

Sai Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,251
citations

18
h-index

35
g-index

49
ext. papers

1,632
ext. citations

7.1
avg, IF

4.65
L-index

#	Paper	IF	Citations
47	A label-free colorimetric aptasensor based on split aptamers-chitosan oligosaccharide-AuNPs nanocomposites for sensitive and selective detection of kanamycin. <i>Talanta</i> , 2022 , 238, 123032	6.2	7
46	Emerging roles of the aptasensors as superior bioaffinity sensors for monitoring shellfish toxins in marine food chain. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126690	12.8	3
45	Development of a Label-Free Colorimetric Aptasensor with Rationally Utilized Aptamer for Rapid Detection of Okadaic Acid. <i>Journal of Ocean University of China</i> , 2022 , 21, 400-408	1	0
44	Construction of a high affinity aptamer and an aptasensor with chitosan oligosaccharide-AuNPs@Fe ²⁺ nanozyme for highly sensitive detection of phosphatidylserine. <i>Sensors and Actuators B: Chemical</i> , 2022 , 362, 131800	8.5	2
43	Development of a colorimetric aptasensor fabricated with a group-specific aptamer and AuNPs@Fe nanozyme for simultaneous detection of multiple diarrhetic shellfish poisons.. <i>Talanta</i> , 2022 , 246, 123534	6.2	0
42	Simultaneous determination of zearalenone and ochratoxin A based on microscale thermophoresis assay with a bifunctional aptamer. <i>Analytica Chimica Acta</i> , 2021 , 1155, 338345	6.6	6
41	A competitive colorimetric aptasensor transduced by hybridization chain reaction-facilitated catalysis of AuNPs nanozyme for highly sensitive detection of saxitoxin. <i>Analytica Chimica Acta</i> , 2021 , 1173, 338710	6.6	3
40	Development of a terminal-fixed aptamer and a label-free colorimetric aptasensor for highly sensitive detection of saxitoxin. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130320	8.5	8
39	Advances and perspectives of aptasensors for the detection of tetracyclines: A class of model compounds of food analysis. <i>Food Chemistry</i> , 2021 , 364, 130361	8.5	7
38	Hapten-Branched Polyethylenimine as a New Antigen Affinity Ligand to Purify Antibodies with High Efficiency and Specificity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58191-58200	9.5	2
37	A rapid, easy, and sensitive method for detecting His-tag-containing chitinase based on ssDNA aptamers and gold nanoparticles. <i>Food Chemistry</i> , 2020 , 330, 127230	8.5	3
36	Development of a lateral flow aptamer assay strip for facile identification of theranostic exosomes isolated from human lung carcinoma cells. <i>Analytical Biochemistry</i> , 2020 , 594, 113591	3.1	19
35	Development of a chimeric aptamer and an AuNPs aptasensor for highly sensitive and specific identification of Aflatoxin B1. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128250	8.5	20
34	Nanotetrahedron-assisted electrochemical aptasensor with cooperatively-folding aptamer chimera for sensitive and selective detection of lysozyme in red wines. <i>Analytica Chimica Acta</i> , 2020 , 1095, 172-178	6.6	8
33	A facile label-free electrochemical aptasensor constructed with nanotetrahedron and aptamer-triplex for sensitive detection of small molecule: Saxitoxin. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 858, 113805	4.1	21
32	Highly sensitive and specific detection of small molecules using advanced aptasensors based on split aptamers: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 133, 116069	14.6	30
31	An Aptamer-Nanotrain Assembled from Six-Letter DNA Delivers Doxorubicin Selectively to Liver Cancer Cells. <i>Angewandte Chemie</i> , 2020 , 132, 673-678	3.6	4

