

# Benedikt Warth

## List of Publications by Citations

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**Version:** 2024-04-19

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113  
papers

4,430<sup>0</sup>  
citations

37  
h-index

63  
g-index

126  
ext. papers

5,592  
ext. citations

7.2  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
113	METLIN: A Technology Platform for Identifying Knowns and Unknowns. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3156-3164	7.8	461
112	Quantitation of mycotoxins in food and feed from Burkina Faso and Mozambique using a modern LC-MS/MS multitoxin method. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 9352-63	5.7	172
111	Metabolomics activity screening for identifying metabolites that modulate phenotype. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 316-320	44.5	160
110	Determination of multi-mycotoxin occurrence in cereals, nuts and their products in Cameroon by liquid chromatography tandem mass spectrometry (LC-MS/MS). <i>Food Control</i> , <b>2013</b> , 31, 438-453	6.2	151
109	Data processing, multi-omic pathway mapping, and metabolite activity analysis using XCMS Online. <i>Nature Protocols</i> , <b>2018</b> , 13, 633-651	18.8	141
108	New insights into the human metabolism of the Fusarium mycotoxins deoxynivalenol and zearalenone. <i>Toxicology Letters</i> , <b>2013</b> , 220, 88-94	4.4	141
107	Assessment of human deoxynivalenol exposure using an LC-MS/MS based biomarker method. <i>Toxicology Letters</i> , <b>2012</b> , 211, 85-90	4.4	131
106	Mycotoxin exposure in rural residents in northern Nigeria: a pilot study using multi-urinary biomarkers. <i>Environment International</i> , <b>2014</b> , 66, 138-45	12.9	114
105	Development and validation of a rapid multi-biomarker liquid chromatography/tandem mass spectrometry method to assess human exposure to mycotoxins. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 1533-40	2.2	112
104	Multiple mycotoxin exposure determined by urinary biomarkers in rural subsistence farmers in the former Transkei, South Africa. <i>Food and Chemical Toxicology</i> , <b>2013</b> , 62, 217-25	4.7	110
103	Bio-monitoring of mycotoxin exposure in Cameroon using a urinary multi-biomarker approach. <i>Food and Chemical Toxicology</i> , <b>2013</b> , 62, 927-34	4.7	90
102	LC-MS/MS-based multibiomarker approaches for the assessment of human exposure to mycotoxins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 5687-95	4.4	81
101	Exposome-Scale Investigations Guided by Global Metabolomics, Pathway Analysis, and Cognitive Computing. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11505-11513	7.8	78
100	Synergistic estrogenic effects of Fusarium and Alternaria mycotoxins in vitro. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 1447-1460	5.8	77
99	Fungal and bacterial metabolites of stored maize ( <i>Zea mays</i> , L.) from five agro-ecological zones of Nigeria. <i>Mycotoxin Research</i> , <b>2014</b> , 30, 89-102	4	75
98	Ultra-sensitive, stable isotope assisted quantification of multiple urinary mycotoxin exposure biomarkers. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1019, 84-92	6.6	74
97	Tracking emerging mycotoxins in food: development of an LC-MS/MS method for free and modified Alternaria toxins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 4481-4494	4.4	67

