

Shenshan Zhan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,208
citations

201674

27
h-index

361022

35
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all docs

37
docs citations

37
times ranked

2422
citing authors

#	ARTICLE	IF	CITATIONS
1	Cationic polymers and aptamers mediated aggregation of gold nanoparticles for the colorimetric detection of arsenic(iii) in aqueous solution. <i>Chemical Communications</i> , 2012, 48, 4459.	4.1	223
2	Selection of a DNA aptamer for cadmium detection based on cationic polymer mediated aggregation of gold nanoparticles. <i>Analyst, The</i> , 2014, 139, 1550-1561.	3.5	166
3	Ultrasensitive aptamer biosensor for arsenic(iii) detection in aqueous solution based on surfactant-induced aggregation of gold nanoparticles. <i>Analyst, The</i> , 2012, 137, 4171.	3.5	160
4	Nanomaterials and nanotechnology for the delivery of agrochemicals: strategies towards sustainable agriculture. <i>Journal of Nanobiotechnology</i> , 2022, 20, 11.	9.1	138
5	A mini-review on functional nucleic acids-based heavy metal ion detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 353-368.	10.1	135
6	Highly hydrophobic ZIF-8 particles and application for oil-water separation. <i>Separation and Purification Technology</i> , 2018, 206, 186-191.	7.9	128
7	Recent Advances in Solid Nanopore/Channel Analysis. <i>Analytical Chemistry</i> , 2018, 90, 577-588.	6.5	112
8	Nanoparticles assembled by aptamers and crystal violet for arsenic(iii) detection in aqueous solution based on a resonance Rayleigh scattering spectral assay. <i>Nanoscale</i> , 2012, 4, 6841.	5.6	109
9	A simple and label-free sensor for mercury(ii) detection in aqueous solution by malachite green based on a resonance scattering spectral assay. <i>Chemical Communications</i> , 2011, 47, 6027.	4.1	91
10	Electrochemical aptasensor for tetracycline using a screen-printed carbon electrode modified with an alginate film containing reduced graphene oxide and magnetite (Fe ₃ O ₄) nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 723-729.	5.0	72
11	Simultaneous detection of telomerase and miRNA with graphene oxide-based fluorescent aptasensor in living cells and tissue samples. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 199-204.	10.1	70
12	Advances in Controlled-Release Pesticide Formulations with Improved Efficacy and Targetability. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 12579-12597.	5.2	70
13	Colorimetric detection of bisphenol A based on unmodified aptamer and cationic polymer aggregated gold nanoparticles. <i>Analytical Biochemistry</i> , 2016, 499, 51-56.	2.4	64
14	Regulation of hemin peroxidase catalytic activity by arsenic-binding aptamers for the colorimetric detection of arsenic(iii). <i>RSC Advances</i> , 2013, 3, 25614.	3.6	56
15	Zeolitic imidazolate framework-based biosensor for detection of HIV-1 DNA. <i>Analytical Biochemistry</i> , 2018, 546, 5-9.	2.4	53
16	Label-free fluorescent sensor for lead ion detection based on lead(II)-stabilized G-quadruplex formation. <i>Analytical Biochemistry</i> , 2014, 462, 19-25.	2.4	51
17	Ultrasensitive Resonance Scattering (RS) Spectral Detection for Trace Tetracycline in Milk Using Aptamer-Coated Nanogold (ACNG) as a Catalyst. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1032-1037.	5.2	46
18	Fluorescent detection of Hg ²⁺ and Pb ²⁺ using GeneFinder [®] and an integrated functional nucleic acid. <i>Biosensors and Bioelectronics</i> , 2015, 72, 95-99.	10.1	40

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19	Avermectin loaded carboxymethyl cellulose nanoparticles with stimuli-responsive and controlled release properties. <i>Industrial Crops and Products</i> , 2020, 152, 112497.	5.2	39
20	Ultrasensitive and selective detection of isocarbophos pesticide based on target and random ssDNA triggered aggregation of hemin in polar organic solutions. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 445-453.	7.8	38
21	A simple fluorescent assay for lead(ii) detection based on lead(ii)-stabilized G-quadruplex formation. <i>RSC Advances</i> , 2013, 3, 16962.	3.6	36
22	A silver-specific DNA-based bio-assay for Ag(i) detection via the aggregation of unmodified gold nanoparticles in aqueous solution coupled with resonance Rayleigh scattering. <i>Analytical Methods</i> , 2012, 4, 3997.	2.7	34
23	A label-free colorimetric progesterone aptasensor based on the aggregation of gold nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 2251-2258.	5.0	33
24	A Label-Free Colorimetric Biosensor for 17 β -Estradiol Detection Using Nanoparticles Assembled by Aptamer and Cationic Polymer. <i>Australian Journal of Chemistry</i> , 2016, 69, 12.	0.9	32
25	Plasmonic gold nanostructures for biosensing and bioimaging. <i>Mikrochimica Acta</i> , 2021, 188, 304.	5.0	32
26	Determination of silver(I) ion based on the aggregation of gold nanoparticles caused by silver-specific DNA, and its effect on the fluorescence of Rhodamine B. <i>Mikrochimica Acta</i> , 2015, 182, 1411-1419.	5.0	31
27	Biological and chemical sensing applications based on special wettable surfaces. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 183-194.	11.4	30
28	A Simple and Sensitive Colorimetric Detection of Silver Ions Based on Cationic Polymer-Directed AuNPs Aggregation. <i>Australian Journal of Chemistry</i> , 2013, 66, 113.	0.9	28
29	Sensitive colorimetric detection of melamine in milk with an aptamer-modified nanogold probe. <i>RSC Advances</i> , 2013, 3, 17424.	3.6	20
30	Sensitive fluorescent assay for copper (II) determination in aqueous solution using copper-specific ssDNA and Sybr Green I. <i>Talanta</i> , 2015, 142, 176-182.	5.5	20
31	A highly sensitive resonance scattering based sensor using unmodified gold nanoparticles for daunomycin detection in aqueous solution. <i>Analytical Methods</i> , 2012, 4, 2266.	2.7	15
32	DNA-templated coinage metal nanostructures and their applications in bioanalysis and biomedicine. <i>Coordination Chemistry Reviews</i> , 2022, 455, 214381.	18.8	15
33	A label-free fluorescent sensor for the detection of Pb ²⁺ and Hg ²⁺ . <i>Analytical Methods</i> , 2015, 7, 6260-6265.	2.7	13
34	Recent advances in optical-based and force-based single nucleic acid imaging. <i>Science China Chemistry</i> , 2017, 60, 1267-1276.	8.2	5
35	Self-assembly of 1-triacontanol onto layered doubled hydroxide nano-carriers toward sustainable growth regulation of maize. <i>Environmental Science: Nano</i> , 2022, 9, 797-804.	4.3	2
36	Sandwich Assays Based on SPR, SERS, GMR, QCM, Microcantilever, SAW, and RRS Techniques for Protein Detection. , 2018, , 69-91.		1

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37	A Viable Approach for Utilization of the Agro-Industrial Waste in Biodiesel Industry: Using Deoiled Jatropha curcas Seed Meal to Produce Protease by Aspergillus niger under Solid-State Fermentation. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, . . .	0.0	0