Xiulan Sun

List of Publications by Year in descending order

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104 papers	3,032 citations	136740 32 h-index	205818 48 g-index
106 all docs	106 docs citations	106 times ranked	3641 citing authors

#	Article	IF	Citations
1	A novel molecularly imprinted electrochemical sensor modified with carbon dots, chitosan, gold nanoparticles for the determination of patulin. Biosensors and Bioelectronics, 2017, 98, 299-304.	5.3	181
2	Recent progress on cell-based biosensors for analysis of food safety and quality control. Biosensors and Bioelectronics, 2019, 126, 389-404.	5.3	99
3	Carbon dots: Current advances in pathogenic bacteria monitoring and prospect applications. Biosensors and Bioelectronics, 2020, 156, 112085.	5.3	99
4	Magnetic molecularly imprinted polymer nanoparticles based electrochemical sensor for the measurement of Gram-negative bacterial quorum signaling molecules (N-acyl-homoserine-lactones). Biosensors and Bioelectronics, 2016, 75, 411-419.	5.3	97
5	High-throughput sequencing analysis of bacterial community composition and quality characteristics in refrigerated pork during storage. Food Microbiology, 2019, 83, 86-94.	2.1	87
6	A novel magnetic fluorescent biosensor based on graphene quantum dots for rapid, efficient, and sensitive separation and detection of circulating tumor cells. Analytical and Bioanalytical Chemistry, 2019, 411, 985-995.	1.9	77
7	Loop-mediated isothermal amplification-based microfluidic chip for pathogen detection. Critical Reviews in Food Science and Nutrition, 2020, 60, 201-224.	5.4	71
8	Carbon dots-releasing hydrogels with antibacterial activity, high biocompatibility, and fluorescence performance as candidate materials for wound healing. Journal of Hazardous Materials, 2021, 406, 124330.	6.5	66
9	Individual and combined effects of Aflatoxin B 1 , Deoxynivalenol and Zearalenone on HepG2 and RAW 264.7 cell lines. Food and Chemical Toxicology, 2017, 103, 18-27.	1.8	65
10	Deoxynivalenol: Masked forms, fate during food processing, and potential biological remedies. Comprehensive Reviews in Food Science and Food Safety, 2020, 19, 895-926.	5.9	63
11	Development of a simple and convenient cell-based electrochemical biosensor for evaluating the individual and combined toxicity of DON, ZEN, and AFB 1. Biosensors and Bioelectronics, 2017, 97, 345-351.	5.3	62
12	The anti-aflatoxigenic mechanism of cinnamaldehyde in Aspergillus flavus. Scientific Reports, 2019, 9, 10499.	1.6	61
13	Ultrasensitive Fluorometric Angling Determination of Staphylococcus aureus in Vitro and Fluorescence Imaging in Vivo Using Carbon Dots with Full-Color Emission. Analytical Chemistry, 2019, 91, 14681-14690.	3.2	60
14	Fluorescent magnetic bead-based mast cell biosensor for electrochemical detection of allergens in foodstuffs. Biosensors and Bioelectronics, 2015, 70, 482-490.	5.3	57
15	Surface-enhanced fluorescence immunosensor using Au nano-crosses for the detection of microcystin-LR. Biosensors and Bioelectronics, 2014, 62, 255-260.	5.3	53
16	Development of highly sensitive electrochemical genosensor based on multiwalled carbon nanotubesâ€“chitosanâ€“bismuth and lead sulfide nanoparticles for the detection of pathogenic Aeromonas. Biosensors and Bioelectronics, 2015, 63, 399-406.	5.3	53
17	Minireview: Trends in Optical-Based Biosensors for Point-Of-Care Bacterial Pathogen Detection for Food Safety and Clinical Diagnostics. Analytical Letters, 2018, 51, 2933-2966.	1.0	53
18	Biological detoxification of zearalenone by Aspergillus niger strain FS10. Food and Chemical Toxicology, 2014, 72, 76-82.	1.8	52

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19	The Antagonistic Effect of Mycotoxins Deoxynivalenol and Zearalenone on Metabolic Profiling in Serum and Liver of Mice. Toxins, 2017, 9, 28.	1.5	45
