

Mu-Rong Chao

List of Publications by Year in descending order

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80
papers

2,598
citations

159585

30
h-index

214800

47
g-index

83
all docs

83
docs citations

83
times ranked

3470
citing authors

#	ARTICLE	IF	CITATIONS
1	Human and Methodological Sources of Variability in the Measurement of Urinary 8-Oxo-7,8-dihydro-2- ϵ^2 -deoxyguanosine. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 2377-2391.	5.4	130
2	Toward consensus in the analysis of urinary 8-oxo-7,8-dihydro-2- ϵ^2 -deoxyguanosine as a noninvasive biomarker of oxidative stress. <i>FASEB Journal</i> , 2010, 24, 1249-1260.	0.5	126
3	Comparison of analyses of urinary 8-hydroxy-2- ϵ^2 -deoxyguanosine by isotope-dilution liquid chromatography with electrospray tandem mass spectrometry and by enzyme-linked immunosorbent assay. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 505-510.	1.5	113
4	Effects of methanol-containing additive on emission characteristics from a heavy-duty diesel engine. <i>Science of the Total Environment</i> , 2001, 279, 167-179.	8.0	111
5	Source identification and size distribution of atmospheric polycyclic aromatic hydrocarbons during rice straw burning period. <i>Atmospheric Environment</i> , 2006, 40, 1266-1274.	4.1	106
6	Characteristics of polycyclic aromatic hydrocarbons and total suspended particulate in indoor and outdoor atmosphere of a Taiwanese temple. <i>Journal of Hazardous Materials</i> , 2002, 95, 1-12.	12.4	100
7	Comparative syntheses of tetracycline-imprinted polymeric silicate and acrylate on CdTe quantum dots as fluorescent sensors. <i>Biosensors and Bioelectronics</i> , 2014, 61, 471-477.	10.1	77
8	Urinary analysis of 8-oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2- ϵ^2 -deoxyguanosine by isotope-dilution LC-MS/MS with automated solid-phase extraction: Study of 8-oxo-7,8-dihydroguanine stability. <i>Free Radical Biology and Medicine</i> , 2010, 48, 89-97.	2.9	70
9	Characterization of multiple airborne particulate metals in the surroundings of a municipal waste incinerator in Taiwan. <i>Atmospheric Environment</i> , 2003, 37, 2845-2852.	4.1	64
10	Effect of methanol-containing additive on the emission of carbonyl compounds from a heavy-duty diesel engine. <i>Journal of Hazardous Materials</i> , 2000, 73, 39-54.	12.4	62
11	Clinical-Scale High-Throughput Analysis of Urinary 8-Oxo-7,8-Dihydro-2- ϵ^2 -Deoxyguanosine by Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry with On-Line Solid-Phase Extraction. <i>Clinical Chemistry</i> , 2006, 52, 1381-1388.	3.2	62
12	Prevention of artifactual oxidation in determination of cellular 8-oxo-7,8-dihydro-2- ϵ^2 -deoxyguanosine by isotope-dilution LC-MS/MS with automated solid-phase extraction. <i>Free Radical Biology and Medicine</i> , 2008, 44, 464-473.	2.9	59
13	CYP450-mediated mitochondrial ROS production involved in arecoline <i>N</i> -oxide-induced oxidative damage in liver cell lines. <i>Environmental Toxicology</i> , 2018, 33, 1029-1038.	4.0	57
14	Determination of urinary malondialdehyde by isotope dilution LC-MS/MS with automated solid-phase extraction: A cautionary note on derivatization optimization. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1823-1829.	2.9	51
15	Biomarkers of nucleic acid oxidation - A summary state-of-the-art. <i>Redox Biology</i> , 2021, 42, 101872.	9.0	51
16	Particle size distribution of polycyclic aromatic hydrocarbons in motorcycle exhaust emissions. <i>Journal of Hazardous Materials</i> , 2005, 125, 154-159.	12.4	47
17	Clinical relevance of guanine-derived urinary biomarkers of oxidative stress, determined by LC-MS/MS. <i>Redox Biology</i> , 2019, 20, 556-565.	9.0	47
18	Approaching gas-particle partitioning equilibrium of atmospheric PCDD/Fs with increasing distance from an incinerator: measurements and observations on modeling. <i>Atmospheric Environment</i> , 2004, 38, 1501-1510.	4.1	44

