Wan Chan

List of Publications by Year
in descending order

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Version: 2024-02-01

84 papers	1,812 citations	201674 27 h-index	330143 37 g-index
84 all docs	84 docs citations	84 times ranked	1748 citing authors

#	Article	IF	Citations
1	DNAâ€“Protein Cross-Links Formed by Reacting Lysine with Apurinic/Apyrimidinic Sites in DNA and Human Cells: Quantitative Analysis by Liquid Chromatographyâ€“Tandem Mass Spectrometry Coupled with Stable Isotope Dilution. Analytical Chemistry, 2022, 94, 803-810.	6.5	6
2	Synergistic Interaction of Polycyclic Aromatic Hydrocarbons, Phthalate Esters, or Phenol on DNA Adduct Formation by Aristolochic Acid I: Insights into the Etiology of Balkan Endemic Nephropathy. Chemical Research in Toxicology, 2022, , .	3.3	6
3	LC-MS/MS Quantitation of Formaldehydeâ€“Glutathione Conjugates as Biomarkers of Formaldehyde Exposure and Exposure-Induced Antioxidants: A New Look on an Old Topic. Chemical Research in Toxicology, 2022, 35, 858-866.	3.3	0
4	Wheatgrass (Triticum aestivum) as an Efficient Phytoremediation Plant for Aristolochic Acid-Contaminated Water and Arable Soil. ACS Agricultural Science and Technology, 2022, 2, 639-645.	2.3	5
5	Analysis of aristolochic acids in <scp>Houttuynia cordata</scp> by liquid chromatographyâ€“tandem mass spectrometry. Journal of Mass Spectrometry, 2021, 56, e4652.	1.6	11
6	Fabric Masks as a Personal Dosimeter for Quantifying Exposure to Airborne Polycyclic Aromatic Hydrocarbons. Environmental Science & Technology, 2021, 55, 5128-5135.	10.0	16
7	Formation, Stability, and Antioxidative Properties of 2-Methylthioproline and 2-Methylthioprolineglycine in Grape Wines. ACS Food Science & Technology, 2021, 1, 892-898.	2.7	0
8	Analysis of Polycyclic Aromatic Hydrocarbons and Phthalate Esters in Soil and Food Grains from the Balkan Peninsula: Implication on DNA Adduct Formation by Aristolochic Acid I and Balkan Endemic Nephropathy. Environmental Science & Technology, 2021, 55, 9024-9032.	10.0	13
9	Probing the Hidden Role of Mitochondrial DNA Damage and Dysfunction in the Etiology of Aristolochic Acid Nephropathy. Chemical Research in Toxicology, 2021, 34, 1903-1909.	3.3	10
10	Quantitation of Î³-Glutamylcysteineâ€“Formaldehyde Conjugate in Formaldehyde- and Oxidative Stress-Exposed Cells by Liquid Chromatographyâ€“Tandem Mass Spectrometry. Chemical Research in Toxicology, 2021, 34, 1782-1789.	3.3	0
11	On the Flip Side of Mask Wearing: Increased Exposure to Volatile Organic Compounds and a Risk-Reducing Solution. Environmental Science & Technology, 2021, 55, 14095-14104.	10.0	36
12	Quantitation of Protein Adducts of Aristolochic Acid I by Liquid Chromatographyâ€“Tandem Mass Spectrometry: A Novel Method for Biomonitoring Aristolochic Acid Exposure. Chemical Research in Toxicology, 2021, 34, 144-153.	3.3	11
13	Polyurethane-Based Face Mask as a Sampling Device for Environmental Tobacco Smoke. Analytical Chemistry, 2021, 93, 13912-13918.	6.5	5
14	Proteomic analysis of thioproline misincorporation in Escherichia coli. Journal of Proteomics, 2020, 210, 103541.	2.4	11
15	Liquid chromatographyâ€“tandem mass spectrometry analysis of aristolochic acids in soil samples collected from Serbia: Link to Balkan endemic nephropathy. Rapid Communications in Mass Spectrometry, 2020, 34, e8547.	1.5	15
16	Occurrence and Environmental Stability of Aristolochic Acids in Groundwater Collected from Serbia: Links to Human Exposure and Balkan Endemic Nephropathy. Environmental Science & Technology, 2020, 54, 1554-1561.	10.0	46
