

# Benedikt Warth

## List of Publications by Year in descending order

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112  
papers

6,491  
citations

57631

44  
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74018

75  
g-index

126  
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126  
docs citations

126  
times ranked

6477  
citing authors

#	ARTICLE	IF	CITATIONS
1	METLIN: A Technology Platform for Identifying Knowns and Unknowns. <i>Analytical Chemistry</i> , 2018, 90, 3156-3164.	3.2	696
2	Metabolomics activity screening for identifying metabolites that modulate phenotype. <i>Nature Biotechnology</i> , 2018, 36, 316-320.	9.4	319
3	Data processing, multi-omic pathway mapping, and metabolite activity analysis using XCMS Online. <i>Nature Protocols</i> , 2018, 13, 633-651.	5.5	207
4	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> , 2012, 60, 9352-9363.	2.4	204
5	Rational design of a microbial consortium of mucosal sugar utilizers reduces <i>Clostridiodes difficile</i> colonization. <i>Nature Communications</i> , 2020, 11, 5104.	5.8	177
6	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> , 2013, 31, 438-453.	2.8	170
7	New insights into the human metabolism of the <i>Fusarium</i> mycotoxins deoxynivalenol and zearalenone. <i>Toxicology Letters</i> , 2013, 220, 88-94.	0.4	165
8	Assessment of human deoxynivalenol exposure using an LC-MS/MS based biomarker method. <i>Toxicology Letters</i> , 2012, 211, 85-90.	0.4	145
9	Mycotoxin exposure in rural residents in northern Nigeria: A pilot study using multi-urinary biomarkers. <i>Environment International</i> , 2014, 66, 138-145.	4.8	129
10	Multiple mycotoxin exposure determined by urinary biomarkers in rural subsistence farmers in the former Transkei, South Africa. <i>Food and Chemical Toxicology</i> , 2013, 62, 217-225.	1.8	123
11	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> , 2012, 26, 1533-1540.	0.7	121
12	GC-MS based targeted metabolic profiling identifies changes in the wheat metabolome following deoxynivalenol treatment. <i>Metabolomics</i> , 2015, 11, 722-738.	1.4	117
13	Exposome-Scale Investigations Guided by Global Metabolomics, Pathway Analysis, and Cognitive Computing. <i>Analytical Chemistry</i> , 2017, 89, 11505-11513.	3.2	106
14	Synergistic estrogenic effects of <i>Fusarium</i> and <i>Alternaria</i> mycotoxins in vitro. <i>Archives of Toxicology</i> , 2017, 91, 1447-1460.	1.9	103
15	Bio-monitoring of mycotoxin exposure in Cameroon using a urinary multi-biomarker approach. <i>Food and Chemical Toxicology</i> , 2013, 62, 927-934.	1.8	102
16	METLIN MS2 molecular standards database: a broad chemical and biological resource. <i>Nature Methods</i> , 2020, 17, 953-954.	9.0	102
17	Ultra-sensitive, stable isotope assisted quantification of multiple urinary mycotoxin exposure biomarkers. <i>Analytica Chimica Acta</i> , 2018, 1019, 84-92.	2.6	101
18	Tracking emerging mycotoxins in food: development of an LC-MS/MS method for free and modified <i>Alternaria</i> toxins. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4481-4494.	1.9	93

