Claudia S Maier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Acrolein: Sources, metabolism, and biomolecular interactions relevant to human health and disease. Molecular Nutrition and Food Research, 2008, 52, 7-25.	1.5	586
2	The effect of the source pressure on the abundance of ions of noncovalent protein assemblies in an electrospray ionization orthogonal time-of-flight instrument. Rapid Communications in Mass Spectrometry, 2001, 15, 596-601.	0.7	194
3	Isolation and identification of antioxidant peptides from enzymatically hydrolyzed rice bran protein. Food Chemistry, 2016, 192, 156-162.	4.2	192
4	The chemistry of gut microbial metabolism of polyphenols. Phytochemistry Reviews, 2016, 15, 425-444.	3.1	161
5	Centella asiatica: phytochemistry and mechanisms of neuroprotection and cognitive enhancement. Phytochemistry Reviews, 2018, 17, 161-194.	3.1	144
6	Supercomplexes of the mitochondrial electron transport chain decline in the aging rat heart. Archives of Biochemistry and Biophysics, 2009, 490, 30-35.	1.4	111
7	Caffeoylquinic acids: chemistry, biosynthesis, occurrence, analytical challenges, and bioactivity. Plant Journal, 2021, 107, 1299-1319.	2.8	87
8	Site-Specific Amide Hydrogen/Deuterium Exchange inE. coliThioredoxins Measured by Electrospray Ionization Mass Spectrometry. Journal of the American Chemical Society, 2001, 123, 9860-9866.	6.6	80
9	The Wewakpeptins, Cyclic Depsipeptides from a Papua New Guinea Collection of the Marine CyanobacteriumLyngbyasemiplena. Journal of Organic Chemistry, 2005, 70, 3133-3139.	1.7	78
10	Caffeoylquinic Acids in Centella asiatica Protect against Amyloid-β Toxicity. Journal of Alzheimer's Disease, 2014, 40, 359-373.	1.2	78
11	New Role for an Old Probe:Â Affinity Labeling of Oxylipid Protein Conjugates byNâ€~-Aminooxymethylcarbonylhydrazinod-biotin. Analytical Chemistry, 2006, 78, 6847-6854.	3.2	76
12	Epigallocatechin gallate (EGCG) potentiates the cytotoxicity of rotenone in neuroblastoma SH-SY5Y cells. Brain Research, 2007, 1176, 133-142.	1.1	76
13	Protein composition of the outermost exosporium-like layer of Clostridium difficile 630 spores. Journal of Proteomics, 2015, 123, 1-13.	1.2	73
14	Protein Conformations, Interactions, and H/D Exchange. Methods in Enzymology, 2005, 402, 312-360.	0.4	72
15	Site-Specific Protein Adducts of 4-Hydroxy-2(<i>E</i>)-Nonenal in Human THP-1 Monocytic Cells: Protein Carbonylation Is Diminished by Ascorbic Acid. Chemical Research in Toxicology, 2010, 23, 37-47.	1.7	66
16	Design, Synthesis, and Application of a Hydrazide-Functionalized Isotope-Coded Affinity Tag for the Quantification of Oxylipidâ^Protein Conjugates. Analytical Chemistry, 2007, 79, 3342-3354.	3.2	63
17	Exosomes from Osteosarcoma and normal osteoblast differ in proteomic cargo and immunomodulatory effects on T cells. Experimental Cell Research, 2017, 358, 369-376.	1.2	58
18	Site-specific proteomic analysis of lipoxidation adducts in cardiac mitochondria reveals chemical diversity of 2-alkenal adduction Journal of Proteomics, 2011, 74, 2417-2429	1.2	57

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19	Mitochondria-Centric Review of Polyphenol Bioactivity in Cancer Models. Antioxidants and Redox Signaling, 2018, 29, 1589-1611.	2.5	57
20	Thermal Denaturation of Escherichia coli Thioredoxin Studied by Hydrogen/Deuterium Exchange and Electrospray Ionization Mass Spectrometry:  Monitoring a Two-State Protein Unfolding Transition. Biochemistry, 1999, 38, 1136-1143.	1.2	53