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19	Children are particularly vulnerable to environmental tobacco smoke exposure: Evidence from biomarkers of tobacco-specific nitrosamines, and oxidative stress. <i>Environment International</i> , 2018, 120, 238-245.	10.0	44
20	Repeated Measurements of Urinary Methylated/Oxidative DNA Lesions, Acute Toxicity, and Mutagenicity in Coke Oven Workers. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2008, 17, 3381-3389.	2.5	41
21	Glass substrates crosslinked with tetracycline-imprinted polymeric silicate and CdTe quantum dots as fluorescent sensors. <i>Analytica Chimica Acta</i> , 2016, 925, 61-69.	5.4	38
22	Hydrophilic ionic liquid-passivated CdTe quantum dots for mercury ion detection. <i>Biosensors and Bioelectronics</i> , 2013, 42, 397-402.	10.1	37
23	Assessing the influence of methanol-containing additive on biological characteristics of diesel exhaust emissions using microtox and mutatox assays. <i>Science of the Total Environment</i> , 2002, 284, 61-74.	8.0	36
24	Effects of arsenic exposure among semiconductor workers: A cautionary note on urinary 8-oxo-7,8-dihydro-2 β -deoxyguanosine. <i>Free Radical Biology and Medicine</i> , 2006, 40, 1273-1278.	2.9	35
25	High-Throughput Simultaneous Analysis of Five Urinary Metabolites of Areca Nut and Tobacco Alkaloids by Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry with On-Line Solid-Phase Extraction. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010, 19, 2570-2581.	2.5	35
26	Correlation between concentrations of 8-oxo-7,8-dihydro-2 β -deoxyguanosine in urine, plasma and saliva measured by on-line solid-phase extraction LC-MS/MS. <i>Clinica Chimica Acta</i> , 2010, 411, 1218-1222.	1.1	35
27	Fluorescent turn-on detection of cysteine using a molecularly imprinted polyacrylate linked to allylthiol-capped CdTe quantum dots. <i>Mikrochimica Acta</i> , 2014, 181, 1085-1091.	5.0	34
28	8-Oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2 β -deoxyguanosine concentrations in various human body fluids: implications for their measurement and interpretation. <i>Archives of Toxicology</i> , 2015, 89, 201-210.	4.2	34
29	Quantitative determination of urinary N7-ethylguanine in smokers and non-smokers using an isotope dilution liquid chromatography/tandem mass spectrometry with on-line analyte enrichment. <i>Carcinogenesis</i> , 2005, 27, 146-151.	2.8	30
30	Quantification of Blood Betel Quid Alkaloids and Urinary 8-Hydroxydeoxyguanosine in Humans and their Association with Betel Chewing Habits. <i>Journal of Analytical Toxicology</i> , 2010, 34, 325-331.	2.8	30
31	Simultaneous Detection of 3-Nitrotyrosine and 3-Nitro-4-hydroxyphenylacetic Acid in Human Urine by Online SPE LC-MS/MS and Their Association with Oxidative and Methylated DNA Lesions. <i>Chemical Research in Toxicology</i> , 2015, 28, 997-1006.	3.3	30
32	Nickel accumulation in lung tissues is associated with increased risk of p53 mutation in lung cancer patients. <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 624-632.	2.2	29
33	Size distribution of particle-bound polychlorinated dibenzo-p-dioxins and dibenzofurans in the ambient air of a municipal incinerator. <i>Atmospheric Environment</i> , 2003, 37, 4945-4954.	4.1	28
34	Urinary DNA adductomics – A novel approach for exposomics. <i>Environment International</i> , 2018, 121, 1033-1038.	10.0	28
35	Novel approach to integrated DNA adductomics for the assessment of in vitro and in vivo environmental exposures. <i>Archives of Toxicology</i> , 2018, 92, 2665-2680.	4.2	28
36	Rapid and sensitive quantification of urinary N7-methylguanine by isotope-dilution liquid chromatography/electrospray ionization tandem mass spectrometry with on-line solid-phase extraction. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2427-2432.	1.5	27

