Chao Zhao

List of Publications by Year
in descending order

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41 papers	1,438 citations	393982 19 h-index	329751 37 g-index
42 all docs	42 docs citations	42 times ranked	2175 citing authors

#	Article	IF	Citations
1	Ascorbic Acid Enhances Tet-Mediated 5-Methylcytosine Oxidation and Promotes DNA Demethylation in Mammals. Journal of the American Chemical Society, 2013, 135, 10396-10403.	6.6	499
2	Redox-active quinones induces genome-wide DNA methylation changes by an iron-mediated and Tet-dependent mechanism. Nucleic Acids Research, 2014, 42, 1593-1605.	6.5	106
3	MALDI-MS Imaging Reveals Asymmetric Spatial Distribution of Lipid Metabolites from Bisphenol S-Induced Nephrotoxicity. Analytical Chemistry, 2018, 90, 3196-3204.	3.2	73
4	Bisphenol S exposure modulate macrophage phenotype as defined by cytokines profiling, global metabolomics and lipidomics analysis. Science of the Total Environment, 2017, 592, 357-365.	3.9	69
5	High performance aptamer affinity chromatography for single-step selective extraction and screening of basic protein lysozyme. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 903, 112-117.	1.2	63
6	An Ammonium Bicarbonate-Enhanced Stable Isotope Dilution UHPLC-MS/MS Method for Sensitive and Accurate Quantification of Acroleinâ€“DNA Adducts in Human Leukocytes. Analytical Chemistry, 2013, 85, 3190-3197.	3.2	43
7	Bisphenol S induced epigenetic and transcriptional changes in human breast cancer cell line MCF-7. Environmental Pollution, 2019, 246, 697-703.	3.7	42
8	Investigation on fragmentation pathways of bisphenols by using electrospray ionization Orbitrap mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 1901-1913.	0.7	39
9	Liquid chromatography-mass spectrometry-based metabolomics and lipidomics reveal toxicological mechanisms of bisphenol F in breast cancer xenografts. Journal of Hazardous Materials, 2018, 358, 503-507.	6.5	37
10	Interaction of bisphenol A 3,4-quinone metabolite with glutathione and ribonucleosides/deoxyribonucleosides in vitro. Journal of Hazardous Materials, 2017, 323, 195-202.	6.5	31
11	Omics approach reveals metabolic disorders associated with the cytotoxicity of airborne particulate matter in human lung carcinomaÂcells. Environmental Pollution, 2019, 246, 45-52.	3.7	31
12	Breast cancer proliferation and deterioration-associated metabolic heterogeneity changes induced by exposure of bisphenol S, a widespread replacement of bisphenol A. Journal of Hazardous Materials, 2021, 414, 125391.	6.5	30
13	Boronic acid-mediated polymerase chain reaction for gene- and fragment-specific detection of 5-hydroxymethylcytosine. Nucleic Acids Research, 2014, 42, e81-e81.	6.5	25
14	Immunotoxic Potential of Bisphenol F Mediated through Lipid Signaling Pathways on Macrophages. Environmental Science & Technology, 2019, 53, 11420-11428.	4.6	23
15	Airborne fine particulate matter induces cognitive and emotional disorders in offspring mice exposed during pregnancy. Science Bulletin, 2021, 66, 578-591.	4.3	23
16	Metabolic perturbation, proliferation and reactive oxygen species jointly contribute to cytotoxicity of human breast cancer cell induced by tetrabromo and tetrachloro bisphenol A. Ecotoxicology and Environmental Safety, 2019, 170, 495-501.	2.9	21
17	Colorimetric detection of single base-pair mismatches based on the interactions of PNA and PNA/DNA complexes with unmodified gold nanoparticles. Colloids and Surfaces B: Biointerfaces, 2019, 181, 333-340.	2.5	20
18	Prenatal exposure to ambient fine particulate matter induces dysregulations of lipid metabolism in adipose tissue in male offspring. Science of the Total Environment, 2019, 657, 1389-1397.	3.9	20