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19	LC-MS/MS-based multibiomarker approaches for the assessment of human exposure to mycotoxins. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5687-5695.	1.9	88
20	Fungal and bacterial metabolites of stored maize ( <i>Zea mays</i> , L.) from five agro-ecological zones of Nigeria. <i>Mycotoxin Research</i> , 2014, 30, 89-102.	1.3	85
21	A fiber-deprived diet disturbs the fine-scale spatial architecture of the murine colon microbiome. <i>Nature Communications</i> , 2019, 10, 4366.	5.8	82
22	Aberrant gut-microbiota-immune-brain axis development in premature neonates with brain damage. <i>Cell Host and Microbe</i> , 2021, 29, 1558-1572.e6.	5.1	80
23	Mycotoxin risk assessment for consumers of groundnut in domestic markets in Nigeria. <i>International Journal of Food Microbiology</i> , 2017, 251, 24-32.	2.1	78
24	Biomonitoring of Mycotoxins in Human Breast Milk: Current State and Future Perspectives. <i>Chemical Research in Toxicology</i> , 2016, 29, 1087-1097.	1.7	77
25	Natural occurrence of mycotoxins in peanut cake from Nigeria. <i>Food Control</i> , 2012, 27, 338-342.	2.8	75
26	Investigation of the Hepatic Glucuronidation Pattern of the Fusarium Mycotoxin Deoxynivalenol in Various Species. <i>Chemical Research in Toxicology</i> , 2012, 25, 2715-2717.	1.7	73
27	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> , 2013, 30, 596-601.	2.8	72
28	Urinary analysis reveals high deoxynivalenol exposure in pregnant women from Croatia. <i>Food and Chemical Toxicology</i> , 2013, 62, 231-237.	1.8	71
29	Deoxynivalenol-sulfates: identification and quantification of novel conjugated (masked) mycotoxins in wheat. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1033-1039.	1.9	68
30	Monitoring Early Life Mycotoxin Exposures via LC-MS/MS Breast Milk Analysis. <i>Analytical Chemistry</i> , 2018, 90, 14569-14577.	3.2	63
31	Non-synergistic cytotoxic effects of Fusarium and Alternaria toxin combinations in Caco-2 cells. <i>Toxicology Letters</i> , 2016, 241, 1-8.	0.4	59
32	Direct quantification of deoxynivalenol glucuronide in human urine as biomarker of exposure to the Fusarium mycotoxin deoxynivalenol. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 195-200.	1.9	57
33	An integrated in silico/in vitro approach to assess the xenoestrogenic potential of Alternaria mycotoxins and metabolites. <i>Food Chemistry</i> , 2018, 248, 253-261.	4.2	57
34	Quantitation of free and modified Alternaria mycotoxins in European food products by LC-MS/MS. <i>Food Control</i> , 2019, 102, 157-165.	2.8	56
35	A Generic Liquid Chromatography-Tandem Mass Spectrometry Exposome Method for the Determination of Xenoestrogens in Biological Matrices. <i>Analytical Chemistry</i> , 2019, 91, 11334-11342.	3.2	53
36	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> , 2014, 31, 2040-2046.	1.1	52

