

Sai Wang

List of Publications by Year in descending order

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46
papers

1,968
citations

279487

23
h-index

253896

43
g-index

49
all docs

49
docs citations

49
times ranked

2369
citing authors

#	ARTICLE	IF	CITATIONS
1	Aptasensor with Expanded Nucleotide Using DNA Nanotetrahedra for Electrochemical Detection of Cancerous Exosomes. <i>ACS Nano</i> , 2017, 11, 3943-3949.	7.3	370
2	Molecular Recognition-Based DNA Nanoassemblies on the Surfaces of Nanosized Exosomes. <i>Journal of the American Chemical Society</i> , 2017, 139, 5289-5292.	6.6	175
3	Development of an indirect competitive assay-based aptasensor for highly sensitive detection of tetracycline residue in honey. <i>Biosensors and Bioelectronics</i> , 2014, 57, 192-198.	5.3	104
4	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.	5.3	100
5	Applications of DART-MS for food quality and safety assurance in food supply chain. <i>Mass Spectrometry Reviews</i> , 2017, 36, 161-187.	2.8	91
6	A direct competitive assay-based aptasensor for sensitive determination of tetracycline residue in Honey. <i>Talanta</i> , 2015, 131, 562-569.	2.9	90
7	Engineering Aptamer with Enhanced Affinity by Triple Helix-Based Terminal Fixation. <i>Journal of the American Chemical Society</i> , 2019, 141, 17493-17497.	6.6	90
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, 12372-12375.	7.2	78
9	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.	5.8	69
10	An Aptamer-Nanotrainer Assembled from Six-Letter DNA Delivers Doxorubicin Selectively to Liver Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 663-668.	7.2	61
11	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.	0.8	48
12	State of the art: Lateral flow assay (LFA) biosensor for on-site rapid detection. <i>Chinese Chemical Letters</i> , 2018, 29, 1567-1577.	4.8	43
13	Aptamers and Aptasensors for Highly Specific Recognition and Sensitive Detection of Marine Biotoxins: Recent Advances and Perspectives. <i>Toxins</i> , 2018, 10, 427.	1.5	43
14	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.	1.9	43
15	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.	4.0	41
16	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.	1.1	39
17	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.	6.6	36
18	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.	2.9	31

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19	An aptamer cocktail-based electrochemical aptasensor for direct capture and rapid detection of tetracycline in honey. <i>Microchemical Journal</i> , 2019, 150, 104179.	2.3	28
20	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.	4.0	27
21	Conformational structure-dependent molecular recognition of two aptamers for tetracycline. <i>RSC Advances</i> , 2015, 5, 53796-53801.	1.7	26
22	A molecular recognition assisted colorimetric aptasensor for tetracycline. <i>RSC Advances</i> , 2016, 6, 45645-45651.	1.7	26
23	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.	2.6	26
24	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, 1414-1422.	1.2	25
25	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.	4.2	23
26	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.	1.2	21
27	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.	6.5	19
28	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, 604.	2.1	17
29	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.	0.7	17
30	Simultaneous determination of zearalenone and ochratoxin A based on microscale thermophoresis assay with a bifunctional aptamer. <i>Analytica Chimica Acta</i> , 2021, 1155, 338345.	2.6	17
31	The development of a graphene oxide-based aptasensor used for the detection of tetracycline in honey. <i>Analytical Methods</i> , 2017, 9, 1133-1140.	1.3	15
32	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.	2.6	15
33	Micromorphological characterization and label-free quantitation of small rubber particle protein in natural rubber latex. <i>Analytical Biochemistry</i> , 2016, 499, 34-42.	1.1	13
34	Emerging frontier technologies for food safety analysis and risk assessment. <i>Journal of Integrative Agriculture</i> , 2015, 14, 2231-2242.	1.7	11
35	A competitive luminol chemiluminescence immunosensor based on a microfluidic chip for the determination of ractopamine. <i>Electrophoresis</i> , 2017, 38, 368-371.	1.3	11
36	Aptamers against Cells Overexpressing Glypicanâ€¦3 from Expanded Genetic Systems Combined with Cell Engineering and Laboratory Evolution. <i>Angewandte Chemie</i> , 2016, 128, 12560-12563.	1.6	9

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37	An Electrochemical DNA Biosensor Based on Au-reduced Graphene Oxide Nanocomposite for Transgenic Event Bt63 Detection. <i>Analytical Sciences</i> , 2017, 33, 1155-1160.	0.8	9
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.	4.0	9
39	An Aptamer-Nanotrainer Assembled from Six-Letter DNA Delivers Doxorubicin Selectively to Liver Cancer Cells. <i>Angewandte Chemie</i> , 2020, 132, 673-678.	1.6	8
40	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.	4.2	7
41	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.	4.0	7
42	Development of a colorimetric aptasensor fabricated with a group-specific aptamer and AuNPs@Fe ²⁺ nanozyme for simultaneous detection of multiple diarrheic shellfish poisons. <i>Talanta</i> , 2022, 246, 123534.	2.9	7
43	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.	0.7	5
44	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.	0.6	5
45	A competitive microfluidic immunological clenbuterol analysis using a microELISA system. <i>RSC Advances</i> , 2014, 4, 39894.	1.7	3
46	A facile and integrated aptamer-based platform for preliminary and simultaneous screening of group targets. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132312.	4.0	3