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37	Direct analysis of tobacco-specific nitrosamine NNK and its metabolite NNAL in human urine by LC-MS/MS: evidence of linkage to methylated DNA lesions. Archives of Toxicology, 2014, 88, 291-299.	4.2	27
38	Trace analysis of methylated and hydroxymethylated cytosines in DNA by isotope-dilution LC-MS/MS: first evidence of DNA methylation in <i>Caenorhabditis elegans</i> . Biochemical Journal, 2015, 465, 39-47.	3.7	27
39	Direct-Acting DNA Alkylating Agents Present in Aqueous Extracts of Areca Nut and Its Products. Chemical Research in Toxicology, 2012, 25, 2386-2392.	3.3	25
40	Direct Analysis of 5-Methylcytosine and 5-Methyl-2-deoxycytidine in Human Urine by Isotope Dilution LC-MS/MS: Correlations with N-Methylated Purines and Oxidized DNA Lesions. Chemical Research in Toxicology, 2012, 25, 462-470.	3.3	25
41	A high-throughput method based on microwave-assisted extraction and liquid chromatography-tandem mass spectrometry for simultaneous analysis of amphetamines, ketamine, opiates, and their metabolites in hair. Analytical and Bioanalytical Chemistry, 2014, 406, 2445-2455.	3.7	25
42	Optimization of global DNA methylation measurement by LC-MS/MS and its application in lung cancer patients. Analytical and Bioanalytical Chemistry, 2013, 405, 8859-8869.	3.7	24
43	1-Hydroxypyrene as a biomarker for assessing the effects of exposure to polycyclic aromatic hydrocarbons on semen quality and sperm DNA integrity. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 152-158.	1.7	24
44	Sperm quality and DNA integrity of coke oven workers exposed to polycyclic aromatic hydrocarbons. International Journal of Occupational Medicine and Environmental Health, 2016, 29, 915-926.	1.3	24
45	Simultaneous determination of N7-alkylguanines in DNA by isotope-dilution LC-tandem MS coupled with automated solid-phase extraction and its application to a small fish model. Biochemical Journal, 2007, 402, 483-490.	3.7	23
46	Urinary nitrite/nitrate ratio measured by isotope-dilution LC-MS/MS as a tool to screen for urinary tract infections. Free Radical Biology and Medicine, 2016, 93, 77-83.	2.9	23
47	Emission of trans,trans-2,4-decadienal from restaurant exhausts to the atmosphere. Atmospheric Environment, 2007, 41, 5327-5333.	4.1	22
48	Sperm DNA oxidative damage and DNA adducts. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2015, 794, 75-82.	1.7	22
49	Simultaneous quantification of methylated purines in DNA by isotope dilution LC-MS/MS coupled with automated solid-phase extraction. Analytical and Bioanalytical Chemistry, 2012, 402, 1199-1208.	3.7	21
50	Fluorometric determination of copper(II) using CdTe quantum dots coated with 1-(2-thiazolylazo)-2-naphthol and an ionic liquid. Mikrochimica Acta, 2016, 183, 1323-1332.	5.0	18
51	PM2.5 and Associated Polycyclic Aromatic Hydrocarbon and Mutagenicity Emissions from Motorcycles. Bulletin of Environmental Contamination and Toxicology, 2008, 81, 412-415.	2.7	17
52	The exposure of temple workers to polycyclic aromatic hydrocarbons. Science of the Total Environment, 2008, 401, 44-50.	8.0	16
53	Environmental Exposure to Polycyclic Aromatic Hydrocarbons and Total Suspended Particulates in a Taiwanese Temple. Bulletin of Environmental Contamination and Toxicology, 2001, 67, 332-338.	2.7	15
54	Epigenetically modified nucleotides in chronic heroin and cocaine treated mice. Toxicology Letters, 2014, 229, 451-457.	0.8	15