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37	In vitro glucuronidation kinetics of deoxynivalenol by human and animal microsomes and recombinant human UGT enzymes. <i>Archives of Toxicology</i> , 2015, 89, 949-960.	1.9	52
38	Metabolomics Reveals that Dietary Xenoestrogens Alter Cellular Metabolism Induced by Palbociclib/Letrozole Combination Cancer Therapy. <i>Cell Chemical Biology</i> , 2018, 25, 291-300.e3.	2.5	52
39	First insights into <i>Alternaria</i> multi-toxin in vivo metabolism. <i>Toxicology Letters</i> , 2019, 301, 168-178.	0.4	52
40	From malt to wheat beer: A comprehensive multi-toxin screening, transfer assessment and its influence on basic fermentation parameters. <i>Food Chemistry</i> , 2018, 254, 115-121.	4.2	51
41	<i>Alternaria</i> toxinsâ€™ Still emerging?. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 4390-4406.	5.9	51
42	Combinatory estrogenic effects between the isoflavone genistein and the mycotoxins zearalenone and alternariol in vitro. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600526.	1.5	50
43	Comparison of <i>Fusarium graminearum</i> Transcriptomes on Living or Dead Wheat Differentiates Substrate-Responsive and Defense-Responsive Genes. <i>Frontiers in Microbiology</i> , 2016, 7, 1113.	1.5	48
44	Mycological Analysis and Multimycotoxins in Maize from Rural Subsistence Farmers in the Former Transkei, South Africa. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8232-8240.	2.4	47
45	Transfer and Metabolism of the Xenoestrogen Zearalenone in Human Perfused Placenta. <i>Environmental Health Perspectives</i> , 2019, 127, 107004.	2.8	47
46	Nontargeted Analysis Study Reporting Tool: A Framework to Improve Research Transparency and Reproducibility. <i>Analytical Chemistry</i> , 2021, 93, 13870-13879.	3.2	47
47	Fate of mycotoxins in two popular traditional cereal-based beverages (kunu-zaki and pito) from rural Nigeria. <i>LWT - Food Science and Technology</i> , 2015, 60, 137-141.	2.5	46
48	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> , 2015, 5, 2579-2592.	0.8	45
49	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> , 2012, 29, 1288-1299.	1.1	43
50	Identification of a novel human deoxynivalenol metabolite enhancing proliferation of intestinal and urinary bladder cells. <i>Scientific Reports</i> , 2016, 6, 33854.	1.6	40
51	Mycotoxin patterns in ear rot infected maize: A comprehensive case study in Nigeria. <i>Food Control</i> , 2017, 73, 1159-1168.	2.8	40
52	Delphinidin protects colon carcinoma cells against the genotoxic effects of the mycotoxin altertoxin II. <i>Toxicology Letters</i> , 2018, 284, 136-142.	0.4	40
53	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> , 2010, 147, 37-45.	1.9	38
54	Fungal and mycotoxin assessment of dried edible mushroom in Nigeria. <i>International Journal of Food Microbiology</i> , 2013, 162, 231-236.	2.1	38

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55	Uncommon toxic microbial metabolite patterns in traditionally home-processed maize dish ( fufu ) consumed in rural Cameroon. <i>Food and Chemical Toxicology</i> , 2017, 107, 10-19.	1.8	38
56	Synthesis of deoxynivalenol-3- $\beta$ -D-O-glucuronide for its use as biomarker for dietary deoxynivalenol exposure. <i>World Mycotoxin Journal</i> , 2012, 5, 127-132.	0.8	37
57	Fluorinated Gold Nanoparticles for Nanostructure Imaging Mass Spectrometry. <i>ACS Nano</i> , 2018, 12, 6938-6948.	7.3	37
58	Traditional processing impacts mycotoxin levels and nutritional value of ogi – A maize-based complementary food. <i>Food Control</i> , 2018, 86, 224-233.	2.8	36
59	Multi-microbial metabolites in fonio millet (acha) and sesame seeds in Plateau State, Nigeria. <i>European Food Research and Technology</i> , 2012, 235, 285-293.	1.6	35
60	Risk-Based Chemical Ranking and Generating a Prioritized Human Exposome Database. <i>Environmental Health Perspectives</i> , 2021, 129, 47014.	2.8	35
61	Drug-Exposome Interactions: The Next Frontier in Precision Medicine. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 994-1005.	4.0	34
62	Naturally occurring mixtures of <i>Alternaria</i> toxins: anti-estrogenic and genotoxic effects in vitro. <i>Archives of Toxicology</i> , 2019, 93, 3021-3031.	1.9	33
63	Mycotoxins in uncooked and plate-ready household food from rural northern Nigeria. <i>Food and Chemical Toxicology</i> , 2019, 128, 171-179.	1.8	31
64	Exposure to Mycotoxin-Mixtures via Breast Milk: An Ultra-Sensitive LC-MS/MS Biomonitoring Approach. <i>Frontiers in Chemistry</i> , 2020, 8, 423.	1.8	31
65	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> , 2015, 7, 3112-3126.	1.5	30
66	The <i>Fusarium</i> metabolite culmorin suppresses the in vitro glucuronidation of deoxynivalenol. <i>Archives of Toxicology</i> , 2019, 93, 1729-1743.	1.9	30
67	An Introduction to the Benchmarking and Publications for Non-Targeted Analysis Working Group. <i>Analytical Chemistry</i> , 2021, 93, 16289-16296.	3.2	30
68	Metabolizing Data in the Cloud. <i>Trends in Biotechnology</i> , 2017, 35, 481-483.	4.9	29
69	Fast and reproducible chemical synthesis of zearalenone-14- $\beta$ -D-glucuronide. <i>World Mycotoxin Journal</i> , 2012, 5, 289-296.	0.8	28
70	Bioavailability, metabolism, and excretion of a complex <i>Alternaria</i> culture extract versus alvertoxin II: a comparative study in rats. <i>Archives of Toxicology</i> , 2019, 93, 3153-3167.	1.9	28
71	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> , 2017, 91, 1213-1226.	1.9	27
72	The secondary <i>Fusarium</i> metabolite aurofusarin induces oxidative stress, cytotoxicity and genotoxicity in human colon cells. <i>Toxicology Letters</i> , 2018, 284, 170-183.	0.4	26

