Zhen Rong

List of Publications by Year
in descending order

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Version: 2024-02-01

27 papers	1,685 citations	394421 19 h-index	526287 27 g-index
27 all docs	27 docs citations	27 times ranked	1825 citing authors

#	Article	IF	Citations
1	A rapid water bath PCR combined with lateral flow assay for the simultaneous detection of SARS-CoV-2 and influenza B virus. RSC Advances, 2022, 12, 3437-3444.	3.6	10
2	Tetra-primer ARMS-PCR combined with dual-color fluorescent lateral flow assay for the discrimination of SARS-CoV-2 and its mutations with a handheld wireless reader. Lab on A Chip, 2022, 22, 1531-1541.	6.0	15
3	Integrated fluorescent lateral flow assay platform for point-of-care diagnosis of infectious diseases by using a multichannel test cartridge. Sensors and Actuators B: Chemical, 2021, 329, 129193.	7.8	16
4	Duplex-specific nuclease signal amplification-based fluorescent lateral flow assay for the point-of-care detection of microRNAs. Analyst, The, 2021, 146, 558-564.	3.5	16
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Magnetic SERS Strip for Sensitive and Simultaneous Detection of Respiratory Viruses. ACS Applied Materials & Interfaces, 2019, 11, 19495-19505.	8.0	207
13	Smartphone-based fluorescent lateral flow immunoassay platform for highly sensitive point-of-care detection of Zika virus nonstructural protein 1. Analytica Chimica Acta, 2019, 1055, 140-147.	5.4	129
14	SERS detection of radiation injury biomarkers in mouse serum. RSC Advances, 2018, 8, 5119-5126.	3.6	7
15	SERS-based lateral flow assay for quantitative detection of C-reactive protein as an early bio-indicator of a radiation-induced inflammatory response in nonhuman primates. Analyst, The, 2018, 143, 2115-2121.	3.5	66
16	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
17	Dual dye-loaded Au@Ag coupled to a lateral flow immunoassay for the accurate and sensitive detection of <i>Mycoplasma pneumoniae</i> infection. RSC Advances, 2018, 8, 21243-21251.	3.6	44
18	Silver coated magnetic microflowers as efficient and recyclable catalysts for catalytic reduction. New Journal of Chemistry, 2017, 41, 14199-14208.	2.8	23

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	Silver Nanopartical over AuFON Substrate for Enhanced Raman Readout and Their Application in Pesticide Monitoring. Molecules, 2015, 20, 6299-6309.	3.8	18
24	Polyethylenimine-interlayered silver-shell magnetic-core microspheres as multifunctional SERS substrates. Journal of Materials Chemistry C, 2015, 3, 8684-8693.	5.5	65
25	A graphene-interlayered magnetic composite as a multifunctional SERS substrate. RSC Advances, 2015, 5, 62101-62109.	3.6	12
26	Polyethylenimine-interlayered coreâ€“shellâ€“satellite 3D magnetic microspheres as versatile SERS substrates. Nanoscale, 2015, 7, 18694-18707.	5.6	79
27	Ultrasensitive hybrid SERS substrate for rapid detection of trace chemicals. Laser Physics, 2014, 24, 045807.	1.2	6