

Xiulan Sun

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.

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 cell-based electrochemical biosensor based on MnO catalysis for antioxidant activity evaluation of anthocyanins.. <i>Biosensors and Bioelectronics</i> , 2022 , 202, 113990	11.8	1
100	Application of triple co-cultured cell spheroid model for exploring hepatotoxicity and metabolic pathway of AFB1. <i>Science of the Total Environment</i> , 2022 , 807, 150840	10.2	1
99	A rapid and ultrasensitive dual detection platform based on Cas12a for simultaneous detection of virulence and resistance genes of drug-resistant Salmonella. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113682	11.8	5
98	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. <i>Food Chemistry</i> , 2022 , 366, 130572	8.5	2
97	Universal fluorescence nanoprobe to enhance the sensitivity of immunochromatographic assay for detection of 17 β -estradiol in milk. <i>Food Chemistry</i> , 2022 , 370, 131027	8.5	0
96	Astilbin from <i>Roxb.</i> alleviates high-fat diet-induced metabolic dysfunction.. <i>Food and Function</i> , 2022 , ,	6.1	1
95	Untargeted Metabolomic Profiling Reveals Changes in Gut Microbiota and Mechanisms of Its Regulation of Allergy in OVA-Sensitive BALB/c Mice.. <i>Journal of Agricultural and Food Chemistry</i> , 2022 ,	5.7	2
94	Diet composition affects long-term zearalenone exposure on the gut-blood-liver axis metabolic dysfunction in mice.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 236, 113466	7	2
93	Abnormal neurotransmission of GABA and serotonin in <i>Caenorhabditis elegans</i> induced by Fumonisin B1.. <i>Environmental Pollution</i> , 2022 , 119141	9.3	2
92	Degradation of Ochratoxin A by a UV-Mutated <i>Aspergillus niger</i> Strain. <i>Toxins</i> , 2022 , 14, 343	4.9	2
91	One-step extraction and simultaneous quantitative fluorescence immunochromatography strip for AFB and Cd detection in grain. <i>Food Chemistry</i> , 2021 , 374, 131684	8.5	4
90	Recent Advances in g-C N -Based Photocatalysts for Pollutant Degradation and Bacterial Disinfection: Design Strategies, Mechanisms, and Applications. <i>Small</i> , 2021 , e2105089	11	3
89	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. <i>Food Chemistry</i> , 2021 , 131682	8.5	1
88	Current Progress on Antibiotic Sensing Based on Ratiometric Fluorescent Sensors. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021 , 107, 176-184	2.7	3
87	Sensitive Techniques for POCT Sensing on the Residues of Pesticides and Veterinary Drugs in Food. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021 , 107, 206-214	2.7	0
86	Microbial detoxification of mycotoxins in food and feed. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-19	11.5	5
85	Advances on the rapid and multiplex detection methods of food allergens. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-21	11.5	6

84	Comprehensive Analysis of the Components of Walnut Kernel (<i>Juglans regia</i> L.) in China. <i>Journal of Food Quality</i> , 2021 , 2021, 1-11	2.7	4
83	Development of a living mammalian cell-based biosensor for the monitoring and evaluation of synergetic toxicity of cadmium and deoxynivalenol. <i>Science of the Total Environment</i> , 2021 , 771, 144823	10.2	1
82	3D "honeycomb" cell/carbon nanofiber/gelatin methacryloyl (GelMA) modified screen-printed electrode for electrochemical assessment of the combined toxicity of deoxynivalenol family mycotoxins. <i>Bioelectrochemistry</i> , 2021 , 139, 107743	5.6	9
81	Untargeted metabolomics analysis by gas chromatography/time-of-flight mass spectrometry of human serum from methamphetamine abusers. <i>Addiction Biology</i> , 2021 , 26, e13062	4.6	5
80	Effects of acid, alkaline, cold, and heat environmental stresses on the antibiotic resistance of the <i>Salmonella enterica</i> serovar Typhimurium. <i>Food Research International</i> , 2021 , 144, 110359	7	1
79	MAPK/AP-1 and ROS participated in ratio- and time-dependent interaction effects of deoxynivalenol and cadmium on HT-29 cells. <i>Food and Chemical Toxicology</i> , 2021 , 148, 111921	4.7	3
78	Opposite estrogen effects of estrone and 2-hydroxyestrone on MCF-7 sensitivity to the cytotoxic action of cell growth, oxidative stress and inflammation activity. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 209, 111754	7	5
77	Carbon dots-releasing hydrogels with antibacterial activity, high biocompatibility, and fluorescence performance as candidate materials for wound healing. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124330	12.8	22
76	A novel fluorescent molecularly imprinted polymer SiO ₂ @CdTe QDs@MIP for paraquat detection and adsorption. <i>Luminescence</i> , 2021 , 36, 345-352	2.5	7
75	One-step time-resolved fluorescence microsphere immunochromatographic test strip for quantitative and simultaneous detection of DON and ZEN. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 6489-6502	4.4	5
74	Recent advances in single-cell analysis: Encapsulation materials, analysis methods and integrative platform for microfluidic technology. <i>Talanta</i> , 2021 , 234, 122671	6.2	1
73	Adsorption of aflatoxins and ochratoxins in edible vegetable oils with dopamine-coated magnetic multi-walled carbon nanotubes. <i>Food Chemistry</i> , 2021 , 365, 130409	8.5	4
72	A novel concentration gradient microfluidic chip for high-throughput antibiotic susceptibility testing of bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 1127-1136	4.4	5
71	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. <i>Food and Chemical Toxicology</i> , 2020 , 146, 111815	4.7	0
70	Fate of deoxynivalenol and degradation products degraded by aqueous ozone in contaminated wheat. <i>Food Research International</i> , 2020 , 137, 109357	7	3
69	Rapid detection of antibiotic resistance in <i>Salmonella</i> with screen printed carbon electrodes. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 1539-1549	2.6	9
68	Development of a non-targeted high-coverage microbial metabolomics pretreatment method and its application to drug resistant <i>Salmonella</i> . <i>Analytical Methods</i> , 2020 , 12, 1449-1459	3.2	
67	An eco-friendly sensor based on CQD@MIPs for detection of N-acylated homoserine lactones and its 3D printing applications. <i>Talanta</i> , 2020 , 219, 121343	6.2	14