96	GC-MS based targeted metabolic profiling identifies changes in the wheat metabolome following deoxynivalenol treatment. <i>Metabolomics</i> , <b>2015</b> , 11, 722-738	4.7	66
95	Natural occurrence of mycotoxins in peanut cake from Nigeria. <i>Food Control</i> , <b>2012</b> , 27, 338-342	6.2	65
94	Investigation of the hepatic glucuronidation pattern of the Fusarium mycotoxin deoxynivalenol in various species. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 2715-7	4	64
93	Incidence and consumer awareness of toxigenic <i>Aspergillus</i> section <i>Flavi</i> and aflatoxin B1 in peanut cake from Nigeria. <i>Food Control</i> , <b>2013</b> , 30, 596-601	6.2	60
92	Urinary analysis reveals high deoxynivalenol exposure in pregnant women from Croatia. <i>Food and Chemical Toxicology</i> , <b>2013</b> , 62, 231-7	4.7	60
91	Biomonitoring of Mycotoxins in Human Breast Milk: Current State and Future Perspectives. <i>Chemical Research in Toxicology</i> , <b>2016</b> , 29, 1087-97	4	59
90	Mycotoxin risk assessment for consumers of groundnut in domestic markets in Nigeria. <i>International Journal of Food Microbiology</i> , <b>2017</b> , 251, 24-32	5.8	57
89	Rational design of a microbial consortium of mucosal sugar utilizers reduces <i>Clostridiodes difficile</i> colonization. <i>Nature Communications</i> , <b>2020</b> , 11, 5104	17.4	57
88	Deoxynivalenol-sulfates: identification and quantification of novel conjugated (masked) mycotoxins in wheat. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 1033-9	4.4	56
87	Direct quantification of deoxynivalenol glucuronide in human urine as biomarker of exposure to the Fusarium mycotoxin deoxynivalenol. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 195-200	4.4	56
86	Non-synergistic cytotoxic effects of Fusarium and Alternaria toxin combinations in Caco-2 cells. <i>Toxicology Letters</i> , <b>2016</b> , 241, 1-8	4.4	50
85	Utilising an LC-MS/MS-based multi-biomarker approach to assess mycotoxin exposure in the Bangkok metropolitan area and surrounding provinces. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2014</b> , 31, 2040-6	3.2	46
84	Monitoring Early Life Mycotoxin Exposures via LC-MS/MS Breast Milk Analysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 14569-14577	7.8	45
83	Fate of mycotoxins in two popular traditional cereal-based beverages (kunu-zaki and pito) from rural Nigeria. <i>LWT - Food Science and Technology</i> , <b>2015</b> , 60, 137-141	5.4	44
82	Mycological analysis and multimycotoxins in maize from rural subsistence farmers in the former Transkei, South Africa. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 8232-40	5.7	43
81	METLIN MS molecular standards database: a broad chemical and biological resource. <i>Nature Methods</i> , <b>2020</b> , 17, 953-954	21.6	43
80	In vitro glucuronidation kinetics of deoxynivalenol by human and animal microsomes and recombinant human UGT enzymes. <i>Archives of Toxicology</i> , <b>2015</b> , 89, 949-60	5.8	42
79	An integrated in silico/in vitro approach to assess the xenoestrogenic potential of Alternaria mycotoxins and metabolites. <i>Food Chemistry</i> , <b>2018</b> , 248, 253-261	8.5	41

78	Combinatory estrogenic effects between the isoflavone genistein and the mycotoxins zearalenone and alternariol in vitro. <i>Molecular Nutrition and Food Research</i> , <b>2017</b> , 61, 1600526	5.9	38
77	From malt to wheat beer: A comprehensive multi-toxin screening, transfer assessment and its influence on basic fermentation parameters. <i>Food Chemistry</i> , <b>2018</b> , 254, 115-121	8.5	37
76	Identification of a novel human deoxynivalenol metabolite enhancing proliferation of intestinal and urinary bladder cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 33854	4.9	36
75	Metabolomics Reveals that Dietary Xenoestrogens Alter Cellular Metabolism Induced by Palbociclib/Letrozole Combination Cancer Therapy. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 291-300.e3	8.2	35
74	Fungal and bacterial metabolites in commercial poultry feed from Nigeria. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2012</b> , 29, 1288-99	3.2	35
73	A fiber-deprived diet disturbs the fine-scale spatial architecture of the murine colon microbiome. <i>Nature Communications</i> , <b>2019</b> , 10, 4366	17.4	34
72	Synthesis of deoxynivalenol-3-ED-O-glucuronide for its use as biomarker for dietary deoxynivalenol exposure. <i>World Mycotoxin Journal</i> , <b>2012</b> , 5, 127-132	2.5	34
71	A Generic Liquid Chromatography-Tandem Mass Spectrometry Exposome Method for the Determination of Xenoestrogens in Biological Matrices. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11334-11342	7.8	32
70	Mycotoxin patterns in ear rot infected maize: A comprehensive case study in Nigeria. <i>Food Control</i> , <b>2017</b> , 73, 1159-1168	6.2	32
69	Fungal and mycotoxin assessment of dried edible mushroom in Nigeria. <i>International Journal of Food Microbiology</i> , <b>2013</b> , 162, 231-6	5.8	31
68	Uncommon toxic microbial metabolite patterns in traditionally home-processed maize dish (fufu) consumed in rural Cameroon. <i>Food and Chemical Toxicology</i> , <b>2017</b> , 107, 10-19	4.7	30
67	Quantitation of free and modified <i>Alternaria</i> mycotoxins in European food products by LC-MS/MS. <i>Food Control</i> , <b>2019</b> , 102, 157-165	6.2	30
66	Delphinidin protects colon carcinoma cells against the genotoxic effects of the mycotoxin altertoxin II. <i>Toxicology Letters</i> , <b>2018</b> , 284, 136-142	4.4	30
65	Transfer and Metabolism of the Xenoestrogen Zearalenone in Human Perfused Placenta. <i>Environmental Health Perspectives</i> , <b>2019</b> , 127, 107004	8.4	28
64	Multi-microbial metabolites in fonio millet (acha) and sesame seeds in Plateau State, Nigeria. <i>European Food Research and Technology</i> , <b>2012</b> , 235, 285-293	3.4	28
63	First insights into <i>Alternaria</i> multi-toxin in vivo metabolism. <i>Toxicology Letters</i> , <b>2019</b> , 301, 168-178	4.4	28
62	Evaluation of software sensors for on-line estimation of culture conditions in an <i>Escherichia coli</i> cultivation expressing a recombinant protein. <i>Journal of Biotechnology</i> , <b>2010</b> , 147, 37-45	3.7	27
61	Traditional processing impacts mycotoxin levels and nutritional value of ogi [A maize-based complementary food. <i>Food Control</i> , <b>2018</b> , 86, 224-233	6.2	27