21	Non-estrogenic Xanthohumol Derivatives Mitigate Insulin Resistance and Cognitive Impairment in High-Fat Diet-induced Obese Mice. Scientific Reports, 2018, 8, 613.	1.6	53
22	Isolation and Identification of Tyrosinase-Inhibitory and Copper-Chelating Peptides from Hydrolyzed Rice-Bran-Derived Albumin. Journal of Agricultural and Food Chemistry, 2018, 66, 8346-8354.	2.4	52
23	Probing metal ion binding and conformational properties of the colicin E9 endonuclease by electrospray ionization time-of-flight mass spectrometry. Protein Science, 2009, 11, 1738-1752.	3.1	51
24	Reductive Metabolism of Xanthohumol and 8â€₽renylnaringenin by the Intestinal Bacterium <i>Eubacterium ramulus</i> . Molecular Nutrition and Food Research, 2019, 63, e1800923.	1.5	42
25	Detection of carbonylâ€modified proteins in interfibrillar rat mitochondria using <i>N′</i> â€aminooxymethylcarbonylhydrazinoâ€ <scp>D</scp> â€biotin as an aldehyde/ketoâ€reactive probe in combination with Western blot analysis and tandem mass spectrometry. Electrophoresis, 2008, 29, 1317-1324	² 1.3	41
26	A Preliminary Proteomic Investigation of Circulating Exosomes and Discovery of Biomarkers Associated with the Progression of Osteosarcoma in a Clinical Model of Spontaneous Disease. Translational Oncology, 2018, 11, 1137-1146.	1.7	41
27	Antiproliferative and Cytotoxic Activity of Xanthohumol and Its Non-Estrogenic Derivatives in Colon and Hepatocellular Carcinoma Cell Lines. International Journal of Molecular Sciences, 2019, 20, 1203.	1.8	41
28	Hydrogen/Deuterium Exchange Mass Spectrometry. Methods in Molecular Biology, 2009, 492, 255-271.	0.4	39
29	Bioactive peptides from brown rice protein hydrolyzed by bromelain: Relationship between biofunctional activities and flavor characteristics. Journal of Food Science, 2020, 85, 707-717.	1.5	39
30	Structural and functional analysis of the finished genome of the recently isolated toxic Anabaena sp. WA102. BMC Genomics, 2016, 17, 457.	1.2	38
31	Protein modifications by electrophilic lipoxidation products: Adduct formation, chemical strategies and tandem mass spectrometry for their detection and identification. Mass Spectrometry Reviews, 2014, 33, 157-182.	2.8	36
32	Hop proanthocyanidins induce apoptosis, protein carbonylation, and cytoskeleton disorganization in human colorectal adenocarcinoma cells via reactive oxygen species. Food and Chemical Toxicology, 2009, 47, 827-836.	1.8	35
33	Caffeoylquinic Acids in Centella asiatica Reverse Cognitive Deficits in Male 5XFAD Alzheimer's Disease Model Mice. Nutrients, 2020, 12, 3488.	1.7	34
34	Improvements in Metabolic Syndrome by Xanthohumol Derivatives Are Linked to Altered Gut Microbiota and Bile Acid Metabolism. Molecular Nutrition and Food Research, 2020, 64, e1900789.	1.5	32
35	Conformational changes in chemically modifiedEscherichia colithioredoxin monitored by H/D exchange and electrospray ionization mass spectrometry. Protein Science, 2002, 11, 1320-1329.	3.1	29
36	Integration of mass spectral fingerprinting analysis with precursor ion (MS1) quantification for the characterisation of botanical extracts: application to extracts of <scp><i>Centella asiatica</i></scp> (L.) Urban. Phytochemical Analysis, 2020, 31, 722-738.	1.2	28

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37	Isolation and characterisation of antioxidative peptides from bromelain-hydrolysed brown rice protein by proteomic technique. Process Biochemistry, 2018, 70, 179-187.	1.8	27
38	A comparative â€~bottom up' proteomics strategy for the site-specific identification and quantification of protein modifications by electrophilic lipids. Journal of Proteomics, 2012, 75, 5724-5733.	1.2	26
