

Claudia S Birkemeyer

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,512
citations

257450

24
h-index

138484

58
g-index

71
all docs

71
docs citations

71
times ranked

5667
citing authors

#	ARTICLE	IF	CITATIONS
1	GMD@CSB.DB: the Golm Metabolome Database. <i>Bioinformatics</i> , 2005, 21, 1635-1638.	4.1	1,247
2	DOF transcription factor AtDof1.1 (OBP2) is part of a regulatory network controlling glucosinolate biosynthesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2006, 47, 10-24.	5.7	243
3	Comprehensive chemical derivatization for gas chromatography–mass spectrometry-based multi-targeted profiling of the major phytohormones. <i>Journal of Chromatography A</i> , 2003, 993, 89-102.	3.7	150
4	Metabolome analysis: the potential of in vivo labeling with stable isotopes for metabolite profiling. <i>Trends in Biotechnology</i> , 2005, 23, 28-33.	9.3	149
5	Curcumin Inhibits Glyoxalase 1—A Possible Link to Its Anti-Inflammatory and Anti-Tumor Activity. <i>PLoS ONE</i> , 2008, 3, e3508.	2.5	143
6	Identification of Volatile Compounds Used in Host Location by the Black Bean Aphid, <i>Aphis fabae</i> . <i>Journal of Chemical Ecology</i> , 2008, 34, 1153-1161.	1.8	141
7	Current Challenges in Plant Eco-Metabolomics. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1385.	4.1	106
8	Elucidation of the biosynthesis of the methane catalyst coenzyme F430. <i>Nature</i> , 2017, 543, 78-82.	27.8	104
9	Posttranslational Modification of Human Glyoxalase 1 Indicates Redox-Dependent Regulation. <i>PLoS ONE</i> , 2010, 5, e10399.	2.5	79
10	Hydrolysis of cyclic poly(ethylene terephthalate) trimers by a carboxylesterase from <i>Thermobifida fusca</i> KW3. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1753-1764.	3.6	77
11	The Brønsted Acid Catalyzed, Enantioselective Vinylogous Mannich Reaction. <i>Chemistry - A European Journal</i> , 2010, 16, 2806-2818.	3.3	77
12	Electrospray Ionization Efficiency Is Dependent on Different Molecular Descriptors with Respect to Solvent pH and Instrumental Configuration. <i>PLoS ONE</i> , 2016, 11, e0167502.	2.5	64
13	A nitrilase from a metagenomic library acts regioselectively on aliphatic dinitriles. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 91-98.	3.6	56
14	Comparison of extraction conditions and normalization approaches for cellular metabolomics of adherent growing cells with GC-MS. <i>Analytical Methods</i> , 2012, 4, 1953.	2.7	56
15	Osmotic stress is accompanied by protein glycation in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 6283-6295.	4.8	47
16	Unraveling the gut microbiome of the long-lived naked mole-rat. <i>Scientific Reports</i> , 2017, 7, 9590.	3.3	46
17	Ethyl pyruvate and ethyl lactate down-regulate the production of pro-inflammatory cytokines and modulate expression of immune receptors. <i>Biochemical Pharmacology</i> , 2008, 76, 631-644.	4.4	45
18	Global proteomic analysis of advanced glycation end products in the <i>Arabidopsis</i> proteome provides evidence for age-related glycation hot spots. <i>Journal of Biological Chemistry</i> , 2017, 292, 15758-15776.	3.4	44