17	Determination of Aristolochic Acids in Vegetables: Nephrotoxic and Carcinogenic Environmental Pollutants Contaminating a Broad Swath of the Food Supply and Driving Incidence of Balkan Endemic Nephropathy. Chemical Research in Toxicology, 2020, 33, 2446-2454.	3.3	17
18	Proteomics Study of DNAâ€“Protein Crosslinks in Methylmethanesulfonate and Fe²⁺-EDTA-Exposed Human Cells. Chemical Research in Toxicology, 2020, 33, 2739-2744.	3.3	5

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19	Remediation of aristolochic acid-contaminated soil by an effective advanced oxidation process. Science of the Total Environment, 2020, 720, 137528.	8.0	15
20	Quantitation of DNA Adducts of Aristolochic Acids in Repair-Deficient Cells: A Mechanistic Study of the DNA Repair Mechanism. Chemical Research in Toxicology, 2020, 33, 1323-1327.	3.3	15
21	LC-MS/MS Coupled with a Stable-Isotope Dilution Method for the Quantitation of Thioproline-Glycine: A Novel Metabolite in Formaldehyde- and Oxidative Stress-Exposed Cells. Chemical Research in Toxicology, 2020, 33, 1989-1996.	3.3	7
22	Identifying Cysteine, N-Acetylcysteine, and Glutathione Conjugates as Novel Metabolites of Aristolochic Acid I: Emergence of a New Detoxification Pathway. Chemical Research in Toxicology, 2020, 33, 1374-1381.	3.3	17
23	Thioproline Serves as an Efficient Antioxidant Protecting Human Cells from Oxidative Stress and Improves Cell Viability. Chemical Research in Toxicology, 2020, 33, 1815-1821.	3.3	28
24	Quantitation of N⁶-Formyl-lysine Adduct Following Aristolochic Acid Exposure in Cells and Rat Tissues by Liquid Chromatography-Tandem Mass Spectrometry Coupled with Stable Isotope-Dilution Method. Chemical Research in Toxicology, 2019, 32, 2086-2094.	3.3	9
25	Revisiting Fragmentation Reactions of Protonated Î±-Amino Acids by High-Resolution Electrospray Ionization Tandem Mass Spectrometry with Collision-Induced Dissociation. Scientific Reports, 2019, 9, 6453.	3.3	67
26	Quantification of a Novel DNAâ€“Protein Cross-Link Product Formed by Reacting Apurinic/Apyrimidinic Sites in DNA with Cysteine Residues in Protein by Liquid Chromatography-Tandem Mass Spectrometry Coupled with the Stable Isotope-Dilution Method. Analytical Chemistry, 2019, 91, 4987-4994.	6.5	17
27	Development of a novel liquid chromatography-tandem mass spectrometric method for aristolochic acids detection: Application in food and agricultural soil analyses. Food Chemistry, 2019, 289, 673-679.	8.2	35
28	Aristolochic Acids: Newly Identified Exposure Pathways of this Class of Environmental and Food-Borne Contaminants and its Potential Link to Chronic Kidney Diseases. Toxics, 2019, 7, 14.	3.7	23
29	Gas-Phase Fragmentation Reactions of Protonated Cystine using High-Resolution Tandem Mass Spectrometry. Molecules, 2019, 24, 747.	3.8	3
30	Transcriptomic responses of the marine cyanobacterium Prochlorococcus to viral lysis products. Environmental Microbiology, 2019, 21, 2015-2028.	3.8	14
31	Quantitation of DNA Adducts in Target and Nontarget Organs of Aristolochic Acid I-Exposed Rats: Correlating DNA Adduct Levels with Organotropic Activities. Chemical Research in Toxicology, 2019, 32, 397-399.	3.3	24
32	Investigation of the chemical structure and formation mechanism of polydopamine from selfâ€assembly of dopamine by liquid chromatography/mass spectrometry coupled with isotopeâ€labelling techniques. Rapid Communications in Mass Spectrometry, 2019, 33, 429-436.	1.5	21
33	Evaluating the performance of sample preparation methods for ultraâ€performance liquid chromatography/mass spectrometry based serum metabonomics. Rapid Communications in Mass Spectrometry, 2019, 33, 561-568.	1.5	4