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19	Threeâ€dimensional quantitative mass spectrometry imaging in complex system: From subcellular to whole organism. Mass Spectrometry Reviews, 2022, 41, 469-487.	2.8	20
20	Identification of glycerophospholipid fatty acid remodeling by using mass spectrometry imaging in bisphenol S induced mouse liver. Chinese Chemical Letters, 2018, 29, 1281-1283.	4.8	19
21	Evaluation of the splenic injury following exposure of mice to bisphenol S: A mass spectrometry-based lipidomics and imaging analysis. Environment International, 2020, 135, 105378.	4.8	19
22	Data Filtering and Its Prioritization in Pipelines for Spatial Segmentation of Mass Spectrometry Imaging. Analytical Chemistry, 2021, 93, 4788-4793.	3.2	17
23	Preparation of Frozen Sections of Multicellular Tumor Spheroids Coated with Ice for Mass Spectrometry Imaging. Analytical Chemistry, 2020, 92, 7413-7418.	3.2	16
24	Ultrahigh-transparency and pressure-sensitive iontronic device for tactile intelligence. Npj Flexible Electronics, 2022, 6, .	5.1	16
25	Integration of proteomics and metabolomics reveals promotion of proliferation by exposure of bisphenol S in human breast epithelial MCF-10A cells. Science of the Total Environment, 2020, 712, 136453.	3.9	15
26	A peptide nucleic acidâ€“regulated fluorescence resonance energy transfer DNA assay based on the use of carbon dots and gold nanoparticles. Mikrochimica Acta, 2020, 187, 375.	2.5	14
27	Determination of bisphenol A and bisphenol S in sacked mouse foods by liquid chromatography-tandem mass spectrometry. International Journal of Mass Spectrometry, 2018, 434, 17-22.	0.7	12
28	Label-free colorimetric aptasensor for highly sensitive and selective detection of proteins by using PNA/DNA hybrids and a cyanine dye. Analytical Methods, 2018, 10, 3824-3829.	1.3	12
29	Mass spectrometry imaging-based multi-modal technique: Next-generation of biochemical analysis strategy. Innovation(China), 2021, 2, 100151.	5.2	12
30	Effects of PM2.5 exposure in utero on heart injury, histone acetylation and GATA4 expression in offspring mice. Chemosphere, 2020, 256, 127133.	4.2	12
31	Plastic antibody for DNA damage: fluorescent imaging of BPDEâ€“dG adducts in genomic DNA. Analyst, The, 2013, 138, 4958.	1.7	10
32	Capillary Monolithic Bioreactor of Immobilized Snake Venom Phosphodiesterase for Mass Spectrometry Based Oligodeoxynucleotide Sequencing. Analytical Chemistry, 2012, 84, 1157-1164.	3.2	9
33	Highly sensitive and specific screening of EGFR mutation using a PNA microarray-based fluorometric assay based on rolling circle amplification and graphene oxide. RSC Advances, 2019, 9, 38298-38308.	1.7	8
34	MALDI-MS-based biomarker analysis of extracellular vesicles from human lung carcinoma cells. RSC Advances, 2021, 11, 25375-25380.	1.7	8
35	Ultra-small sepiolite fiber toughened alumina aerogel with enhanced thermal stability and machinability. Journal of Porous Materials, 2020, 27, 1535-1546.	1.3	7
36	A PNAâ€DNA₂ Tripleâ€Helix Molecular Switchâ€Based Colorimetric Sensor for Sensitive and Specific Detection of microRNAs from Cancer Cells. ChemBioChem, 2020, 21, 2667-2675.	1.3	6

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37	A System-Wide Spatiotemporal Characterization of ErbB Receptor Complexes by Subcellular Fractionation Integrated Quantitative Mass Spectrometry. Analytical Chemistry, 2021, 93, 7933-7941.	3.2	5
38	The Progress on Sequencing and Detection of Hydroxymethylated DNA. Acta Chimica Sinica, 2013, 71, 26.	0.5	4
39	Glucosylation Mediated Rolling Circle Amplification Combined with a qPCR Assay for the Detection of 5-Hydroxymethylcytosine. Analytical Sciences, 2016, 32, 963-968.	0.8	1
40	Airborne particulate matter and its organic components: Complex triggers of human disease. , 2021, , 193-206.		1
41	How does gestational PM_{2.5} exposure affect the offspring behaviors?. Chinese Science Bulletin, 2020, 65, 3849-3850.	0.4	0