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19	A Snapshot of the Plant Glycated Proteome. <i>Journal of Biological Chemistry</i> , 2016, 291, 7621-7636.	3.4	43
20	GC-MS Method for the Quantitation of Carbohydrate Intermediates in Glycation Systems. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5911-5919.	5.2	42
21	Early responses of mature <i>Arabidopsis thaliana</i> plants to reduced water potential in the agar-based polyethylene glycol infusion drought model. <i>Journal of Plant Physiology</i> , 2017, 208, 70-83.	3.5	42
22	Comparison of the positive and negative ion electrospray ionization and matrix-assisted laser desorption ionization-time-of-flight mass spectra of the reaction products of phosphatidylethanolamines and hypochlorous acid. <i>Analytical Biochemistry</i> , 2008, 376, 157-159.	2.4	28
23	Structure-response relationship in electrospray ionization-mass spectrometry of sartans by artificial neural networks. <i>Journal of Chromatography A</i> , 2016, 1438, 123-132.	3.7	26
24	Different methods for volatile sampling in mammals. <i>PLoS ONE</i> , 2017, 12, e0183440.	2.5	26
25	Formation of cyanogen iodide by lactoperoxidase. <i>Journal of Inorganic Biochemistry</i> , 2016, 154, 35-41.	3.5	24
26	Glycerophosphoglycerol, Beta-Alanine, and Pantothenic Acid as Metabolic Companions of Glycolytic Activity and Cell Migration in Breast Cancer Cell Lines. <i>Metabolites</i> , 2013, 3, 1084-1101.	2.9	23
27	Sampling the Body Odor of Primates: Cotton Swabs Sample Semivolatiles Rather Than Volatiles. <i>Chemical Senses</i> , 2016, 41, 525-535.	2.0	21
28	Metabolic response of glioblastoma cells associated with glucose withdrawal and pyruvate substitution as revealed by GC-MS. <i>Nutrition and Metabolism</i> , 2016, 13, 70.	3.0	20
29	A non-invasive method for sampling the body odour of mammals. <i>Methods in Ecology and Evolution</i> , 2018, 9, 420-429.	5.2	20
30	The proton-coupled oligopeptide transporters PEPT2, PHT1 and PHT2 mediate the uptake of carnosine in glioblastoma cells. <i>Amino Acids</i> , 2019, 51, 999-1008.	2.7	20
31	Phytochemical Characterization and In Vitro Anti-Inflammatory, Antioxidant and Antimicrobial Activity of <i>Combretum Collinum</i> Fresen Leaves Extracts from Benin. <i>Molecules</i> , 2020, 25, 288.	3.8	18
32	The Radical SAM enzyme NirJ catalyzes the removal of two propionate side chains during heme biosynthesis. <i>FEBS Journal</i> , 2017, 284, 4314-4327.	4.7	17
33	Comparison of two common adsorption materials for thermal desorption gas chromatography-mass spectrometry of biogenic volatile organic compounds. <i>Journal of Chromatography A</i> , 2017, 1514, 16-28.	3.7	17
34	Chemical cues of female fertility states in a non-human primate. <i>Scientific Reports</i> , 2019, 9, 13716.	3.3	17
35	Chemical Composition and Potential Practical Application of 15 Red Algal Species from the White Sea Coast (the Arctic Ocean). <i>Molecules</i> , 2021, 26, 2489.	3.8	17
36	Early Embryogenesis of Brown Alga <i>Fucus vesiculosus</i> L. is Characterized by Significant Changes in Carbon and Energy Metabolism. <i>Molecules</i> , 2017, 22, 1509.	3.8	16