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55	Elevated urinary levels of carcinogenic N-nitrosamines in patients with urinary tract infections measured by isotope dilution online SPE LC-MS/MS. <i>Journal of Hazardous Materials</i> , 2016, 310, 207-216.	12.4	15
56	Sulfotransferase 1A1 and glutathione S-transferase P1 genetic polymorphisms modulate the levels of urinary 8-hydroxy-2'-deoxyguanosine in betel quid chewers. <i>Archives of Toxicology</i> , 2008, 82, 313-321.	4.2	14
57	Oxidatively damaged DNA induced by humic acid and arsenic in maternal and neonatal mice. <i>Chemosphere</i> , 2010, 79, 93-99.	8.2	14
58	Quantitative determination of urinary N3-methyladenine by isotope-dilution LC-MS/MS with automated solid-phase extraction. <i>International Journal of Mass Spectrometry</i> , 2011, 304, 68-73.	1.5	14
59	DNA Crosslinkomics: A Tool for the Comprehensive Assessment of Interstrand Crosslinks Using High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 15193-15203.	6.5	14
60	No observed effect concentrations in batch and continuous algal toxicity tests. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 1589-1596.	4.3	12
61	Sensitive Detection of 8-Nitroguanine in DNA by Chemical Derivatization Coupled with Online Solid-Phase Extraction LC-MS/MS. <i>Molecules</i> , 2018, 23, 605.	3.8	12
62	Influence of skin melanisation and ultraviolet radiation on biomarkers of systemic oxidative stress. <i>Free Radical Biology and Medicine</i> , 2020, 160, 40-46.	2.9	12
63	Discrepancies between different response parameters in batch and continuous algal toxicity tests. <i>Journal of Hazardous Materials</i> , 2001, 82, 129-136.	12.4	11
64	Simultaneous determination of areca nut- and tobacco-specific alkaloids in saliva by LC-MS/MS: Distribution and transformation of alkaloids in oral cavity. <i>Journal of Hazardous Materials</i> , 2022, 426, 128116.	12.4	11
65	Nucleic Acid Oxidation in Human Health and Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-2.	4.0	10
66	Alkylating and oxidative stresses in smoking and non-smoking patients with COPD: Implications for lung carcinogenesis. <i>Free Radical Biology and Medicine</i> , 2021, 164, 99-106.	2.9	10
67	A Study on Losses of PAHs During Sample Concentration for Chromatographic Analysis: Evaporation with a Stream of Nitrogen. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 80, 13-26.	3.3	9
68	Is high resolution a strict requirement for mass spectrometry-based cellular DNA adductomics?. <i>Chemosphere</i> , 2021, 274, 129991.	8.2	9
69	Association between oxidized nucleobases and mitochondrial DNA damage with long-term mortality in patients with sepsis. <i>Free Radical Biology and Medicine</i> , 2022, 179, 156-163.	2.9	9
70	Modification of urinary N7-methylguanine excretion in smokers by glutathione-S-transferase M1 polymorphism. <i>Toxicology</i> , 2009, 260, 1-6.	4.2	7
71	¹⁵ N-labelled nitrite/nitrate tracer analysis by LC-MS/MS: Urinary and fecal excretion of nitrite/nitrate following oral administration to mice. <i>Free Radical Biology and Medicine</i> , 2019, 143, 193-202.	2.9	7
72	Efficient stripping of photoresist on metallized wafers by a pause flow of supercritical fluid. <i>Journal of Hazardous Materials</i> , 2009, 169, 153-157.	12.4	6

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73	Time course evaluation of N-nitrosodialkylamines-induced DNA alkylation and oxidation in liver of mosquito fish. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009, 660, 33-39.	1.0	5
74	Comprehensive analysis of the formation and stability of peroxyxynitrite-derived 8-nitroguanine by LC-MS/MS: Strategy for the quantitative analysis of cellular 8-nitroguanine. <i>Free Radical Biology and Medicine</i> , 2016, 101, 348-355.	2.9	5
75	Markers of oxidative stress and toxicant exposure among young waterpipe smokers in the USA. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26677-26683.	5.3	5
76	Global DNA methylation levels in white blood cells of patients with chronic heroin use disorder. A prospective study. <i>Toxicology Reports</i> , 2021, 8, 337-342.	3.3	4
77	Direct-acting DNA ethylating agents associated with tobacco use primarily originate from the tobacco itself, not combustion. <i>Journal of Hazardous Materials</i> , 2018, 358, 397-404.	12.4	3
78	Mixture analysis on associations between semen quality and sperm DNA integrity and occupational exposure to polycyclic aromatic hydrocarbons. <i>Archives of Environmental and Occupational Health</i> , 2023, 78, 14-27.	1.4	3
79	Validation of a high-throughput method for simultaneous determination of areca nut and tobacco biomarkers in hair using microwave-assisted extraction and isotope dilution liquid chromatography tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 216, 114775.	2.8	3
80	Editorial: Mass Spectrometry for Adductomic Analysis. <i>Frontiers in Chemistry</i> , 2019, 7, 794.	3.6	1