20	Metabolomics Analysis To Evaluate the Anti-Inflammatory Effects of Polyphenols: Glabridin Reversed Metabolism Change Caused by LPS in RAW 264.7 Cells. Journal of Agricultural and Food Chemistry, 2017, 65, 6070-6079.	2.4	43
21	Electrochemical Detection of Peanut Allergen Ara h 1 Using a Sensitive DNA Biosensor Based on Stemâ€“Loop Probe. Journal of Agricultural and Food Chemistry, 2012, 60, 10979-10984.	2.4	41
22	Microbial detoxification of mycotoxins in food and feed. Critical Reviews in Food Science and Nutrition, 2022, 62, 4951-4969.	5.4	41
23	Adsorption of aflatoxins and ochratoxins in edible vegetable oils with dopamine-coated magnetic multi-walled carbon nanotubes. Food Chemistry, 2021, 365, 130409.	4.2	41
24	Red-Emissive Carbon Dots for â€œSwitch-Onâ€•Dual Function Sensing Platform Rapid Detection of Ferric Ions and <scp>l</scp>-Cysteine in Living Cells. ACS Omega, 2019, 4, 12575-12583.	1.6	40
25	Removal of patulin in apple juice based on novel magnetic molecularly imprinted adsorbent Fe3O4@SiO2@CS-GO@MIP. LWT - Food Science and Technology, 2020, 118, 108854.	2.5	39
26	One-step time-resolved fluorescence microsphere immunochromatographic test strip for quantitative and simultaneous detection of DON and ZEN. Analytical and Bioanalytical Chemistry, 2021, 413, 6489-6502.	1.9	39
27	Recent Advances in gâ€C₃N₄â€Based Photocatalysts for Pollutant Degradation and Bacterial Disinfection: Design Strategies, Mechanisms, and Applications. Small, 2022, 18, e2105089.	5.2	39
28	Multilayer grapheneâ€“gold nanocomposite modified stem-loop DNA biosensor for peanut allergen-Ara h1 detection. Food Chemistry, 2015, 172, 335-342.	4.2	38
29	DNA biosensor-based on fluorescence detection of E. coli O157:H7 by Au@Ag nanorods. Biosensors and Bioelectronics, 2015, 70, 239-245.	5.3	37
30	A novel mast cell co-culture microfluidic chip for the electrochemical evaluation of food allergen. Biosensors and Bioelectronics, 2016, 83, 126-133.	5.3	37
31	A novel electrochemical biosensor for antioxidant evaluation of phloretin based on cell-alginate/ÊŸ-cysteine/gold nanoparticle-modified glassy carbon electrode. Biosensors and Bioelectronics, 2018, 119, 119-125.	5.3	37
32	A highly selective and sensitive electrochemical CSâ€“MWCNTs/Au-NPs composite DNA biosensor for Staphylococcus aureus gene sequence detection. Talanta, 2015, 141, 300-306.	2.9	35
33	A class-specific artificial receptor-based on molecularly imprinted polymer-coated quantum dot centers for the detection of signaling molecules, N-acyl-homoserine lactones present in gram-negative bacteria. Analytica Chimica Acta, 2018, 1031, 134-144.	2.6	35
34	A rapid and ultrasensitive dual detection platform based on Cas12a for simultaneous detection of virulence and resistance genes of drug-resistant Salmonella. Biosensors and Bioelectronics, 2022, 195, 113682.	5.3	35
35	Combined toxicity of prevalent mycotoxins studied in fish cell line and zebrafish larvae revealed that type of interactions is dose-dependent. Aquatic Toxicology, 2017, 193, 60-71.	1.9	33
36	Multi-Toxic Endpoints of the Foodborne Mycotoxins in Nematode Caenorhabditis elegans. Toxins, 2015, 7, 5224-5235.	1.5	31

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37	Comet-like Heterodimers â€œGold Nanoflower @Graphene Quantum Dotsâ€•Probe with FRET â€œOffâ€•to DNA Circuit Signal â€œOnâ€•for Sensing and Imaging MicroRNA In Vitro and In Vivo. Analytical Chemistry, 2018, 90, 11538-11547.	3.2	31
38	3D â€œhoneycombâ€•cell/carbon nanofiber/gelatin methacryloyl (GelMA) modified screen-printed electrode for electrochemical assessment of the combined toxicity of deoxynivalenol family mycotoxins. Bioelectrochemistry, 2021, 139, 107743.	2.4	30
39	High-throughput living cell-based optical biosensor for detection of bacterial lipopolysaccharide (LPS) using a red fluorescent protein reporter system. Scientific Reports, 2016, 6, 36987.	1.6	28
40	A Sensitive and simple macrophage-based electrochemical biosensor for evaluating lipopolysaccharide cytotoxicity of pathogenic bacteria. Biosensors and Bioelectronics, 2016, 81, 349-357.	5.3	28