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73	Response of intestinal HT-29 cells to the trichothecene mycotoxin deoxynivalenol and its sulfated conjugates. <i>Toxicology Letters</i> , 2018, 295, 424-437.	0.4	26
74	Longitudinal assessment of mycotoxin co-exposures in exclusively breastfed infants. <i>Environment International</i> , 2020, 142, 105845.	4.8	25
75	Stable Isotope-Assisted Metabolomics for Deciphering Xenobiotic Metabolism in Mammalian Cell Culture. <i>ACS Chemical Biology</i> , 2020, 15, 970-981.	1.6	25
76	Autonomous Multimodal Metabolomics Data Integration for Comprehensive Pathway Analysis and Systems Biology. <i>Analytical Chemistry</i> , 2018, 90, 8396-8403.	3.2	24
77	Assessment of multiple mycotoxins in raw milk of three different animal species in Nigeria. <i>Food Control</i> , 2022, 131, 108258.	2.8	24
78	Mycotoxin exposure biomonitoring in breastfed and non-exclusively breastfed Nigerian children. <i>Environment International</i> , 2022, 158, 106996.	4.8	24
79	Data Streaming for Metabolomics: Accelerating Data Processing and Analysis from Days to Minutes. <i>Analytical Chemistry</i> , 2017, 89, 1254-1259.	3.2	23
80	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> , 2017, 258, 73-80.	2.1	23
81	Next-generation biomonitoring of the early-life chemical exposome in neonatal and infant development. <i>Nature Communications</i> , 2022, 13, 2653.	5.8	23
82	Natural contaminants in infant food: The case of regulated and emerging mycotoxins. <i>Food Control</i> , 2021, 123, 107676.	2.8	22
83	Mycotoxin-mixture assessment in mother-infant pairs in Nigeria: From mothers' meal to infants' urine. <i>Chemosphere</i> , 2022, 287, 132226.	4.2	22
84	Comparison of single and multi-analyte methods based on LC-MS/MS for mycotoxin biomarker determination in human urine. <i>World Mycotoxin Journal</i> , 2013, 6, 355-366.	0.8	21
85	A mini-survey of moulds and mycotoxins in locally grown and imported wheat grains in Nigeria. <i>Mycotoxin Research</i> , 2017, 33, 59-64.	1.3	20
86	Metabolomics guided pathway analysis reveals link between cancer metastasis, cholesterol sulfate, and phospholipids. <i>Cancer &amp; Metabolism</i> , 2017, 5, 9.	2.4	18
87	Identification and Characterization of Carboxylesterases from <i>Brachypodium distachyon</i> Deacetylating Trichothecene Mycotoxins. <i>Toxins</i> , 2016, 8, 6.	1.5	17
88	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> , 2018, 299, 104-117.	0.4	17
89	Combinatory effects of cereulide and deoxynivalenol on in vitro cell viability and inflammation of human Caco-2 cells. <i>Archives of Toxicology</i> , 2020, 94, 833-844.	1.9	17
90	Polyphenol Exposure, Metabolism, and Analysis: A Global Exposomics Perspective. <i>Annual Review of Food Science and Technology</i> , 2021, 12, 461-484.	5.1	17

