Xiulan Sun

List of Publications by Citations

101 papers	1,790 citations	26 h-index	37 g-index
106 ext. papers	2,417 ext. citations	6.6 avg, IF	5.33 L-index

#	Paper	IF	Citations
101	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	11.8	141
100	Addendum: Yang, Z., et al. Multi-Toxic Endpoints of the Foodborne Mycotoxins in Nematode Caenorhabditis elegans. Toxins (Basel), 2015, 7(12), 5224-5235. *Toxins*, **2016**, 8, 141	4.9	78
99	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, 411-9	11.8	77
98	Recent progress on cell-based biosensors for analysis of food safety and quality control. *Biosensors and Bioelectronics*, **2019**, 126, 389-404	11.8	59
97	Carbon dots: Current advances in pathogenic bacteria monitoring and prospect applications. *Biosensors and Bioelectronics*, **2020**, 156, 112085	11.8	50
96	Fluorescent magnetic bead-based mast cell biosensor for electrochemical detection of allergens in foodstuffs. *Biosensors and Bioelectronics*, **2015**, 70, 482-90	11.8	47
95	Individual and combined effects of Aflatoxin B, Deoxynivalenol and Zearalenone on HepG2 and RAW 264.7 cell lines. *Food and Chemical Toxicology*, **2017**, 103, 18-27	4.7	46
94	Surface-enhanced fluorescence immunosensor using Au nano-crosses for the detection of microcystin-LR. *Biosensors and Bioelectronics*, **2014**, 62, 255-60	11.8	46
93	Development of highly sensitive electrochemical genosensor based on multiwalled carbon nanotubes-chitosan-bismuth and lead sulfide nanoparticles for the detection of pathogenic Aeromonas. *Biosensors and Bioelectronics*, **2015**, 63, 399-406	11.8	45
92	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	4.4	44
91	High-throughput sequencing analysis of bacterial community composition and quality characteristics in refrigerated pork during storage. *Food Microbiology*, **2019**, 83, 86-94	6	42
90	Development of a simple and convenient cell-based electrochemical biosensor for evaluating the individual and combined toxicity of DON, ZEN, and AFB. *Biosensors and Bioelectronics*, **2017**, 97, 345-351	11.8	39
89	Biological detoxification of zearalenone by Aspergillus niger strain FS10. *Food and Chemical Toxicology*, **2014**, 72, 76-82	4.7	39
88	Electrochemical detection of peanut allergen Ara h 1 using a sensitive DNA biosensor based on stem-loop probe. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 10979-84	5.7	36
87	Multilayer graphene-gold nanocomposite modified stem-loop DNA biosensor for peanut allergen-Ara h1 detection. *Food Chemistry*, **2015**, 172, 335-42	8.5	35
86	DNA biosensor-based on fluorescence detection of E. coli O157:H7 by Au@Ag nanorods. *Biosensors and Bioelectronics*, **2015**, 70, 239-45	11.8	34
85	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	5.7	30

84	A novel mast cell co-culture microfluidic chip for the electrochemical evaluation of food allergen. *Biosensors and Bioelectronics*, **2016**, 83, 126-33	11.8	30
83	A highly selective and sensitive electrochemical CS-MWCNTs/Au-NPs composite DNA biosensor for Staphylococcus aureus gene sequence detection. *Talanta*, **2015**, 141, 300-6	6.2	29
82	Ultrasensitive Fluorometric Angling Determination of in Vitro and Fluorescence Imaging in Vivo Using Carbon Dots with Full-Color Emission. *Analytical Chemistry*, **2019**, 91, 14681-14690	7.8	29
81	The Antagonistic Effect of Mycotoxins Deoxynivalenol and Zearalenone on Metabolic Profiling in Serum and Liver of Mice. *Toxins*, **2017**, 9,	4.9	29
80	Loop-mediated isothermal amplification-based microfluidic chip for pathogen detection. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 201-224	11.5	29
79	Deoxynivalenol: Masked forms, fate during food processing, and potential biological remedies. *Comprehensive Reviews in Food Science and Food Safety*, **2020**, 19, 895-926	16.4	27
78	Red-Emissive Carbon Dots for "Switch-On" Dual Function Sensing Platform Rapid Detection of Ferric Ions and l-Cysteine in Living Cells. *ACS Omega*, **2019**, 4, 12575-12583	3.9	27
77	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	5.4	27
76	A novel electrochemical biosensor for antioxidant evaluation of phloretin based on cell-alginate/L-cysteine/gold nanoparticle-modified glassy carbon electrode. *Biosensors and Bioelectronics*, **2018**, 119, 119-125	11.8	26
75	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	2.2	25
74	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	6.6	24
73	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	4.9	23
72	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	5.1	22
71	Multi-Toxic Endpoints of the Foodborne Mycotoxins in Nematode Caenorhabditis elegans. *Toxins*, **2015**, 7, 5224-35	4.9	22
70	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	12.8	22
69	The disorder metabolic profiling in kidney and spleen of mice induced by mycotoxins deoxynivalenol through gas chromatography mass spectrometry. *Chemosphere*, **2017**, 180, 267-274	8.4	21
68	Ultrasensitive fluorometric determination of iron(iii) and inositol hexaphosphate in cancerous and bacterial cells by using carbon dots with bright yellow fluorescence. *Analyst, The*, **2019**, 144, 5010-5021	5	21
67	A Sensitive and simple macrophage-based electrochemical biosensor for evaluating lipopolysaccharide cytotoxicity of pathogenic bacteria. *Biosensors and Bioelectronics*, **2016**, 81, 349-357	11.8	20