66	Carbon dots: Current advances in pathogenic bacteria monitoring and prospect applications. <i>Biosensors and Bioelectronics</i> , 2020 , 156, 112085	11.8	50
65	Perspective of Microbe-based Minerals Fortification in Nutrition Security. <i>Food Reviews International</i> , 2020 , 1-14	5.5	2
64	Deoxynivalenol: Masked forms, fate during food processing, and potential biological remedies. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 895-926	16.4	27
63	An Fc β I-IgE-based genetically encoded microfluidic cell sensor for fast Gram-negative bacterial screening in food samples. <i>Analyst, The</i> , 2020 , 145, 2297-2304	5	1
62	Removal of patulin in apple juice based on novel magnetic molecularly imprinted adsorbent Fe ₃ O ₄ @SiO ₂ @CS-GO@MIP. <i>LWT - Food Science and Technology</i> , 2020 , 118, 108854	5.4	27
61	Potential of <i>Caenorhabditis elegans</i> as an antiaging evaluation model for dietary phytochemicals: A review. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 3084-3105	16.4	10
60	Current research progress of mammalian cell-based biosensors on the detection of foodborne pathogens and toxins. <i>Critical Reviews in Food Science and Nutrition</i> , 2020 , 1-17	11.5	7
59	Loop-mediated isothermal amplification-based microfluidic chip for pathogen detection. <i>Critical Reviews in Food Science and Nutrition</i> , 2020 , 60, 201-224	11.5	29
58	Insights into cellular metabolic pathways of the combined toxicity responses of Caco-2 cells exposed to deoxynivalenol, zearalenone and Aflatoxin B. <i>Food and Chemical Toxicology</i> , 2019 , 126, 106-117	11.7	17
57	Untargeted GC-TOFMS-based cellular metabolism analysis to evaluate ozone degradation effect of deoxynivalenol. <i>Toxicon</i> , 2019 , 168, 49-57	2.8	8
56	High-throughput sequencing analysis of bacterial community composition and quality characteristics in refrigerated pork during storage. <i>Food Microbiology</i> , 2019 , 83, 86-94	6	42
55	A molecularly imprinted electrochemical sensor based on Au nanocross-chitosan composites for detection of paraquat. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1211-1220	2.6	9
54	The anti-aflatoxigenic mechanism of cinnamaldehyde in <i>Aspergillus flavus</i> . <i>Scientific Reports</i> , 2019 , 9, 10499	4.9	20
53	Red-Emissive Carbon Dots for "Switch-On" Dual Function Sensing Platform Rapid Detection of Ferric Ions and L-Cysteine in Living Cells. <i>ACS Omega</i> , 2019 , 4, 12575-12583	3.9	27
52	Ultrasensitive fluorometric determination of iron(III) and inositol hexaphosphate in cancerous and bacterial cells by using carbon dots with bright yellow fluorescence. <i>Analyst, The</i> , 2019 , 144, 5010-5021	5	21
51	Ultrasensitive Fluorometric Angling Determination of in Vitro and Fluorescence Imaging in Vivo Using Carbon Dots with Full-Color Emission. <i>Analytical Chemistry</i> , 2019 , 91, 14681-14690	7.8	29
50	Synergistical accumulation for electrochemical sensing of 1-hydroxypyrene on electroreduced graphene oxide electrode. <i>Talanta</i> , 2019 , 192, 387-394	6.2	15
49	A novel magnetic fluorescent biosensor based on graphene quantum dots for rapid, efficient, and sensitive separation and detection of circulating tumor cells. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 985-995	4.4	44

