Nuo Duan

List of Publications by Year
in descending order

102	5,788	61984	82547
papers	citations	43 h-index	72 g-index

102	102	102	4668
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of Nanomaterials for Coping with Mycotoxin Contamination in Food Safety: From Detection to Control. Critical Reviews in Analytical Chemistry, 2024, 54, 355-388.	3.5	14
2	Signal amplification of SiO2 nanoparticle loaded horseradish peroxidase for colorimetric detection of lead ions in water. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120342.	3.9	12
3	Fluorescence imaging of glutathione with aptasensor and monitoring deoxynivalenol-induced oxidative stress in living cells. Sensors and Actuators B: Chemical, 2022, 354, 131190.	7.8	4
4	Strategies to manipulate the performance of aptamers in SELEX, post-SELEX and microenvironment. Biotechnology Advances, 2022, 55, 107902.	11.7	67
5	CRISPR-Cas12a-mediated luminescence resonance energy transfer aptasensing platform for deoxynivalenol using gold nanoparticle-decorated Ti3C2Tx MXene as the enhanced quencher. Journal of Hazardous Materials, 2022, 433, 128750.	12.4	48
6	Surface-enhanced Raman spectroscopy relying on bimetallic Auâ€“Ag nanourchins for the detection of the food allergen Î²-lactoglobulin. Talanta, 2022, 245, 123445.	5.5	16
7	Protective Effects of Ferulic Acid on Deoxynivalenol-Induced Toxicity in IPEC-J2 Cells. Toxins, 2022, 14, 275.	3.4	10
8	Selection, truncation and fluorescence polarization based aptasensor for Weissella viridescens detection. Talanta, 2022, 246, 123499.	5.5	11
9	Double-enzymes-mediated fluorescent assay for sensitive determination of organophosphorus pesticides based on the quenching of upconversion nanoparticles by Fe3+. Food Chemistry, 2021, 345, 128809.	8.2	26
10	Screening and application of a broad-spectrum aptamer for acyclic guanosine analogues. Analytical and Bioanalytical Chemistry, 2021, 413, 4855-4863.	3.7	7
11	Upconversion Nanoparticles Assembled with Gold Nanourchins as Luminescence and Surface-Enhanced Raman Scattering Dual-Mode Aptasensors for Detection of Ochratoxin A. ACS Applied Nano Materials, 2021, 4, 8231-8240.	5.0	34
12	High-affinity aptamer of allergen Î²-lactoglobulin: Selection, recognition mechanism and application. Sensors and Actuators B: Chemical, 2021, 340, 129956.	7.8	43
13	Label free structure-switching fluorescence polarization detection of chloramphenicol with truncated aptamer. Talanta, 2021, 230, 122349.	5.5	38
14	Deoxynivalenol-induced cell apoptosis monitoring using a cytochrome c-specific ï¬‚uorescent probe based on a photoinduced electron transfer reaction. Journal of Hazardous Materials, 2021, 415, 125638.	12.4	12
15	Deoxynivalenol photocatalytic detoxification products alleviate intestinal barrier damage and gut flora disorder in BLAB/c mice. Food and Chemical Toxicology, 2021, 156, 112510.	3.6	15
16	Preparation and characterization of k-carrageenan/konjac glucomannan/TiO2 nanocomposite film with efficient anti-fungal activity and its application in strawberry preservation. Food Chemistry, 2021, 364, 130441.	8.2	56
17	The isolation of high-affinity ssDNA aptamer for the detection of ribavirin in chicken. Analytical Methods, 2021, 13, 3110-3117.	2.7	7
18	Effectively Selecting Aptamers for Targeting Aromatic Biogenic Amines and Their Application in Aptasensing Establishment. Journal of Agricultural and Food Chemistry, 2021, 69, 14671-14679.	5.2	8

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19	Assessing the toxicity inÂvitro of degradation products from deoxynivalenol photocatalytic degradation by using upconversion nanoparticles@TiO2 composite. Chemosphere, 2020, 238, 124648.	8.2	44
20	Colorimetric aptasensor for the detection of mercury based on signal intensification by rolling circle amplification. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117387.	3.9	19