30	An Aptamer-Nanotrain Assembled from Six-Letter DNA Delivers Doxorubicin Selectively to Liver Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 663-668	16.4	26
29	Topologically Constrained Formation of Stable Z-DNA from Normal Sequence under Physiological Conditions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7758-7764	16.4	21
28	An aptamer cocktail-based electrochemical aptasensor for direct capture and rapid detection of tetracycline in honey. <i>Microchemical Journal</i> , 2019 , 150, 104179	4.8	16
27	Engineering Aptamer with Enhanced Affinity by Triple Helix-Based Terminal Fixation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17493-17497	16.4	42
26	Development of a SPR aptasensor containing oriented aptamer for direct capture and detection of tetracycline in multiple honey samples. <i>Biosensors and Bioelectronics</i> , 2018 , 109, 1-7	11.8	75
25	State of the art: Lateral flow assay (LFA) biosensor for on-site rapid detection. <i>Chinese Chemical Letters</i> , 2018 , 29, 1567-1577	8.1	28
24	Development of Lateral Flow Immunochromatographic Strips for Micropollutants Screening Using Colorants of Aptamer Functionalized Nanogold Particles Part I Methodology and Optimization. <i>Journal of AOAC INTERNATIONAL</i> , 2018 , 101, 1402-1407	1.7	3
23	Introduction of SELEX and Important SELEX Variants 2018 , 1-25		4
22	Enzyme-Linked Aptamer Assay (ELAA) 2018 , 219-227		1
21	Aptamers and Aptasensors for Highly Specific Recognition and Sensitive Detection of Marine Biotoxins: Recent Advances and Perspectives. <i>Toxins</i> , 2018 , 10,	4.9	26
20	Development of Lateral Flow Immunochromatographic Strips for Micropollutant Screening Using Colorants of Aptamer-Functionalized Nanogold Particles, Part II: Experimental Verification with Aflatoxin B1 and Chloramphenicol. <i>Journal of AOAC INTERNATIONAL</i> , 2018 , 101, 1408-1414	1.7	8
19	Applications of DART-MS for food quality and safety assurance in food supply chain. <i>Mass Spectrometry Reviews</i> , 2017 , 36, 161-187	11	74
18	A competitive luminol chemiluminescence immunosensor based on a microfluidic chip for the determination of ractopamine. <i>Electrophoresis</i> , 2017 , 38, 368-371	3.6	10
17	The development of a graphene oxide-based aptasensor used for the detection of tetracycline in honey. <i>Analytical Methods</i> , 2017 , 9, 1133-1140	3.2	11
16	Molecular Recognition-Based DNA Nanoassemblies on the Surfaces of Nanosized Exosomes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5289-5292	16.4	134
15	Aptasensor with Expanded Nucleotide Using DNA Nanotetrahedra for Electrochemical Detection of Cancerous Exosomes. <i>ACS Nano</i> , 2017 , 11, 3943-3949	16.7	264
14	An Electrochemical DNA Biosensor Based on Au-reduced Graphene Oxide Nanocomposite for Transgenic Event Bt63 Detection. <i>Analytical Sciences</i> , 2017 , 33, 1155-1160	1.7	7
13	Aptamer-based Colorimetric Biosensing of Ochratoxin A in Fortified White Grape Wine Sample Using Unmodified Gold Nanoparticles. <i>Analytical Sciences</i> , 2017 , 33, 659-664	1.7	35

12	An Improved Label-Free Indirect Competitive SPR Immunosensor and Its Comparison with Conventional ELISA for Ractopamine Detection in Swine Urine. <i>Sensors</i> , 2017 , 17,	3.8	10
11	Aptamers against Cells Overexpressing Glypican 3 from Expanded Genetic Systems Combined with Cell Engineering and Laboratory Evolution. <i>Angewandte Chemie</i> , 2016 , 128, 12560-12563	3.6	8
10	Micromorphological characterization and label-free quantitation of small rubber particle protein in natural rubber latex. <i>Analytical Biochemistry</i> , 2016 , 499, 34-42	3.1	2
9	A molecular recognition assisted colorimetric aptasensor for tetracycline. <i>RSC Advances</i> , 2016 , 6, 45645-45651	3.7	18
8	Aptamers against Cells Overexpressing Glypican 3 from Expanded Genetic Systems Combined with Cell Engineering and Laboratory Evolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12372-5	16.4	60
7	Conformational structure-dependent molecular recognition of two aptamers for tetracycline. <i>RSC Advances</i> , 2015 , 5, 53796-53801	3.7	16
6	Simultaneous qualitation and quantitation of natural trans-1,4-polyisoprene from <i>Eucommia ulmoides</i> Oliver by gel permeation chromatography (GPC). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 1004, 17-22	3.2	12
5	A direct competitive assay-based aptasensor for sensitive determination of tetracycline residue in honey. <i>Talanta</i> , 2015 , 131, 562-9	6.2	80
4	Determination of Dicyandiamide in Powdered Milk Using Direct Analysis in Real Time Quadrupole Time-of-Flight Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1414-22	3.5	21
3	Emerging frontier technologies for food safety analysis and risk assessment. <i>Journal of Integrative Agriculture</i> , 2015 , 14, 2231-2242	3.2	8
2	Development of an indirect competitive assay-based aptasensor for highly sensitive detection of tetracycline residue in honey. <i>Biosensors and Bioelectronics</i> , 2014 , 57, 192-8	11.8	84
1	A competitive microfluidic immunological clenbuterol analysis using a microELISA system. <i>RSC Advances</i> , 2014 , 4, 39894	3.7	3