48	Recent progress on cell-based biosensors for analysis of food safety and quality control. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 389-404	11.8	59
47	Chemical and toxicological alterations of zearalenone under ozone treatment. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2019 , 36, 163-174	3.2	10
46	Explaining combinatorial effects of mycotoxins Deoxynivalenol and Zearalenone in mice with urinary metabolomic profiling. <i>Scientific Reports</i> , 2018 , 8, 3762	4.9	12
45	Trans-/multi-generational effects of deoxynivalenol on <i>Caenorhabditis elegans</i> . <i>Chemosphere</i> , 2018 , 201, 41-49	8.4	12
44	Numerical modeling of polymorphic transformation of oleic acid via near-infrared spectroscopy and factor analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 197, 153-158	4.4	5
43	Gas chromatography-mass spectrometry metabolomic study of lipopolysaccharides toxicity on rat basophilic leukemia cells. <i>Chemico-Biological Interactions</i> , 2018 , 281, 81-88	5	7
42	Ultrasensitive "FRET-SEF" Probe for Sensing and Imaging MicroRNAs in Living Cells Based on Gold Nanoconjugates. <i>Analytical Chemistry</i> , 2018 , 90, 3099-3108	7.8	18
41	Probing the stereoselective interaction of ofloxacin enantiomers with corresponding monoclonal antibodies by multiple spectrometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 194, 83-91	4.4	6
40	A novel electrochemical biosensor for antioxidant evaluation of phloretin based on cell-alginate/L-cysteine/gold nanoparticle-modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2018 , 119, 119-125	11.8	26
39	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. <i>Analytica Chimica Acta</i> , 2018 , 1031, 134-144	6.6	24
38	Cell Based-Green Fluorescent Biosensor Using Cytotoxic Pathway for Bacterial Lipopolysaccharide Recognition. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6869-6876	5.7	11
37	Investigation into Cellular Glycolysis for the Mechanism Study of Energy Metabolism Disorder Triggered by Lipopolysaccharide. <i>Toxins</i> , 2018 , 10,	4.9	3
36	Toxicogenomic responses to zearalenone in <i>Caenorhabditis elegans</i> reveal possible molecular mechanisms of reproductive toxicity. <i>Food and Chemical Toxicology</i> , 2018 , 122, 49-58	4.7	8
35	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. <i>Analytical Chemistry</i> , 2018 , 90, 11538-11547	7.8	20
34	Minireview: Trends in Optical-Based Biosensors for Point-Of-Care Bacterial Pathogen Detection for Food Safety and Clinical Diagnostics. <i>Analytical Letters</i> , 2018 , 51, 2933-2966	2.2	25
33	Individual and combined effects of Aflatoxin B, Deoxynivalenol and Zearalenone on HepG2 and RAW 264.7 cell lines. <i>Food and Chemical Toxicology</i> , 2017 , 103, 18-27	4.7	46
32	The disorder metabolic profiling in kidney and spleen of mice induced by mycotoxins deoxynivalenol through gas chromatography mass spectrometry. <i>Chemosphere</i> , 2017 , 180, 267-274	8.4	21
31	Development of a simple and convenient cell-based electrochemical biosensor for evaluating the individual and combined toxicity of DON, ZEN, and AFB. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 345-351	11.8	39

