49	A rapid SERS method for label-free bacteria detection using polyethyleneimine-modified Au-coated magnetic microspheres and Au@Ag nanoparticles. <i>Analyst</i> , The, 2016, 141, 6226-6238.	1.7	134
50	Non-invasive detection of hepatocellular carcinoma serum metabolic profile through surface-enhanced Raman spectroscopy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 2475-2484.	1.7	58
51	Facile Synthesis of Au-Coated Magnetic Nanoparticles and Their Application in Bacteria Detection via a SERS Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19958-19967.	4.0	196
52	Sonochemical synthesis of highly branched flower-like Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Ag microcomposites and their application as versatile SERS substrates. <i>Nanoscale</i> , 2016, 8, 19816-19828.	2.8	59
53	Seed-mediated synthesis of high-performance silver-coated magnetic nanoparticles and their use as effective SERS substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 393-401.	2.3	26
54	Fe <sub>3</sub> O <sub>4</sub> @Ag magnetic nanoparticles for microRNA capture and duplex-specific nuclease signal amplification based SERS detection in cancer cells. <i>Biosensors and Bioelectronics</i> , 2016, 79, 574-580.	5.3	180

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55	Polyethylenimine-interlayered silver-shell magnetic-core microspheres as multifunctional SERS substrates. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8684-8693.	2.7	65
56	A graphene-interlayered magnetic composite as a multifunctional SERS substrate. <i>RSC Advances</i> , 2015, 5, 62101-62109.	1.7	12
57	Plasmonic Ag Core-Satellite Nanostructures with a Tunable Silica-Spaced Nanogap for Surface-Enhanced Raman Scattering. <i>Langmuir</i> , 2015, 31, 8129-8137.	1.6	34
58	Magnetically Assisted Surface-Enhanced Raman Spectroscopy for the Detection of <i>Staphylococcus aureus</i> Based on Aptamer Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20919-20929.	4.0	162
59	Polyethylenimine-interlayered core-shell-satellite 3D magnetic microspheres as versatile SERS substrates. <i>Nanoscale</i> , 2015, 7, 18694-18707.	2.8	79