66	The anti-aflatoxigenic mechanism of cinnamaldehyde in Aspergillus flavus. *Scientific Reports*, **2019**, 9, 10499	4.9	20
65	Comet-like Heterodimers "Gold Nanoflower @Graphene Quantum Dots" Probe with FRET "Off" to DNA Circuit Signal "On" for Sensing and Imaging MicroRNA In Vitro and In Vivo. *Analytical Chemistry* , **2018**, 90, 11538-11547	7.8	20
64	Simple, high efficiency detection of microcystins and nodularin-R in water by fluorescence polarization immunoassay. *Analytica Chimica Acta*, **2017**, 992, 119-127	6.6	19
63	Rapid detection of pork meat freshness by using L-cysteine-modified gold electrode. *European Food Research and Technology*, **2011**, 232, 425-431	3.4	19
62	Ultrasensitive "FRET-SEF" Probe for Sensing and Imaging MicroRNAs in Living Cells Based on Gold Nanoconjugates. *Analytical Chemistry*, **2018**, 90, 3099-3108	7.8	18
61	Insights into cellular metabolic pathways of the combined toxicity responses of Caco-2 cells exposed to deoxynivalenol, zearalenone and Aflatoxin B. *Food and Chemical Toxicology*, **2019**, 126, 106-112	4.7	17
60	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	5	15
59	Synergistical accumulation for electrochemical sensing of 1-hydroxypyrene on electroreduced graphene oxide electrode. *Talanta*, **2019**, 192, 387-394	6.2	15
58	An eco-friendly sensor based on CQD@MIPs for detection of N-acylated homoserine lactones and its 3D printing applications. *Talanta*, **2020**, 219, 121343	6.2	14
57	GC-TOF/MS-based metabolomic strategy for combined toxicity effects of deoxynivalenol and zearalenone on murine macrophage ANA-1 cells. *Toxicon*, **2016**, 120, 175-84	2.8	14
56	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	4.4	14
55	Preparation and application of acrylamide molecularly imprinted composite solid-phase extraction materials. *Analytical Methods*, **2012**, 4, 3760	3.2	14
54	Explaining combinatorial effects of mycotoxins Deoxynivalenol and Zearalenone in mice with urinary metabolomic profiling. *Scientific Reports*, **2018**, 8, 3762	4.9	12
53	Trans-/multi-generational effects of deoxynivalenol on Caenorhabditis elegans. *Chemosphere*, **2018** , 201, 41-49	8.4	12
52	An electrochemical sensor based on molecularly imprinted membranes on a P-ATP–AuNP modified electrode for the determination of acrylamide. *Analytical Methods*, **2014**, 6, 6452-6458	3.2	12
51	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	5.8	12
50	Cell Based-Green Fluorescent Biosensor Using Cytotoxic Pathway for Bacterial Lipopolysaccharide Recognition. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 6869-6876	5.7	11
49	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	16.4	10

48	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	3.2	10
47	A molecularly imprinted electrochemical sensor based on Au nanocross-chitosan composites for detection of paraquat. *Journal of Solid State Electrochemistry*, **2019**, 23, 1211-1220	2.6	9
46	Rapid detection of antibiotic resistance in Salmonella with screen printed carbon electrodes. *Journal of Solid State Electrochemistry*, **2020**, 24, 1539-1549	2.6	9
45	3D "honeycomb" 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	5.6	9
44	Untargeted GC-TOFMS-based cellular metabolism analysis to evaluate ozone degradation effect of deoxynivalenol. *Toxicon*, **2019**, 168, 49-57	2.8	8
43	Toxicogenomic responses to zearalenone in Caenorhabditis elegans reveal possible molecular mechanisms of reproductive toxicity. *Food and Chemical Toxicology*, **2018**, 122, 49-58	4.7	8
42	Gas chromatography-mass spectrometry metabolomic study of lipopolysaccharides toxicity on rat basophilic leukemia cells. *Chemico-Biological Interactions*, **2018**, 281, 81-88	5	7
41	Current research progress of mammalian cell-based biosensors on the detection of foodborne pathogens and toxins. *Critical Reviews in Food Science and Nutrition*, **2020**, 1-17	11.5	7
40	A novel fluorescent molecularly imprinted polymer SiO @CdTe QDs@MIP for paraquat detection and adsorption. *Luminescence*, **2021**, 36, 345-352	2.5	7
39	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	4.4	6
38	Advances on the rapid and multiplex detection methods of food allergens. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-21	11.5	6
37	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	4.4	5
36	New insights into cytotoxicity induced by microcystin-LR, estradiol, and ractopamine with mathematical models: Individual and combined effects. *Chemosphere*, **2017**, 168, 223-233	8.4	5
35	Microbial detoxification of mycotoxins in food and feed. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-19	11.5	5
34	Untargeted metabolomics analysis by gas chromatography/time-of-flight mass spectrometry of human serum from methamphetamine abusers. *Addiction Biology*, **2021**, 26, e13062	4.6	5
33	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	7	5
32	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	4.4	5
31	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	11.8	5