34	Singleâ€Turnover Kinetics Reveal a Distinct Mode of Thiamine Diphosphateâ€Dependent Catalysis in Vitaminâ€…K Biosynthesis. ChemBioChem, 2018, 19, 1514-1522.	2.6	3
35	Aristolochic Acids as Persistent Soil Pollutants: Determination of Risk for Human Exposure and Nephropathy from Plant Uptake. Journal of Agricultural and Food Chemistry, 2018, 66, 11468-11476.	5.2	36
36	Etiology of Balkan Endemic Nephropathy: An Update on Aristolochic Acids Exposure Mechanisms. Chemical Research in Toxicology, 2018, 31, 1109-1110.	3.3	22

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37	Quantification of DNA and Protein Adducts of 1-Nitropyrene: Significantly Higher Levels of Protein than DNA Adducts in the Internal Organs of 1-Nitropyrene Exposed Rats. Chemical Research in Toxicology, 2018, 31, 680-687.	3.3	10
38	Cooking methods employing natural anti-oxidant food additives effectively reduced concentration of nephrotoxic and carcinogenic aristolochic acids in contaminated food grains. Food Chemistry, 2018, 264, 270-276.	8.2	9
39	Development of a QuEChERS-Based Method for Determination of Carcinogenic 2-Nitrofluorene and 1-Nitropyrene in Rice Grains and Vegetables: A Comparative Study with Benzo[a]pyrene. Journal of Agricultural and Food Chemistry, 2017, 65, 1992-1999.	5.2	44
40	Plant Uptake and Metabolism of Nitrofuran Antibiotics in Spring Onion Grown in Nitrofuran-Contaminated Soil. Journal of Agricultural and Food Chemistry, 2017, 65, 4255-4261.	5.2	23
41	Comprehensive Analysis of Acylcarnitine Species in db/db Mouse Using a Novel Method of High-Resolution Parallel Reaction Monitoring Reveals Widespread Metabolic Dysfunction Induced by Diabetes. Analytical Chemistry, 2017, 89, 10368-10375.	6.5	33
42	Determination of 2-alkylcyclobutanones in ultraviolet light-irradiated fatty acids, triglycerides, corn oil, and pork samples: Identifying a new source of 2-alkylcyclobutanones. Food Chemistry, 2017, 217, 352-359.	8.2	6
43	A Thiamine-Dependent Enzyme Utilizes an Active Tetrahedral Intermediate in Vitamin K Biosynthesis. Journal of the American Chemical Society, 2016, 138, 7244-7247.	13.7	14
44	Facile Formation of a DNA Adduct of Semicarbazide on Reaction with Apurinic/Apyrimidinic Sites in DNA. Chemical Research in Toxicology, 2016, 29, 834-840.	3.3	15
45	Uptake and Accumulation of Nephrotoxic and Carcinogenic Aristolochic Acids in Food Crops Grown in Aristolochia clematitis-Contaminated Soil and Water. Journal of Agricultural and Food Chemistry, 2016, 64, 107-112.	5.2	37
46	Quantitation of the DNA Adduct of Semicarbazide in Organs of Semicarbazide-Treated Rats by Isotope-Dilution Liquid Chromatographyâ€“Tandem Mass Spectrometry: A Comparative Study with the RNA Adduct. Chemical Research in Toxicology, 2016, 29, 1560-1564.	3.3	16
47	Quantitation of Aristolochic Acids in Corn, Wheat Grain, and Soil Samples Collected in Serbia: Identifying a Novel Exposure Pathway in the Etiology of Balkan Endemic Nephropathy. Journal of Agricultural and Food Chemistry, 2016, 64, 5928-5934.	5.2	62
48	Identification of Protein Thiazolidination as a Novel Molecular Signature for Oxidative Stress and Formaldehyde Exposure. Chemical Research in Toxicology, 2016, 29, 1865-1871.	3.3	27
49	Determination of 2-alkylcyclobutanones by combining precolumn derivatization with 1-naphthalenyl hydrazine and ultra-performance liquid chromatography with fluorescence detection. Analytical and Bioanalytical Chemistry, 2016, 408, 3707-3714.	3.7	3
50	An investigation on the chemical structure of nitrogen and sulfurÂcodoped carbon nanoparticles by ultra-performance liquid chromatography-tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 5347-5357.	3.7	31