21	A colorimetric aptamer-based method for detection of cadmium using the enhanced peroxidase-like activity of Auâ€“MoS2 nanocomposites. Analytical Biochemistry, 2020, 608, 113844.	2.4	31
22	Application of PEG-CdSe@ZnS quantum dots for ROS imaging and evaluation of deoxynivalenol-mediated oxidative stress in living cells. Food and Chemical Toxicology, 2020, 146, 111834.	3.6	11
23	A Visual and Sensitive Detection of Escherichia coli Based on Aptamer and Peroxidase-like Mimics of Copper-Metal Organic Framework Nanoparticles. Food Analytical Methods, 2020, 13, 1433-1441.	2.6	38
24	A Colorimetric Aptamer Sensor Based on the Enhanced Peroxidase Activity of Functionalized Graphene/Fe3O4-AuNPs for Detection of Lead (II) Ions. Catalysts, 2020, 10, 600.	3.5	27
25	Fluorometric determination of acetamiprid using molecularly imprinted upconversion nanoparticles. Mikrochimica Acta, 2020, 187, 222.	5.0	40
26	Surface-enhanced Raman spectroscopicâ€“based aptasensor for Shigella sonnei using a dual-functional metal complex-ligated gold nanoparticles dimer. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110940.	5.0	26
27	A SERS aptasensor for simultaneous multiple pathogens detection using gold decorated PDMS substrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 230, 118103.	3.9	51
28	Photocatalysis and degradation products identification of deoxynivalenol in wheat using upconversion nanoparticles@TiO2 composite. Food Chemistry, 2020, 323, 126823.	8.2	40
29	Selection and application of ssDNA aptamers against spermine based on Capture-SELEX. Analytica Chimica Acta, 2019, 1081, 168-175.	5.4	35
30	Quantum Dot-Based F0F1-ATPase Aptasensor for Vibrio parahaemolyticus Detection. Food Analytical Methods, 2019, 12, 1849-1857.	2.6	4
31	Surface-enhanced Raman spectroscopic single step detection of Vibrio parahaemolyticus using gold coated polydimethylsiloxane as the active substrate and aptamer modified gold nanoparticles. Mikrochimica Acta, 2019, 186, 401.	5.0	17
32	Colorimetric Aptasensor Based on Truncated Aptamer and Trivalent DNAzyme for Vibrio parahemolyticus Determination. Journal of Agricultural and Food Chemistry, 2019, 67, 2313-2320.	5.2	81
33	Simultaneous detection of fumonisin B1 and ochratoxin A using dual-color, time-resolved luminescent nanoparticles (NaYF4: Ce, Tb and NH2-Eu/DPA@SiO2) as labels. Analytical and Bioanalytical Chemistry, 2019, 411, 1453-1465.	3.7	28
34	Fluorometric determination of lipopolysaccharides via changes of the graphene oxide-enhanced fluorescence polarization caused by truncated aptamers. Mikrochimica Acta, 2019, 186, 173.	5.0	35
35	Detoxification of DON by photocatalytic degradation and quality evaluation of wheat. RSC Advances, 2019, 9, 34351-34358.	3.6	10
36	GO-amplified fluorescence polarization assay for high-sensitivity detection of aflatoxin B1 with low dosage aptamer probe. Analytical and Bioanalytical Chemistry, 2019, 411, 1107-1115.	3.7	29

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37	Polydimethylsiloxane Gold Nanoparticle Composite Film as Structure for Aptamer-Based Detection of Vibrio parahaemolyticus by Surface-Enhanced Raman Spectroscopy. Food Analytical Methods, 2019, 12, 595-603.	2.6	26
38	Aptamer-Based Lateral Flow Test Strip for Rapid Detection of Zearalenone in Corn Samples. Journal of Agricultural and Food Chemistry, 2018, 66, 1949-1954.	5.2	148
39	Selection and characterization, application of a DNA aptamer targeted to Streptococcus pyogenes in cooked chicken. Analytical Biochemistry, 2018, 551, 37-42.	2.4	16
40	A test strip for ochratoxin A based on the use of aptamer-modified fluorescence upconversion nanoparticles. Mikrochimica Acta, 2018, 185, 497.	5.0	64