60	Fast and reproducible chemical synthesis of zearalenone-14- $\beta$ -D-glucuronide. <i>World Mycotoxin Journal</i> , <b>2012</b> , 5, 289-296	2.5	26
59	The Metabolic Fate of Deoxynivalenol and Its Acetylated Derivatives in a Wheat Suspension Culture: Identification and Detection of DON-15-O-Glucoside, 15-Acetyl-DON-3-O-Glucoside and 15-Acetyl-DON-3-Sulfate. <i>Toxins</i> , <b>2015</b> , 7, 3112-26	4.9	25
58	Joint Transcriptomic and Metabolomic Analyses Reveal Changes in the Primary Metabolism and Imbalances in the Subgenome Orchestration in the Bread Wheat Molecular Response to <i>Fusarium graminearum</i> . <i>G3: Genes, Genomes, Genetics</i> , <b>2015</b> , 5, 2579-92	3.2	25
57	Mycotoxins in uncooked and plate-ready household food from rural northern Nigeria. <i>Food and Chemical Toxicology</i> , <b>2019</b> , 128, 171-179	4.7	24
56	Fluorinated Gold Nanoparticles for Nanostructure Imaging Mass Spectrometry. <i>ACS Nano</i> , <b>2018</b> , 12, 6938-6948	6.9	22
55	Naturally occurring mixtures of <i>Alternaria</i> toxins: anti-estrogenic and genotoxic effects in vitro. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 3021-3031	5.8	21
54	Data Streaming for Metabolomics: Accelerating Data Processing and Analysis from Days to Minutes. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1254-1259	7.8	20
53	Response of intestinal HT-29 cells to the trichothecene mycotoxin deoxynivalenol and its sulfated conjugates. <i>Toxicology Letters</i> , <b>2018</b> , 295, 424-437	4.4	20
52	Bacterial species and mycotoxin contamination associated with locust bean, melon and their fermented products in south-western Nigeria. <i>International Journal of Food Microbiology</i> , <b>2017</b> , 258, 73-80	5.8	20
51	Comparison of single and multi-analyte methods based on LC-MS/MS for mycotoxin biomarker determination in human urine. <i>World Mycotoxin Journal</i> , <b>2013</b> , 6, 355-366	2.5	20
50	Comparison of <i>Fusarium graminearum</i> Transcriptomes on Living or Dead Wheat Differentiates Substrate-Responsive and Defense-Responsive Genes. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1113	5.7	20
49	Metabolizing Data in the Cloud. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 481-483	15.1	19
48	The <i>Fusarium</i> metabolite culmorin suppresses the in vitro glucuronidation of deoxynivalenol. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 1729-1743	5.8	19
47	The secondary <i>Fusarium</i> metabolite aurofusarin induces oxidative stress, cytotoxicity and genotoxicity in human colon cells. <i>Toxicology Letters</i> , <b>2018</b> , 284, 170-183	4.4	19
46	Exposure to Mycotoxin-Mixtures via Breast Milk: An Ultra-Sensitive LC-MS/MS Biomonitoring Approach. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 423	5	18
45	Impact of phase I metabolism on uptake, oxidative stress and genotoxicity of the emerging mycotoxin alternariol and its monomethyl ether in esophageal cells. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 1213-1226	5.8	17
44	Aberrant gut-microbiota-immune-brain axis development in premature neonates with brain damage. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 1558-1572.e6	23.4	17
43	A mini-survey of moulds and mycotoxins in locally grown and imported wheat grains in Nigeria. <i>Mycotoxin Research</i> , <b>2017</b> , 33, 59-64	4	16