39	Untargeted Metabolomic Screen Reveals Changes in Human Plasma Metabolite Profiles Following Consumption of Fresh Broccoli Sprouts. Molecular Nutrition and Food Research, 2018, 62, e1700665.	1.5	26
40	A targeted mass spectrometry-based approach for the identification and characterization of proteins containing α-aminoadipic and γ-glutamic semialdehyde residues. Analytical and Bioanalytical Chemistry, 2010, 398, 2905-2914.	1.9	22
41	Conformational dynamics of human FXR-LBD ligand interactions studied by hydrogen/deuterium exchange mass spectrometry: Insights into the antagonism of the hypolipidemic agent Z-guggulsterone. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1684-1693.	1.1	22
42	Mass Tagging Approach for Mitochondrial Thiol Proteins. Journal of Proteome Research, 2005, 4, 1403-1412.	1.8	21
43	Label-Free Proteomics Assisted by Affinity Enrichment for Elucidating the Chemical Reactivity of the Liver Mitochondrial Proteome toward Adduction by the Lipid Electrophile 4-hydroxy-2-nonenal (HNE). Frontiers in Chemistry, 2016, 4, 2.	1.8	21
44	Electrospray Quadrupole Travelling Wave Ion Mobility Time-of-Flight Mass Spectrometry for the Detection of Plasma Metabolome Changes Caused by Xanthohumol in Obese Zucker (fa/fa) Rats. Metabolites, 2013, 3, 701-717.	1.3	20
45	Xanthohumol ameliorates Diet-Induced Liver Dysfunction via Farnesoid X Receptor-Dependent and Independent Signaling. Frontiers in Pharmacology, 2021, 12, 643857.	1.6	20
46	Intramolecular Interactions in Chemically ModifiedEscherichia coliThioredoxin Monitored by Hydrogen/Deuterium Exchange and Electrospray Ionization Mass Spectrometryâ€. Biochemistry, 2001, 40, 14413-14421.	1.2	19
47	Protein Adducts of Aldehydic Lipid Peroxidation Products. Methods in Enzymology, 2010, 473, 305-330.	0.4	19
48	Vitamin C Activates the Folate-Mediated One-Carbon Cycle in C2C12 Myoblasts. Antioxidants, 2020, 9, 217.	2.2	19
49	Conformational Properties of the A-State of Cytochrome c Studied by Hydrogen/Deuterium Exchange and Electrospray Mass Spectrometry. Analytical Biochemistry, 1997, 252, 127-135.	1.1	18
50	Mass spectrometryâ€based quantification of myocardial protein adducts with acrolein in an in vivo model of oxidative stress. Molecular Nutrition and Food Research, 2011, 55, 1401-1410.	1.5	18
51	Conformational modulation of the farnesoid X receptor by prenylflavonoids: Insights from hydrogen deuterium exchange mass spectrometry (HDX-MS), fluorescence titration and molecular docking studies. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1667-1677.	1.1	18
52	Anodic stripping voltammetry on a carbon-based ion-selective electrode. Electrochimica Acta, 2021, 390, 138855.	2.6	18
53	The omics approach to bee nutritional landscape. Metabolomics, 2019, 15, 127.	1.4	17
54	Targeting the Liverâ€Brain Axis with Hopâ€Derived Flavonoids Improves Lipid Metabolism and Cognitive Performance in Mice. Molecular Nutrition and Food Research, 2020, 64, e2000341.	1.5	17

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55	Germ-Free Swiss Webster Mice on a High-Fat Diet Develop Obesity, Hyperglycemia, and Dyslipidemia. Microorganisms, 2020, 8, 520.	1.6	17
56	Nonmuscle myosins II-B and Va are components of detergent-resistant membrane skeletons derived from mouse forebrain. Brain Research, 2007, 1143, 46-59.	1.1	16
57	Analysis of autophagic flux in response to sulforaphane in metastatic prostate cancer cells. Molecular Nutrition and Food Research, 2015, 59, 1954-1961.	1.5	16