41	Insights into cellular metabolic pathways of the combined toxicity responses of Caco-2 cells exposed to deoxynivalenol, zearalenone and Aflatoxin B1. Food and Chemical Toxicology, 2019, 126, 106-112.	1.8	28
42	GC-TOF/MS-based metabolomics approach to study the cellular immunotoxicity of deoxynivalenol on murine macrophage ANA-1 cells. Chemico-Biological Interactions, 2016, 256, 94-101.	1.7	27
43	Ultrasensitive fluorometric determination of iron(<scp>iii</scp>) and inositol hexaphosphate in cancerous and bacterial cells by using carbon dots with bright yellow fluorescence. Analyst, The, 2019, 144, 5010-5021.	1.7	27
44	Simple, high efficiency detection of microcystins and nodularin-R in water by fluorescence polarization immunoassay. Analytica Chimica Acta, 2017, 992, 119-127.	2.6	26
45	The disorder metabolic profiling in kidney and spleen of mice induced by mycotoxins deoxynivalenol through gas chromatography mass spectrometry. Chemosphere, 2017, 180, 267-274.	4.2	25
46	An eco-friendly sensor based on CQD@MIPs for detection of N-acylated homoserine lactones and its 3D printing applications. Talanta, 2020, 219, 121343.	2.9	24
47	Advances on the rapid and multiplex detection methods of food allergens. Critical Reviews in Food Science and Nutrition, 2022, 62, 6887-6907.	5.4	23
48	Rapid detection of pork meat freshness by using L-cysteine-modified gold electrode. European Food Research and Technology, 2011, 232, 425-431.	1.6	22
49	Ultrasensitive â€œFRET-SEFâ€•Probe for Sensing and Imaging MicroRNAs in Living Cells Based on Gold Nanoconjugates. Analytical Chemistry, 2018, 90, 3099-3108.	3.2	22
50	Untargeted Metabolomic Profiling Reveals Changes in Gut Microbiota and Mechanisms of Its Regulation of Allergy in OVA-Sensitive BALB/c Mice. Journal of Agricultural and Food Chemistry, 2022, 70, 3344-3356.	2.4	22
51	Chemical and toxicological alterations of zearalenone under ozone treatment. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2019, 36, 163-174.	1.1	21
52	One-step extraction and simultaneous quantitative fluorescence immunochromatography strip for AFB1 and Cd detection in grain. Food Chemistry, 2022, 374, 131684.	4.2	21
53	Using fluorescence immunochromatographic test strips based on quantum dots for the rapid and sensitive determination of microcystin-LR. Analytical and Bioanalytical Chemistry, 2017, 409, 2213-2220.	1.9	20
54	A molecularly imprinted electrochemical sensor based on Au nanocross-chitosan composites for detection of paraquat. Journal of Solid State Electrochemistry, 2019, 23, 1211-1220.	1.2	20

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55	Novel dual immunochromatographic test strip based on double antibodies and biotin-streptavidin system for simultaneous sensitive detection of aflatoxin M1 and ochratoxin A in milk. Food Chemistry, 2022, 375, 131682.	4.2	20
56	Diet composition affects long-term zearalenone exposure on the gutâ€“bloodâ€“liver axis metabolic dysfunction in mice. Ecotoxicology and Environmental Safety, 2022, 236, 113466.	2.9	20
57	Explaining combinatorial effects of mycotoxins Deoxynivalenol and Zearalenone in mice with urinary metabolomic profiling. Scientific Reports, 2018, 8, 3762.	1.6	19
58	Potential of Caenorhabditis elegans as an antiaging evaluation model for dietary phytochemicals: A review. Comprehensive Reviews in Food Science and Food Safety, 2020, 19, 3084-3105.	5.9	19
59	Untargeted metabolomics analysis by gas chromatography/timeâ€ofâ€flight mass spectrometry of human serum from methamphetamine abusers. Addiction Biology, 2021, 26, e13062.	1.4	19
60	Current research progress of mammalian cell-based biosensors on the detection of foodborne pathogens and toxins. Critical Reviews in Food Science and Nutrition, 2021, 61, 3819-3835.	5.4	18