42	Autonomous Multimodal Metabolomics Data Integration for Comprehensive Pathway Analysis and Systems Biology. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8396-8403	7.8	16
41	Bioavailability, metabolism, and excretion of a complex <i>Alternaria</i> culture extract versus altertoxin II: a comparative study in rats. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 3153-3167	5.8	16
40	Sulfation of deoxynivalenol, its acetylated derivatives, and T2-toxin. <i>Tetrahedron</i> , <b>2014</b> , 70, 5260-5266	2.4	15
39	Drug-Exposome Interactions: The Next Frontier in Precision Medicine. <i>Trends in Pharmacological Sciences</i> , <b>2020</b> , 41, 994-1005	13.2	15
38	Stable Isotope-Assisted Metabolomics for Deciphering Xenobiotic Metabolism in Mammalian Cell Culture. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 970-981	4.9	13
37	Longitudinal assessment of mycotoxin co-exposures in exclusively breastfed infants. <i>Environment International</i> , <b>2020</b> , 142, 105845	12.9	12
36	Metabolomics guided pathway analysis reveals link between cancer metastasis, cholesterol sulfate, and phospholipids. <i>Cancer &amp; Metabolism</i> , <b>2017</b> , 5, 9	5.4	12
35	<i>Alternaria</i> toxins-Still emerging?. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2021</b> , 20, 4390-4406	14.1	12
34	Impact of glutathione modulation on the toxicity of the <i>Fusarium</i> mycotoxins deoxynivalenol (DON), NX-3 and butenolide in human liver cells. <i>Toxicology Letters</i> , <b>2018</b> , 299, 104-117	4.4	12
33	The Fate of Altertoxin II During Tomato Processing Steps at a Laboratory Scale. <i>Frontiers in Nutrition</i> , <b>2019</b> , 6, 92	6.2	11
32	Risk-Based Chemical Ranking and Generating a Prioritized Human Exposome Database. <i>Environmental Health Perspectives</i> , <b>2021</b> , 129, 47014	8.4	11
31	Natural contaminants in infant food: The case of regulated and emerging mycotoxins. <i>Food Control</i> , <b>2021</b> , 123, 107676	6.2	10
30	Hydrophilic interaction liquid chromatography coupled with tandem mass spectrometry for the quantification of uridine diphosphate-glucose, uridine diphosphate-glucuronic acid, deoxynivalenol and its glucoside: In-house validation and application to wheat. <i>Journal of Chromatography A</i> , <b>2015</b> , 1423, 183-9	4.5	9
29	Gut microbiota and undigested food constituents modify toxin composition and suppress the genotoxicity of a naturally occurring mixture of <i>Alternaria</i> toxins in vitro. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 3541-3552	5.8	9
28	Identification and Characterization of Carboxylesterases from <i>Brachypodium distachyon</i> Deacetylating Trichothecene Mycotoxins. <i>Toxins</i> , <b>2015</b> , 8,	4.9	9
27	The ripening disorder berry shrivel affects anthocyanin biosynthesis and sugar metabolism in Zweigelt grape berries. <i>Planta</i> , <b>2018</b> , 247, 471-481	4.7	9
26	<i>Fusarium culmorum</i> multi-toxin screening in malting and brewing by-products. <i>LWT - Food Science and Technology</i> , <b>2018</b> , 98, 642-645	5.4	8
25	Combinatory effects of cereulide and deoxynivalenol on in vitro cell viability and inflammation of human Caco-2 cells. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 833-844	5.8	7