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37	Erythrocytes Prevent Degradation of Carnosine by Human Serum Carnosinase. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12802.	4.1	14
38	Chemical composition of axillary odorants reflects social and individual attributes in rhesus macaques. <i>Behavioral Ecology and Sociobiology</i> , 2018, 72, 65.	1.4	12
39	Nanoparticle-based formulation of metallacarboranes with bovine serum albumin for application in cell cultures. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	12
40	Composition of Intracellular and Cell Wall-Bound Phlorotannin Fractions in Furoid Algae Indicates Specific Functions of These Metabolites Dependent on the Chemical Structure. <i>Metabolites</i> , 2020, 10, 369.	2.9	12
41	Vanadium-dependent haloperoxidase activity and phlorotannin incorporation into the cell wall during early embryogenesis of <i>Fucus vesiculosus</i> (Phaeophyceae). <i>European Journal of Phycology</i> , 2020, 55, 275-284.	2.0	12
42	Carnosine's inhibitory effect on glioblastoma cell growth is independent of its cleavage. <i>Amino Acids</i> , 2019, 51, 761-772.	2.7	11
43	Distribution of natural ingredients suggests a complex network of metabolic transport between source and sink tissues in the brown alga <i>Fucus vesiculosus</i> . <i>Planta</i> , 2019, 249, 377-391.	3.2	11
44	The requirements for low-temperature plasma ionization support miniaturization of the ion source. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3715-3722.	3.7	10
45	Derivatization of Methylglyoxal for LC-ESI-MS Analysis—Stability and Relative Sensitivity of Different Derivatives. <i>Molecules</i> , 2018, 23, 2994.	3.8	10
46	Artifacts in Amine Analysis from Anodic Oxidation of Organic Solvents upon Electrospray Ionization for Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2012, 18, 301-312.	1.0	9
47	Comparative chemical analysis of body odor in great apes. <i>American Journal of Primatology</i> , 2019, 81, e22976.	1.7	9
48	Response in Ambient Low Temperature Plasma Ionization Compared to Electrospray and Atmospheric Pressure Chemical Ionization for Mass Spectrometry. <i>International Journal of Analytical Chemistry</i> , 2018, 2018, 1-18.	1.0	7
49	Non-enzymatic reaction of carnosine and glyceraldehyde-3-phosphate accompanies metabolic changes of the pentose phosphate pathway. <i>Cell Proliferation</i> , 2020, 53, e12702.	5.3	7
50	Selective removal of phosphate for analysis of organic acids in complex samples. <i>Journal of Chromatography A</i> , 2015, 1388, 1-8.	3.7	6
51	Challenges of fast sampling of volatiles for thermal desorption gas chromatography - mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1617, 460822.	3.7	6
52	Proton-transfer reaction time-of-flight mass spectrometry (PTR-TOF-MS) as a tool for studying animal volatile organic compound (VOC) emissions. <i>Methods in Ecology and Evolution</i> , 2021, 12, 748-766.	5.2	6
53	Analyte and matrix evaporability – key players of low-temperature plasma ionization for ambient mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5123-5130.	3.7	4
54	Surface acoustic wave nebulization improves compound selectivity of low-temperature plasma ionization for mass spectrometry. <i>Scientific Reports</i> , 2021, 11, 2948.	3.3	4

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55	Bio-activation of simeprevir in liver microsomes and characterization of its glutathione conjugates by liquid chromatography coupled to ultrahigh-resolution quadrupole time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1645, 462095.	3.7	4
56	Design of Metabolite Recovery by Variations of the Metabolite Profiling Protocol. , 2007, , 45-69.		4
57	Phytochemical Analysis, In Vitro Anti-Inflammatory and Antimicrobial Activity of <i>Piliostigma thonningii</i> Leaf Extracts from Benin. <i>Planta Medica</i> , 2020, 86, 1269-1277.	1.3	3
58	High-Throughput Fingerprinting of Rhizobial Free Fatty Acids by Chemical Thin-Film Deposition and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Methods and Protocols</i> , 2020, 3, 36.	2.0	3
59	Probing glycation potential of dietary sugars in human blood by an integrated in vitro approach. <i>Food Chemistry</i> , 2021, 347, 128951.	8.2	3
60	Viability of Glioblastoma Cells and Fibroblasts in the Presence of Imidazole-Containing Compounds. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5834.	4.1	3
61	Glycation of Plant Proteins under Environmental Stress – Methodological Approaches, Potential Mechanisms and Biological Role. , 2016, , .		2
62	Isolation and identification of antispirochetal labdane-type manoyloxides from <i>Cistus creticus</i> L. by novel TLC-extractor/MS and GC/MS. <i>Planta Medica</i> , 2010, 76, .	1.3	2
63	Labdanum from mediterranean <i>Cistus</i> species: GC-MS fingerprints and relative quantification of antispirochaetal manoyloxides. <i>Planta Medica</i> , 2012, 78, .	1.3	2
64	Towards an understanding of multimodal traits of female reproduction in chimpanzees. <i>Primates</i> , 2022, 63, 365-376.	1.1	1
65	Growth inhibiting activity of volatile terpenoids from <i>Cistus creticus</i> L. against <i>Borrelia burgdorferi</i> sensu stricto (Bss) in vitro. <i>Planta Medica</i> , 2008, 74, .	1.3	0