61	An electrochemical sensor based on molecularly imprinted membranes on a P-ATPâ€“AuNP modified electrode for the determination of acrylamide. Analytical Methods, 2014, 6, 6452-6458.	1.3	17
62	GC-TOF/MS-based metabolomic strategy for combined toxicity effects of deoxynivalenol and zearalenone on murine macrophage ANA-1 cells. Toxicon, 2016, 120, 175-184.	0.8	17
63	Trans-/multi-generational effects of deoxynivalenol on Caenorhabditis elegans. Chemosphere, 2018, 201, 41-49.	4.2	17
64	Synergistical accumulation for electrochemical sensing of 1-hydroxypyrene on electroreduced graphene oxide electrode. Talanta, 2019, 192, 387-394.	2.9	17
65	Toxicogenomic responses to zearalenone in Caenorhabditis elegans reveal possible molecular mechanisms of reproductive toxicity. Food and Chemical Toxicology, 2018, 122, 49-58.	1.8	16
66	Rapid detection of antibiotic resistance in Salmonella with screen printed carbon electrodes. Journal of Solid State Electrochemistry, 2020, 24, 1539-1549.	1.2	16
67	MAPK/AP-1 and ROS participated in ratio- and time-dependent interaction effects of deoxynivalenol and cadmium on HT-29Âcells. Food and Chemical Toxicology, 2021, 148, 111921.	1.8	16
68	Preparation and application of acrylamide molecularly imprinted composite solid-phase extraction materials. Analytical Methods, 2012, 4, 3760.	1.3	15
69	A novel fluorescent molecularly imprinted polymer SiO₂@CdTe QDs@MIP for paraquat detection and adsorption. Luminescence, 2021, 36, 345-352.	1.5	15
70	Recent advances in single-cell analysis: Encapsulation materials, analysis methods and integrative platform for microfluidic technology. Talanta, 2021, 234, 122671.	2.9	15
71	A novel cell-based electrochemical biosensor based on MnO2 catalysis for antioxidant activity evaluation of anthocyanins. Biosensors and Bioelectronics, 2022, 202, 113990.	5.3	15
72	Astilbin fromSmilax glabraRoxb. alleviates high-fat diet-induced metabolic dysfunction. Food and Function, 2022, 13, 5023-5036.	2.1	15

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73	Cell Based-Green Fluorescent Biosensor Using Cytotoxic Pathway for Bacterial Lipopolysaccharide Recognition. Journal of Agricultural and Food Chemistry, 2018, 66, 6869-6876.	2.4	14
74	Untargeted GC-TOFMS-based cellular metabolism analysis to evaluate ozone degradation effect of deoxynivalenol. Toxicon, 2019, 168, 49-57.	0.8	14
75	Determination of microcystin-LR with a glassy carbon impedimetric immunoelectrode modified with an ionic liquid and multiwalled carbon nanotubes. Mikrochimica Acta, 2013, 180, 75-83.	2.5	13
76	Universal fluorescence nanoprobes to enhance the sensitivity of immunochromatographic assay for detection of 17Î²-estradiol in milk. Food Chemistry, 2022, 370, 131027.	4.2	13
77	Abnormal neurotransmission of GABA and serotonin in Caenorhabditis elegans induced by Fumonisin B1. Environmental Pollution, 2022, 304, 119141.	3.7	12
78	Current Progress on Antibiotic Sensing Based on Ratiometric Fluorescent Sensors. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 176-184.	1.3	11
79	Comprehensive Analysis of the Components of Walnut Kernel (Juglans regia L.) in China. Journal of Food Quality, 2021, 2021, 1-11.	1.4	11
80	Inhibition Mechanism of Berberine on Î±â€Amylase and Î±â€Glucosidase in Vitro. Starch/Staerke, 2022, 74, 2100231.	1.1	11
81	Gas chromatography-mass spectrometry metabolomic study of lipopolysaccharides toxicity on rat basophilic leukemia cells. Chemico-Biological Interactions, 2018, 281, 81-88.	1.7	10
82	A novel analytical strategy for the determination of perfluoroalkyl acids in various food matrices using a home-made functionalized fluorine interaction SPME in combination with LC-MS/MS. Food Chemistry, 2022, 366, 130572.	4.2	10
83	Fate of deoxynivalenol and degradation products degraded by aqueous ozone in contaminated wheat. Food Research International, 2020, 137, 109357.	2.9	9
84	Opposite estrogen effects of estrone and 2-hydroxyestrone on MCF-7 sensitivity to the cytotoxic action of cell growth, oxidative stress and inflammation activity. Ecotoxicology and Environmental Safety, 2021, 209, 111754.	2.9	9