30	A novel concentration gradient microfluidic chip for high-throughput antibiotic susceptibility testing of bacteria. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 1127-1136	4.4	5
29	One-step extraction and simultaneous quantitative fluorescence immunochromatography strip for AFB and Cd detection in grain. *Food Chemistry*, **2021**, 374, 131684	8.5	4
28	Comprehensive Analysis of the Components of Walnut Kernel (Juglans regia L.) in China. *Journal of Food Quality*, **2021**, 2021, 1-11	2.7	4
27	Adsorption of aflatoxins and ochratoxins in edible vegetable oils with dopamine-coated magnetic multi-walled carbon nanotubes. *Food Chemistry*, **2021**, 365, 130409	8.5	4
26	Fate of deoxynivalenol and degradation products degraded by aqueous ozone in contaminated wheat. *Food Research International*, **2020**, 137, 109357	7	3
25	Recent Advances in g-C N -Based Photocatalysts for Pollutant Degradation and Bacterial Disinfection: Design Strategies, Mechanisms, and Applications. *Small*, **2021**, e2105089	11	3
24	Current Progress on Antibiotic Sensing Based on Ratiometric Fluorescent Sensors. *Bulletin of Environmental Contamination and Toxicology*, **2021**, 107, 176-184	2.7	3
23	Immunization with functionalized carbon nanotubes enhances the antibody response against mode antigen ovalbumin. *Immunology Letters*, **2016**, 178, 77-84	4.1	3
22	MAPK/AP-1 and ROS participated in ratio- and time-dependent interaction effects of deoxynivalenol and cadmium on HT-29 cells. *Food and Chemical Toxicology*, **2021**, 148, 111921	4.7	3
21	Investigation into Cellular Glycolysis for the Mechanism Study of Energy Metabolism Disorder Triggered by Lipopolysaccharide. *Toxins*, **2018**, 10,	4.9	3
20	Perspective of Microbe-based Minerals Fortification in Nutrition Security. *Food Reviews International*, **2020**, 1-14	5.5	2
19	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	8.5	2
18	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**,	5.7	2
17	Diet composition affects long-term zearalenone exposure on the gut-blood-liver axis metabolic dysfunction in mice.. *Ecotoxicology and Environmental Safety*, **2022**, 236, 113466	7	2
16	Abnormal neurotransmission of GABA and serotonin in Caenorhabditis elegans induced by Fumonisin B1.. *Environmental Pollution*, **2022**, 119141	9.3	2
15	Degradation of Ochratoxin A by a UV-Mutated Aspergillus niger Strain. *Toxins*, **2022**, 14, 343	4.9	2
14	An FcRI-IgE-based genetically encoded microfluidic cell sensor for fast Gram-negative bacterial screening in food samples. *Analyst, The*, **2020**, 145, 2297-2304	5	1
13	A novel cell-based electrochemical biosensor based on MnO catalysis for antioxidant activity evaluation of anthocyanins.. *Biosensors and Bioelectronics*, **2022**, 202, 113990	11.8	1

12	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*, **2021**, 131682	8.5	1
11	Inhibition Mechanism of Berberine on Amylase and Glucosidase in Vitro. *Starch/Staerke*,2100231	2.3	1
10	Application of triple co-cultured cell spheroid model for exploring hepatotoxicity and metabolic pathway of AFB1. *Science of the Total Environment*, **2022**, 807, 150840	10.2	1
9	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	10.2	1
8	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	7	1
7	Recent advances in single-cell analysis: Encapsulation materials, analysis methods and integrative platform for microfluidic technology. *Talanta*, **2021**, 234, 122671	6.2	1
6	Astilbin from Roxb. alleviates high-fat diet-induced metabolic dysfunction.. *Food and Function*, **2022** ,	6.1	1
5	An improved overall risk probability-based method for assessing the combined health risks of chemical mixtures: An example about mixture of aflatoxin B and microcystin LR by dietary intake. *Food and Chemical Toxicology*, **2020**, 146, 111815	4.7	0
4	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	2.7	0
3	Universal fluorescence nanoprobes to enhance the sensitivity of immunochromatographic assay for detection of 17estradiol in milk. *Food Chemistry*, **2022**, 370, 131027	8.5	0
2	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*,1	3.4	0
1	Development of a non-targeted high-coverage microbial metabolomics pretreatment method and its application to drug resistant Salmonella. *Analytical Methods*, **2020**, 12, 1449-1459	3.2	