58	Delineation of hypoxia-induced proteome shifts in osteosarcoma cells with different metastatic propensities. Scientific Reports, 2020, 10, 727.	1.6	16
59	Electrospray ionization Fourier transform ion cyclotron resonance mass spectrometric analysis of the recombinant human macrophage colony stimulating factor β and derivatives. Journal of the American Society for Mass Spectrometry, 2000, 11, 237-243.	1.2	15
60	Plant growth and metabolic changes in â€~Super Hot' chili fruit (Capsicum annuum) exposed to supplemental LED lights. Plant Science, 2021, 305, 110826.	1.7	14
61	Structural comparison of recombinant human macrophage colony stimulating factor Î ² and a partially reduced derivative using hydrogen deuterium exchange and electrospray ionization mass spectrometry. Protein Science, 2008, 10, 2336-2345.	3.1	13
62	A multiplex biomarker approach for the diagnosis of transitional cell carcinoma from canine urine. Analytical Biochemistry, 2014, 455, 41-47.	1.1	13
63	Xanthohumol Requires the Intestinal Microbiota to Improve Glucose Metabolism in Dietâ€Induced Obese Mice. Molecular Nutrition and Food Research, 2021, 65, e2100389.	1.5	13
64	Centella asiatica Alters Metabolic Pathways Associated With Alzheimer's Disease in the 5xFAD Mouse Model of ß-Amyloid Accumulation. Frontiers in Pharmacology, 2021, 12, 788312.	1.6	12
65	The Impact of the hAPP695SW Transgene and Associated Amyloid-β Accumulation on Murine Hippocampal Biochemical Pathways. Journal of Alzheimer's Disease, 2022, 85, 1601-1619.	1.2	12
66	Pharmacokinetics and Pharmacodynamics of Key Components of a Standardized Centella asiatica Product in Cognitively Impaired Older Adults: A Phase 1, Double-Blind, Randomized Clinical Trial. Antioxidants, 2022, 11, 215.	2.2	10
67	Tetrahydroxanthohumol, a xanthohumol derivative, attenuates high-fat diet-induced hepatic steatosis by antagonizing PPARÎ ³ . ELife, 2021, 10, .	2.8	9
68	Mechanism of Lipid Binding of Human Apolipoprotein E3 by Hydrogen/Deuterium Exchange/Mass Spectrometry and Fluorescence Polarization. Protein and Peptide Letters, 2016, 23, 404-413.	0.4	9
69	Phytochemical characterization of Tabernanthe iboga root bark and its effects on dysfunctional metabolism and cognitive performance in high-fat-fed C57BL/6J mice. Journal of Food Bioactives: an Official Scientific Publication of the International Society of Nutraceuticals and Functional Foods (ISNEF) 2018 3 111-123	2.4	9
70	Conformational studies of the robust 2-Cys peroxiredoxin Salmonella typhimurium AhpC by solution phase hydrogen/deuterium (H/D) exchange monitored by electrospray ionization mass spectrometry. International Journal of Mass Spectrometry, 2011, 302, 93-100.	0.7	8
71	Tandem Mass Spectrometric Characterization of Thiol Peptides Modified by the Chemoselective Cationic Sulfhydryl Reagent (4-lodobutyl)Triphenylphosphonium—. Journal of the American Society for Mass Spectrometry, 2011, 22, 1771-1783.	1.2	8
72	HDAC6 activity is not required for basal autophagic flux in metastatic prostate cancer cells. Experimental Biology and Medicine, 2016, 241, 1177-1185.	1.1	8

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73	Total synthesis of [¹³ C] ₂ â€; [¹³ C] ₃ â€; and [¹³ C] ₅ â€isotopomers of xanthohumol, the principal prenylflavonoid from hops. Journal of Labelled Compounds and Radiopharmaceuticals, 2017, 60, 639-648.	0.5	8
74	Proteome-Driven Elucidation of Adaptive Responses to Combined Vitamin E and C Deficiency in Zebrafish. Journal of Proteome Research, 2014, 13, 1647-1656.	1.8	7