41	Magnetic Separation-Based Multiple SELEX for Effectively Selecting Aptamers against Saxitoxin, Domoic Acid, and Tetrodotoxin. Journal of Agricultural and Food Chemistry, 2018, 66, 9801-9809.	5.2	51
42	Fluorometric determination of Vibrio parahaemolyticus using an F0F1-ATPase-based aptamer and labeled chromatophores. Mikrochimica Acta, 2018, 185, 304.	5.0	8
43	Selection, Identification, and Binding Mechanism Studies of an ssDNA Aptamer Targeted to Different Stages of E. coli O157:H7. Journal of Agricultural and Food Chemistry, 2018, 66, 5677-5682.	5.2	54
44	An enhanced chemiluminescence resonance energy transfer aptasensor based on rolling circle amplification and WS2 nanosheet for Staphylococcus aureus detection. Analytica Chimica Acta, 2017, 959, 83-90.	5.4	59
45	An ultrasensitive aptasensor for Ochratoxin A using hexagonal core/shell upconversion nanoparticles as luminophores. Biosensors and Bioelectronics, 2017, 91, 538-544.	10.1	61
46	Ultrasensitive SERS aptasensor for the detection of oxytetracycline based on a gold-enhanced nano-assembly. Talanta, 2017, 165, 412-418.	5.5	60
47	An ssDNA library immobilized SELEX technique for selection of an aptamer against ractopamine. Analytica Chimica Acta, 2017, 961, 100-105.	5.4	44
48	Selection and Application of ssDNA Aptamers against Clenbuterol Hydrochloride Based on ssDNA Library Immobilized SELEX. Journal of Agricultural and Food Chemistry, 2017, 65, 1771-1777.	5.2	48
49	A competitive fluorescent aptasensor for okadaic acid detection assisted by rolling circle amplification. Mikrochimica Acta, 2017, 184, 2893-2899.	5.0	24
50	Graphene oxide wrapped Fe3O4@Au nanostructures as substrates for aptamer-based detection of Vibrio parahaemolyticus by surface-enhanced Raman spectroscopy. Mikrochimica Acta, 2017, 184, 2653-2660.	5.0	59
51	A chemiluminescent aptasensor based on rolling circle amplification and Co2+/N-(aminobutyl)-N-(ethylisoluminol) functional flowerlike gold nanoparticles for Salmonella typhimurium detection. Talanta, 2017, 164, 275-282.	5.5	32
52	Photocatalytic degradation of microcystin-LR with a nanostructured photocatalyst based on upconversion nanoparticles@TiO2 composite under simulated solar lights. Scientific Reports, 2017, 7, 14435.	3.3	28
53	Colorimetric aptasensor for the detection of Salmonella enterica serovar typhimurium using ZnFe 2 O 4 -reduced graphene oxide nanostructures as an effective peroxidase mimetics. International Journal of Food Microbiology, 2017, 261, 42-48.	4.7	62
54	Homogeneous time-resolved FRET assay for the detection of Salmonella typhimurium using aptamer-modified NaYF4:Ce/Tb nanoparticles and a fluorescent DNA label. Mikrochimica Acta, 2017, 184, 4021-4027.	5.0	19

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55	Orientation selection of broad-spectrum aptamers against lipopolysaccharides based on capture-SELEX by using magnetic nanoparticles. Mikrochimica Acta, 2017, 184, 4235-4242.	5.0	27
56	A Review of the Methods for Detection of Staphylococcus aureus Enterotoxins. Toxins, 2016, 8, 176.	3.4	114
57	Graphene oxide-assisted non-immobilized SELEX of okdaic acid aptamer and the analytical application of aptasensor. Scientific Reports, 2016, 6, 21665.	3.3	71
58	Mn2+-doped NaYF4:Yb/Er upconversion nanoparticle-based electrochemiluminescent aptasensor for bisphenol A. Analytical and Bioanalytical Chemistry, 2016, 408, 3823-3831.	3.7	40
59	Advances in aptasensors for the detection of food contaminants. Analyst, The, 2016, 141, 3942-3961.	3.5	118
60	A chemiluminescent aptasensor for simultaneous detection of three antibiotics in milk. Analytical Methods, 2016, 8, 7929-7936.	2.7	37
61	Simultaneous detection of Staphylococcus aureus and Salmonella typhimurium using multicolor time-resolved fluorescence nanoparticles as labels. International Journal of Food Microbiology, 2016, 237, 172-179.	4.7	37