51	Elucidating the structure of carbon nanoparticles by ultra-performance liquid chromatography coupled with electrospray ionisation quadrupole time-of-flight tandem mass spectrometry. Analytica Chimica Acta, 2016, 911, 100-107.	5.4	14
52	Automated In-Injector Derivatization Combined with High-Performance Liquid Chromatographyâ€“Fluorescence Detection for the Determination of Semicarbazide in Fish and Bread Samples. Journal of Agricultural and Food Chemistry, 2016, 64, 2802-2808.	5.2	27
53	Quantitation of Thioprolines in Grape Wine by Isotope Dilutionâ€“Liquid Chromatographyâ€“Tandem Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2016, 64, 1361-1366.	5.2	12
54	Determination of DNA adducts by combining acid-catalyzed hydrolysis and chromatographic analysis of the carcinogen-modified nucleobases. Analytical and Bioanalytical Chemistry, 2016, 408, 953-961.	3.7	6

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55	Mass Spectrometric and Spectrofluorometric Studies of the Interaction of Aristolochic Acids with Proteins. Scientific Reports, 2015, 5, 15192.	3.3	4
56	Regulation of DNA phosphorothioate modification in Salmonella enterica by DndB. Scientific Reports, 2015, 5, 12368.	3.3	32
57	Comparison of DNA and RNA Adduct Formation: Significantly Higher Levels of RNA than DNA Modifications in the Internal Organs of Aristolochic Acid-Dosed Rats. Chemical Research in Toxicology, 2015, 28, 248-255.	3.3	36
58	Mass Spectrometric and Spectrophotometric Analyses Reveal an Alternative Structure and a New Formation Mechanism for Melanin. Analytical Chemistry, 2015, 87, 7958-7963.	6.5	35
59	Combination of Precolumn Nitro-reduction and Ultraperformance Liquid Chromatography with Fluorescence Detection for the Sensitive Quantification of 1-Nitronaphthalene, 2-Nitrofluorene, and 1-Nitropyrene in Meat Products. Journal of Agricultural and Food Chemistry, 2015, 63, 3161-3167.	5.2	35
60	Quantification of Aristolochic Acid-RNA Adducts in the Urine of Aristolochic Acid-Treated Rats by Liquid Chromatographyâ€“Tandem Mass Spectrometry. Chemical Research in Toxicology, 2015, 28, 567-569.	3.3	12
61	Metabolic fate of endogenous molecular damage: Urinary glutathione conjugates of DNA-derived base propenals as markers of inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4845-53.	7.1	11
62	Quantification of Thiazolidine-4-carboxylic Acid in Toxicant-Exposed Cells by Isotope-Dilution Liquid Chromatographyâ€“Mass Spectrometry Reveals an Intrinsic Antagonistic Response to Oxidative Stress-Induced Toxicity. Chemical Research in Toxicology, 2015, 28, 394-400.	3.3	11
63	A novel reversed-phase HPLC method for the determination of urinary creatinine by pre-column derivatization with ethyl chloroformate: comparative studies with the standard JaffÃ© and isotope-dilution mass spectrometric assays. Analytical and Bioanalytical Chemistry, 2014, 406, 1807-1812.	3.7	19
64	Determination of Aristolochic Acids by High-Performance Liquid Chromatography with Fluorescence Detection. Journal of Agricultural and Food Chemistry, 2014, 62, 5859-5864.	5.2	38
65	Noninvasive measurement of aristolochic acid-DNA adducts in urine samples from aristolochic acid-treated rats by liquid chromatography coupled tandem mass spectrometry: Evidence for DNA repair by nucleotide-excision repair mechanisms. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2014, 766-767, 1-6.	1.0	21
66	Rapid identification of Î³-irradiated food by direct solvent extraction and liquid chromatographyâ€“tandem mass spectrometric analysis of 2-dodecylcyclobutanone: Application in surveillance of irradiated food. Food Chemistry, 2014, 161, 312-316.	8.2	6