85	Application of triple co-cultured cell spheroid model for exploring hepatotoxicity and metabolic pathway of AFB1. Science of the Total Environment, 2022, 807, 150840.	3.9	9
86	Synthesis of gold nanocrystals with chiral morphology, chiral ligand and more exposed high-index facets as electrocatalyst for the oxidation of glucose enantiomers with high enantioselectivity and catalytic activity. Catalysis Science and Technology, 2022, 12, 2097-2105.	2.1	9
87	A novel concentration gradient microfluidic chip for high-throughput antibiotic susceptibility testing of bacteria. Analytical and Bioanalytical Chemistry, 2021, 413, 1127-1136.	1.9	8
88	Probing the stereoselective interaction of ofloxacin enantiomers with corresponding monoclonal antibodies by multiple spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 194, 83-91.	2.0	7
89	New insights into cytotoxicity induced by microcystin-LR, estradiol, and ractopamine with mathematical models: Individual and combined effects. Chemosphere, 2017, 168, 223-233.	4.2	6
90	Numerical modeling of polymorphic transformation of oleic acid via near-infrared spectroscopy and factor analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 153-158.	2.0	6

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91	Investigation into Cellular Glycolysis for the Mechanism Study of Energy Metabolism Disorder Triggered by Lipopolysaccharide. Toxins, 2018, 10, 441.	1.5	6
92	Development of a living mammalian cell-based biosensor for the monitoring and evaluation of synergetic toxicity of cadmium and deoxynivalenol. Science of the Total Environment, 2021, 771, 144823.	3.9	6
93	Effects of acid, alkaline, cold, and heat environmental stresses on the antibiotic resistance of the Salmonella enterica serovar Typhimurium. Food Research International, 2021, 144, 110359.	2.9	6
94	Degradation of Ochratoxin A by a UV-Mutated Aspergillus niger Strain. Toxins, 2022, 14, 343.	1.5	6
95	Sensitive Techniques for POCT Sensing on the Residues of Pesticides and Veterinary Drugs in Food. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 206-214.	1.3	5
96	Coexposure of Cyclopiazonic Acid with Aflatoxin B1 Involved in Disrupting Amino Acid Metabolism and Redox Homeostasis Causing Synergistic Toxic Effects in Hepatocyte Spheroids. Journal of Agricultural and Food Chemistry, 2022, 70, 5166-5176.	2.4	5
97	Immunization with functionalized carbon nanotubes enhances the antibody response against mode antigen ovalbumin. Immunology Letters, 2016, 178, 77-84.	1.1	4
98	Identification of Major B-Cell Linear Epitopes of Peach Allergen Pru p 3 Using Immune Slot-Blot Microarray Assay. Journal of Agricultural and Food Chemistry, 0, , .	2.4	4
99	An improved overall risk probability-based method for assessing the combined health risks of chemical mixtures: An example about mixture of aflatoxin B1 and microcystin LR by dietary intake. Food and Chemical Toxicology, 2020, 146, 111815.	1.8	2
100	Perspective of Microbe-based Minerals Fortification in Nutrition Security. Food Reviews International, 2020, , 1-14.	4.3	2
101	Development of a non-targeted high-coverage microbial metabolomics pretreatment method and its application to drug resistant Salmonella. Analytical Methods, 2020, 12, 1449-1459.	1.3	1
102	An FcÎµRI-IgE-based genetically encoded microfluidic cell sensor for fast Gram-negative bacterial screening in food samples. Analyst, The, 2020, 145, 2297-2304.	1.7	1
103	3, 4-Dihydroxy-l-phenylalanine Biopolymer Cellulose DNA Adhesive Card as an Enhanced Solid-Phase One-Step DNA Extraction Method from Foodborne Pathogens in Food Samples. Food Analytical Methods, 2022, 15, 2069-2083.	1.3	1
104	Addendum: Yang, Z., et al. Multi-Toxic Endpoints of the Foodborne Mycotoxins in Nematode Caenorhabditis elegans. Toxins (Basel), 2015, 7(12), 5224â€“5235. Toxins, 2016, 8, 141.	1.5	0