62	Magnetic Nanoparticles-based Aptasensor Using Gold Nanoparticles as Colorimetric Probes for the Detection of Salmonella typhimurium. Analytical Sciences, 2016, 32, 431-436.	1.6	34
63	DNA aptamer selection and aptamer-based fluorometric displacement assay for the hepatotoxin microcystin-RR. Mikrochimica Acta, 2016, 183, 2555-2562.	5.0	21
64	SERS aptasensor detection of Salmonella typhimurium using a magnetic gold nanoparticle and gold nanoparticle based sandwich structure. Analytical Methods, 2016, 8, 8099-8105.	2.7	27
65	Screening and development of DNA aptamers as capture probes for colorimetric detection of patulin. Analytical Biochemistry, 2016, 508, 58-64.	2.4	84
66	A near-infrared magnetic aptasensor for Ochratoxin A based on near-infrared upconversion nanoparticles and magnetic nanoparticles. Talanta, 2016, 158, 246-253.	5.5	35
67	An aptasensor based on fluorescence resonance energy transfer for multiplexed pathogenic bacteria determination. Analytical Methods, 2016, 8, 1390-1395.	2.7	30
68	Vibrio parahaemolyticus detection aptasensor using surface-enhanced Raman scattering. Food Control, 2016, 63, 122-127.	5.5	54
69	A luminescence resonance energy transfer based aptasensor for the mycotoxin Ochratoxin A using upconversion nanoparticles and gold nanorods. Mikrochimica Acta, 2016, 183, 1909-1916.	5.0	76
70	Salmonella typhimurium detection using a surface-enhanced Raman scattering-based aptasensor. International Journal of Food Microbiology, 2016, 218, 38-43.	4.7	105
71	Impedimetric Salmonella aptasensor using a glassy carbon electrode modified with an electrodeposited composite consisting of reduced graphene oxide and carbon nanotubes. Mikrochimica Acta, 2016, 183, 337-344.	5.0	105
72	Fluorescence resonance energy transfer-based aptamer biosensors for bisphenol A using lanthanide-doped KGdF₄ nanoparticles. Analytical Methods, 2015, 7, 5186-5192.	2.7	24

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73	Simultaneous detection of pathogenic bacteria using an aptamer based biosensor and dual fluorescence resonance energy transfer from quantum dots to carbon nanoparticles. Mikrochimica Acta, 2015, 182, 917-923.	5.0	129
74	Highly sensitive aptasensor for oxytetracycline based on upconversion and magnetic nanoparticles. Analytical Methods, 2015, 7, 2585-2593.	2.7	30
75	Gold nanoparticles enhanced SERS aptasensor for the simultaneous detection of Salmonella typhimurium and Staphylococcus aureus. Biosensors and Bioelectronics, 2015, 74, 872-877.	10.1	242
76	A multicolor time-resolved fluorescence aptasensor for the simultaneous detection of multiplex Staphylococcus aureus enterotoxins in the milk. Biosensors and Bioelectronics, 2015, 74, 170-176.	10.1	50
77	Selection, identification, and application of dual DNA aptamers against Shigella sonnei. Analytical Methods, 2015, 7, 3625-3631.	2.7	20
78	Homogeneous time-resolved fluorescence assay for the detection of ricin using an aptamer immobilized on europium-doped KGdF4 nanoparticles and graphene oxide as a quencher. Mikrochimica Acta, 2015, 182, 1035-1043.	5.0	9
79	Upconversion luminescence resonance energy transfer-based aptasensor for the sensitive detection of oxytetracycline. Analytical Biochemistry, 2015, 489, 44-49.	2.4	40
80	Colorimetric Aptasensor Based on Enzyme for the Detection of Vibrio parahemolyticus. Journal of Agricultural and Food Chemistry, 2015, 63, 7849-7854.	5.2	66
81	Chemiluminescent aptasensor for chloramphenicol based on N-(4-aminobutyl)-N-ethylisoluminol-functionalized flower-like gold nanostructures and magnetic nanoparticles. Analytical and Bioanalytical Chemistry, 2015, 407, 7907-7915.	3.7	37