30	Combined toxicity of prevalent mycotoxins studied in fish cell line and zebrafish larvae revealed that type of interactions is dose-dependent. <i>Aquatic Toxicology</i> , 2017 , 193, 60-71	5.1	22
29	Simple, high efficiency detection of microcystins and nodularin-R in water by fluorescence polarization immunoassay. <i>Analytica Chimica Acta</i> , 2017 , 992, 119-127	6.6	19
28	Metabolomics Analysis To Evaluate the Anti-Inflammatory Effects of Polyphenols: Glabridin Reversed Metabolism Change Caused by LPS in RAW 264.7 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 6070-6079	5.7	30
27	Using fluorescence immunochromatographic test strips based on quantum dots for the rapid and sensitive determination of microcystin-LR. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 2213-2220	4.4	14
26	A novel molecularly imprinted electrochemical sensor modified with carbon dots, chitosan, gold nanoparticles for the determination of patulin. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 299-304	11.8	141
25	New insights into cytotoxicity induced by microcystin-LR, estradiol, and ractopamine with mathematical models: Individual and combined effects. <i>Chemosphere</i> , 2017 , 168, 223-233	8.4	5
24	The Antagonistic Effect of Mycotoxins Deoxynivalenol and Zearalenone on Metabolic Profiling in Serum and Liver of Mice. <i>Toxins</i> , 2017 , 9,	4.9	29
23	Magnetic molecularly imprinted polymer nanoparticles based electrochemical sensor for the measurement of Gram-negative bacterial quorum signaling molecules (N-acyl-homoserine-lactones). <i>Biosensors and Bioelectronics</i> , 2016 , 75, 411-9	11.8	77
22	Addendum: Yang, Z., et al. Multi-Toxic Endpoints of the Foodborne Mycotoxins in Nematode <i>Caenorhabditis elegans</i> . <i>Toxins (Basel)</i> , 2015, 7(12), 5224-5235. <i>Toxins</i> , 2016 , 8, 141	4.9	78
21	GC-TOF/MS-based metabolomic strategy for combined toxicity effects of deoxynivalenol and zearalenone on murine macrophage ANA-1 cells. <i>Toxicon</i> , 2016 , 120, 175-84	2.8	14
20	High-throughput living cell-based optical biosensor for detection of bacterial lipopolysaccharide (LPS) using a red fluorescent protein reporter system. <i>Scientific Reports</i> , 2016 , 6, 36987	4.9	23
19	GC-TOF/MS-based metabolomics approach to study the cellular immunotoxicity of deoxynivalenol on murine macrophage ANA-1 cells. <i>Chemico-Biological Interactions</i> , 2016 , 256, 94-101	5	15
18	A Sensitive and simple macrophage-based electrochemical biosensor for evaluating lipopolysaccharide cytotoxicity of pathogenic bacteria. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 349-357	11.8	20
17	A novel mast cell co-culture microfluidic chip for the electrochemical evaluation of food allergen. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 126-33	11.8	30
16	Immunization with functionalized carbon nanotubes enhances the antibody response against model antigen ovalbumin. <i>Immunology Letters</i> , 2016 , 178, 77-84	4.1	3
15	A highly selective and sensitive electrochemical CS-MWCNTs/Au-NPs composite DNA biosensor for <i>Staphylococcus aureus</i> gene sequence detection. <i>Talanta</i> , 2015 , 141, 300-6	6.2	29
14	DNA biosensor-based on fluorescence detection of <i>E. coli</i> O157:H7 by Au@Ag nanorods. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 239-45	11.8	34
13	Fluorescent magnetic bead-based mast cell biosensor for electrochemical detection of allergens in foodstuffs. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 482-90	11.8	47

12	Development of highly sensitive electrochemical genosensor based on multiwalled carbon nanotubes-chitosan-bismuth and lead sulfide nanoparticles for the detection of pathogenic <i>Aeromonas</i> . <i>Biosensors and Bioelectronics</i> , 2015 , 63, 399-406	11.8	45
11	Multilayer graphene-gold nanocomposite modified stem-loop DNA biosensor for peanut allergen-Ara h1 detection. <i>Food Chemistry</i> , 2015 , 172, 335-42	8.5	35
10	Multi-Toxic Endpoints of the Foodborne Mycotoxins in Nematode <i>Caenorhabditis elegans</i> . <i>Toxins</i> , 2015 , 7, 5224-35	4.9	22
9	An electrochemical sensor based on molecularly imprinted membranes on a P-ATP/AuNP modified electrode for the determination of acrylamide. <i>Analytical Methods</i> , 2014 , 6, 6452-6458	3.2	12
8	Surface-enhanced fluorescence immunosensor using Au nano-crosses for the detection of microcystin-LR. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 255-60	11.8	46
7	Biological detoxification of zearalenone by <i>Aspergillus niger</i> strain FS10. <i>Food and Chemical Toxicology</i> , 2014 , 72, 76-82	4.7	39
6	Determination of microcystin-LR with a glassy carbon impedimetric immunoelectrode modified with an ionic liquid and multiwalled carbon nanotubes. <i>Mikrochimica Acta</i> , 2013 , 180, 75-83	5.8	12
5	Preparation and application of acrylamide molecularly imprinted composite solid-phase extraction materials. <i>Analytical Methods</i> , 2012 , 4, 3760	3.2	14
4	Electrochemical detection of peanut allergen Ara h 1 using a sensitive DNA biosensor based on stem-loop probe. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 10979-84	5.7	36
3	Rapid detection of pork meat freshness by using L-cysteine-modified gold electrode. <i>European Food Research and Technology</i> , 2011 , 232, 425-431	3.4	19
2	Inhibition Mechanism of Berberine on α -Amylase and β -Glucosidase in Vitro. <i>Starch/Staerke</i> , 2100231	2.3	1
1	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. <i>Food Analytical Methods</i> , 1	3.4	0