24	Nontargeted Analysis Study Reporting Tool: A Framework to Improve Research Transparency and Reproducibility. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 13870-13879	7.8	7
23	Impact of Mixture Effects between Emerging Organic Contaminants on Cytotoxicity: A Systems Biological Understanding of Synergism between Tris(1,3-dichloro-2-propyl)phosphate and Triphenyl Phosphate. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 10722-10734	10.3	7
22	Assessment of multiple mycotoxins in raw milk of three different animal species in Nigeria. <i>Food Control</i> , <b>2022</b> , 131, 108258	6.2	7
21	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. <i>Annual Review of Food Science and Technology</i> , <b>2021</b> , 12, 461-484	14.7	6
20	Metabolomics Profiles of Smokers from Two Ethnic Groups with Differing Lung Cancer Risk. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 2087-2098	4	6
19	A review of microbes and chemical contaminants in dairy products in sub-Saharan Africa. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2021</b> , 20, 1188-1220	16.4	6
18	First determination of the highly genotoxic fungal contaminant alvertoxin II in a naturally infested apple sample. <i>Emerging Contaminants</i> , <b>2020</b> , 6, 82-86	5.8	5
17	Mycotoxin exposure biomonitoring in breastfed and non-exclusively breastfed Nigerian children.. <i>Environment International</i> , <b>2022</b> , 158, 106996	12.9	5
16	In vitro interactions of Alternaria mycotoxins, an emerging class of food contaminants, with the gut microbiota: a bidirectional relationship. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 2533-2549	5.8	5
15	Palbociclib and Fulvestrant Act in Synergy to Modulate Central Carbon Metabolism in Breast Cancer Cells. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	5
14	Mycotoxin-mixture assessment in mother-infant pairs in Nigeria: From mothers'Smeal to infants'S urine. <i>Chemosphere</i> , <b>2022</b> , 287, 132226	8.4	5
13	Fate of free and modified Alternaria mycotoxins during the production of apple concentrates. <i>Food Control</i> , <b>2020</b> , 118, 107388	6.2	4
12	Mycotoxin exposure biomonitoring in breastfed and non-exclusively breastfed Nigerian children		4
11	Microfiltration results in the loss of analytes and affects the in vitro genotoxicity of a complex mixture of Alternaria toxins. <i>Mycotoxin Research</i> , <b>2020</b> , 36, 399-408	4	4
10	An Introduction to the Benchmarking and Publications for Non-Targeted Analysis Working Group. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	3
9	Evaluating the Performance of Lateral Flow Devices for Total Aflatoxins with Special Emphasis on Their Robustness under Sub-Saharan Conditions. <i>Toxins</i> , <b>2021</b> , 13,	4.9	3
8	The fate of alvertoxin II during tomato processing steps at a laboratory scale		2
7	Assessing Mixture Effects of Cereulide and Deoxynivalenol on Intestinal Barrier Integrity and Uptake in Differentiated Human Caco-2 Cells. <i>Toxins</i> , <b>2021</b> , 13,	4.9	2

6	Trace analysis of emerging and regulated mycotoxins in infant stool by LC-MS/MS.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 1	4.4	2
5	Elucidation of xenoestrogen metabolism by non-targeted, stable isotope-assisted mass spectrometry in breast cancer cells. <i>Environment International</i> , <b>2021</b> , 158, 106940	12.9	1
4	Metabolomics reveals that dietary xenoestrogens alter cellular metabolism induced by palbociclib/letrozole combination cancer therapy		1
3	Next-generation biomonitoring of the early-life chemical exposome in neonatal and infant development.. <i>Nature Communications</i> , <b>2022</b> , 13, 2653	17.4	1
2	Quantifying up to 90 polyphenols simultaneously in human bio-fluids by LC-MS/MS. <i>Analytica Chimica Acta</i> , <b>2022</b> , 339977	6.6	1
1	N-acetyl cysteine alters the genotoxic and estrogenic properties of Alternaria toxins in naturally occurring mixtures. <i>Emerging Contaminants</i> , <b>2022</b> , 8, 30-38	5.8	0