82	Aptamer-based fluorescence biosensor for chloramphenicol determination using upconversion nanoparticles. Food Control, 2015, 50, 597-604.	5.5	188
83	Selection and characterization of DNA aptamers against Staphylococcus aureus enterotoxin C1. Food Chemistry, 2015, 166, 623-629.	8.2	72
84	Dual fluorescence resonance energy transfer assay between tunable upconversion nanoparticles and controlled gold nanoparticles for the simultaneous detection of Pb2+ and Hg2+. Talanta, 2014, 128, 327-336.	5.5	83
85	Impedimetric aptasensor for Staphylococcus aureus based on nanocomposite prepared from reduced graphene oxide and gold nanoparticles. Mikrochimica Acta, 2014, 181, 967-974.	5.0	106
86	Selection, identification, and application of Aflatoxin B1 aptamer. European Food Research and Technology, 2014, 238, 919-925.	3.3	74
87	A universal fluorescent aptasensor based on AccuBlue dye for the detection of pathogenic bacteria. Analytical Biochemistry, 2014, 454, 1-6.	2.4	31
88	Selection and characterization of single stranded DNA aptamers recognizing fumonisin B1. Mikrochimica Acta, 2014, 181, 1317-1324.	5.0	44
89	Selection, identification and application of a DNA aptamer against Staphylococcus aureus enterotoxin A. Analytical Methods, 2014, 6, 690-697.	2.7	42
90	Simultaneous Aptasensor for Multiplex Pathogenic Bacteria Detection Based on Multicolor Upconversion Nanoparticles Labels. Analytical Chemistry, 2014, 86, 3100-3107.	6.5	285

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91	A sensitive gold nanoparticle-based colorimetric aptasensor for Staphylococcus aureus. Talanta, 2014, 127, 163-168.	5.5	104
92	A highly sensitive fluorescence resonance energy transfer aptasensor for staphylococcal enterotoxin B detection based on exonuclease-catalyzed target recycling strategy. Analytica Chimica Acta, 2013, 782, 59-66.	5.4	57
93	In vitro selection of a DNA aptamer targeted against Shigella dysenteriae. Journal of Microbiological Methods, 2013, 94, 170-174.	1.6	46
94	A dual-color flow cytometry protocol for the simultaneous detection of Vibrio parahaemolyticus and Salmonella typhimurium using aptamer conjugated quantum dots as labels. Analytica Chimica Acta, 2013, 804, 151-158.	5.4	76
95	Selection and Characterization of Aptamers against Salmonella typhimurium Using Whole-Bacterium Systemic Evolution of Ligands by Exponential Enrichment (SELEX). Journal of Agricultural and Food Chemistry, 2013, 61, 3229-3234.	5.2	144
96	Dual-color upconversion fluorescence and aptamer-functionalized magnetic nanoparticles-based bioassay for the simultaneous detection of Salmonella Typhimurium and Staphylococcus aureus. Analytica Chimica Acta, 2012, 723, 1-6.	5.4	181
97	Gold Nanoparticle-Based Fluorescence Resonance Energy Transfer Aptasensor for Ochratoxin A Detection. Analytical Letters, 2012, 45, 714-723.	1.8	41
98	Multiplexed Fluorescence Resonance Energy Transfer Aptasensor between Upconversion Nanoparticles and Graphene Oxide for the Simultaneous Determination of Mycotoxins. Analytical Chemistry, 2012, 84, 6263-6270.	6.5	303
99	Selection and Identification of a DNA Aptamer Targeted to Vibrio parahemolyticus. Journal of Agricultural and Food Chemistry, 2012, 60, 4034-4038.	5.2	129
100	Ultrasensitive Chemiluminescent Detection ofSalmonellawith DNA Hybridization and Silver Amplification of Nanogold Labels. Analytical Letters, 2011, 44, 1063-1076.	1.8	2
101	Aptamer-functionalized magnetic nanoparticle-based bioassay for the detection of ochratoxin a using upconversion nanoparticles as labels. Analyst, The, 2011, 136, 2306.	3.5	132
102	Magnetic nanobead-based immunoassay for the simultaneous detection of aflatoxin B1 and ochratoxin A using upconversion nanoparticles as multicolor labels. Biosensors and Bioelectronics, 2011, 30, 35-42.	10.1	129