67	Combination of pentafluorophenylhydrazine derivatization and isotope dilution LC-MS/MS techniques for the quantification of apurinic/apyrimidinic sites in cellular DNA. Analytical and Bioanalytical Chemistry, 2013, 405, 4059-4066.	3.7	29
68	Capillary electrophoretic study of amine/carboxylic acid-functionalized carbon nanodots. Journal of Chromatography A, 2013, 1304, 234-240.	3.7	66
69	Probing Histidine-Stabilized Gold Nanoclusters Product by High-Performance Liquid Chromatography and Mass Spectrometry. Journal of Physical Chemistry C, 2013, 117, 18697-18708.	3.1	35
70	Investigation of the biotransformation of osthole by liquid chromatography/tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2013, 74, 156-161.	2.8	18
71	Quantification of the 2-Deoxyribonolactone and Nucleoside 5â€²-Aldehyde Products of 2-Deoxyribose Oxidation in DNA and Cells by Isotope-Dilution Gas Chromatography Mass Spectrometry: Differential Effects of Î³-Radiation and Fe2+â^'EDTA. Journal of the American Chemical Society, 2010, 132, 6145-6153.	13.7	59
72	Recent progress in quantitative analysis of DNA adducts of nephrotoxin aristolochic acid. Science in China Series B: Chemistry, 2009, 52, 1576-1582.	0.8	0

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73	A new approach for the sensitive determination of DNA adduct of aristolochic acid II by using high-performance liquid chromatography with fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 848-852.	2.3	3
74	Liquid chromatography/mass spectrometry for metabonomics investigation of the biochemical effects induced by aristolochic acid in rats: the use of informationâ€dependent acquisition for biomarker identification. Rapid Communications in Mass Spectrometry, 2008, 22, 873-880.	1.5	38
75	Characterization of the DNA adducts induced by aristolochic acids in oligonucleotides by electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 3735-3742.	1.5	9
76	Aristolochic acid induced changes in the metabolic profile of rat urine. Journal of Pharmaceutical and Biomedical Analysis, 2008, 46, 757-762.	2.8	28
77	Quantification of aristolochic acid-derived DNA adducts in rat kidney and liver by using liquid chromatographyâ€“electrospray ionization mass spectrometry. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 646, 17-24.	1.0	27
78	High performance liquid chromatographyâ€“mass spectrometry analysis for rat metabolism and pharmacokinetic studies of lithospermic acid B from danshen. Talanta, 2008, 75, 1002-1007.	5.5	18
79	Investigation of the Metabolism and Reductive Activation of Carcinogenic Aristolochic Acids in Rats. Drug Metabolism and Disposition, 2007, 35, 866-874.	3.3	55
80	A sensitivity enhanced high-performance liquid chromatography fluorescence method for the detection of nephrotoxic and carcinogenic aristolochic acid in herbal medicines. Journal of Chromatography A, 2007, 1164, 113-119.	3.7	57
81	Liquid chromatographyâ€”tandem mass spectrometry analysis of the DNA adducts of aristolochic acids. Journal of the American Society for Mass Spectrometry, 2007, 18, 642-650.	2.8	36
82	Study of the phase I and phase II metabolism of nephrotoxin aristolochic acid by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 1755-1760.	1.5	79
83	Differentiation of herbs linked to â€œChinese herb nephropathyâ€•from the liquid chromatographic determination of aristolochic acids. Analytica Chimica Acta, 2006, 576, 112-116.	5.4	28
84	Determination of Aristolochic Acids in Soil, Water, and Herbal Plants in Medicinal Plant Cultivation Areas: An Emerging Environmental Contaminant Worth Concerning. ACS Agricultural Science and Technology, 0, , .	2.3	5