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91	Sulfation of deoxynivalenol, its acetylated derivatives, and T2-toxin. <i>Tetrahedron</i> , 2014, 70, 5260-5266.	1.0	16
92	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> , 2020, 54, 10722-10734.	4.6	16
93	A review of microbes and chemical contaminants in dairy products in sub-Saharan Africa. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 1188-1220.	5.9	16
94	The ripening disorder berry shrivel affects anthocyanin biosynthesis and sugar metabolism in Zweigelt grape berries. <i>Planta</i> , 2018, 247, 471-481.	1.6	15
95	The Fate of Alvertoxin II During Tomato Processing Steps at a Laboratory Scale. <i>Frontiers in Nutrition</i> , 2019, 6, 92.	1.6	15
96	Fate of free and modified <i>Alternaria</i> mycotoxins during the production of apple concentrates. <i>Food Control</i> , 2020, 118, 107388.	2.8	15
97	Metabolomics Profiles of Smokers from Two Ethnic Groups with Differing Lung Cancer Risk. <i>Chemical Research in Toxicology</i> , 2020, 33, 2087-2098.	1.7	14
98	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> , 2015, 1423, 183-189.	1.8	13
99	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> , 2020, 94, 3541-3552.	1.9	13
100	Quantifying up to 90 polyphenols simultaneously in human bio-fluids by LC-MS/MS. <i>Analytica Chimica Acta</i> , 2022, 1216, 339977.	2.6	13
101	Early-life chemical exposome and gut microbiome development: African research perspectives within a global environmental health context. <i>Trends in Microbiology</i> , 2022, 30, 1084-1100.	3.5	13
102	<i>Fusarium culmorum</i> multi-toxin screening in malting and brewing by-products. <i>LWT - Food Science and Technology</i> , 2018, 98, 642-645.	2.5	12
103	First determination of the highly genotoxic fungal contaminant alvertoxin II in a naturally infested apple sample. <i>Emerging Contaminants</i> , 2020, 6, 82-86.	2.2	12
104	In vitro interactions of <i>Alternaria</i> mycotoxins, an emerging class of food contaminants, with the gut microbiota: a bidirectional relationship. <i>Archives of Toxicology</i> , 2021, 95, 2533-2549.	1.9	12
105	Trace analysis of emerging and regulated mycotoxins in infant stool by LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 7503-7516.	1.9	11
106	Palbociclib and Fulvestrant Act in Synergy to Modulate Central Carbon Metabolism in Breast Cancer Cells. <i>Metabolites</i> , 2019, 9, 7.	1.3	10
107	PeakBot: machine-learning-based chromatographic peak picking. <i>Bioinformatics</i> , 2022, 38, 3422-3428.	1.8	10
108	Elucidation of xenoestrogen metabolism by non-targeted, stable isotope-assisted mass spectrometry in breast cancer cells. <i>Environment International</i> , 2022, 158, 106940.	4.8	9

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109	Microfiltration results in the loss of analytes and affects the in vitro genotoxicity of a complex mixture of Alternaria toxins. <i>Mycotoxin Research</i> , 2020, 36, 399-408.	1.3	8
110	Assessing Mixture Effects of Cereulide and Deoxynivalenol on Intestinal Barrier Integrity and Uptake in Differentiated Human Caco-2 Cells. <i>Toxins</i> , 2021, 13, 189.	1.5	7
111	N-acetyl cysteine alters the genotoxic and estrogenic properties of Alternaria toxins in naturally occurring mixtures. <i>Emerging Contaminants</i> , 2022, 8, 30-38.	2.2	7
112	Evaluating the Performance of Lateral Flow Devices for Total Aflatoxins with Special Emphasis on Their Robustness under Sub-Saharan Conditions. <i>Toxins</i> , 2021, 13, 742.	1.5	6