75	The Ahr2-Dependent <i>wfikkn1</i> Gene Influences Zebrafish Transcriptome, Proteome, and Behavior. Toxicological Sciences, 2022, 187, 325-344.	1.4	7
76	Metabolic changes and improved growth in micropropagated red raspberry "Indian summer―are tied to improved mineral nutrition. In Vitro Cellular and Developmental Biology - Plant, 2017, 53, 579-590.	0.9	6
77	Ordered opening of LDL receptor binding domain of human apolipoprotein E3 revealed by hydrogen/deuterium exchange mass spectrometry and fluorescence spectroscopy. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 1165-1173.	1.1	6
78	Effects of low and high dose intraarticular tiludronate on synovial fluid and clinical variables in healthy horses—a preliminary investigation. PeerJ, 2014, 2, e534.	0.9	6
79	Ion mobility-enhanced MSE-based label-free analysis reveals effects of low-dose radiation post contextual fear conditioning training on the mouse hippocampal proteome. Journal of Proteomics, 2016, 140, 24-36.	1.2	5
80	Plasma Lipidomic Patterns in Patients with Symptomatic Coronary Microvascular Dysfunction. Metabolites, 2021, 11, 648.	1.3	5
81	Withania somnifera and Centella asiatica Extracts Ameliorate Behavioral Deficits in an In Vivo Drosophila melanogaster Model of Oxidative Stress. Antioxidants, 2022, 11, 121.	2.2	5
82	A mass spectrometric study of the heterogeneity of the monomer subunit of Lumbricus terrestris hemoglobin. Journal of the American Society for Mass Spectrometry, 1997, 8, 352-364.	1.2	4
83	<i>Centella asiatica</i> Water Extract Shows Low Potential for Cytochrome P450–Mediated Drug Interactions. Drug Metabolism and Disposition, 2020, 48, 1053-1063.	1.7	4
84	Xanthohumol Pyrazole Derivative Improves Diet-Induced Obesity and Induces Energy Expenditure in High-Fat Diet-Fed Mice. ACS Pharmacology and Translational Science, 2021, 4, 1782-1793.	2.5	4
85	Assessment of global proteome in LNCaP cells by 2D-RP/RP LC–MS/MS following sulforaphane exposure. EuPA Open Proteomics, 2015, 9, 34-40.	2.5	2
86	Visualisation tools for dependent peptide searches to support the exploration of in vitro protein modifications. PLoS ONE, 2020, 15, e0235263.	1.1	2
87	Electrospray Ionization Traveling Wave Ion Mobility Spectrometry Mass Spectrometry for the Analysis of Plant Phenolics: An Approach for Separation of Regioisomers. , 2013, , 21-41.		2
88	Developing a Rational, Optimized Product of Centella asiatica for Examination in Clinical Trials: Real World Challenges. Frontiers in Nutrition, 2021, 8, 799137.	1.6	2
89	Biomolecular mass spectrometry related to drug research. Pharmacochemistry Library, 2002, , 81-94.	0.1	1
90	Comparative liquid chromatography/tandem mass spectrometry lipidomics analysis of macaque heart tissue flashâ€frozen or embedded in optimal cutting temperature polymer (OCT): Practical considerations. Rapid Communications in Mass Spectrometry, 2021, 35, e9155.	0.7	0

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91	Integrated Identification and Quantification of Cyanobacterial Toxins from Pacific Northwest Freshwaters by Liquid Chromatography and High-resolution Mass Spectrometry. Journal of the Mexican Chemical Society, 2018, 62, .	0.2	0
92	Gas Chromatography Coupled to Atmospheric Pressure Chemical Ionization High-Resolution Mass Spectrometry for Metabolite Fingerprinting of Grape (Vitis vinifera L) Berry. Methods in Molecular Biology, 2022, 2396, 85-99.	0.4	0
93	Title is missing!. , 2020, 15, e0235263.		0
94	Title is missing!. , 2020, 15, e0235263.		0
95	Title is missing!. , 2020, 15, e0235263.		0
96	Title is missing!. , 2020, 15, e0235263.		0