Rainer Schuhmacher

List of Publications by Citations

152 papers	8,083 citations	50 h-index	86 g-index
162 ext. papers	9,233 ext. citations	4.5 avg, IF	5.84 L-index

#	Paper	IF	Citations
152	Development and validation of a liquid chromatography/tandem mass spectrometric method for the determination of 39 mycotoxins in wheat and maize. *Rapid Communications in Mass Spectrometry*, **2006**, 20, 2649-59	2.2	545
151	Detoxification of the Fusarium mycotoxin deoxynivalenol by a UDP-glucosyltransferase from Arabidopsis thaliana. *Journal of Biological Chemistry*, **2003**, 278, 47905-14	5.4	396
150	A liquid chromatography/tandem mass spectrometric multi-mycotoxin method for the quantification of 87 analytes and its application to semi-quantitative screening of moldy food samples. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 1505-23	4.4	331
149	Masked mycotoxins: determination of a deoxynivalenol glucoside in artificially and naturally contaminated wheat by liquid chromatography-tandem mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 3421-5	5.7	317
148	The ability to detoxify the mycotoxin deoxynivalenol colocalizes with a major quantitative trait locus for Fusarium head blight resistance in wheat. *Molecular Plant-Microbe Interactions*, **2005**, 18, 1318-24	3.6	299
147	Rapid simultaneous determination of major type A- and B-trichothecenes as well as zearalenone in maize by high performance liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A*, **2005**, 1062, 209-16	4.5	232
146	Identification and profiling of volatile metabolites of the biocontrol fungus Trichoderma atroviride by HS-SPME-GC-MS. *Journal of Microbiological Methods*, **2010**, 81, 187-93	2.8	188
145	Hydrolytic fate of deoxynivalenol-3-glucoside during digestion. *Toxicology Letters*, **2011**, 206, 264-7	4.4	186
144	Quantitation of mycotoxins in food and feed from Burkina Faso and Mozambique using a modern LC-MS/MS multitoxin method. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 9352-63	5.7	172
143	Application of an LC-MS/MS based multi-mycotoxin method for the semi-quantitative determination of mycotoxins occurring in different types of food infected by moulds. *Food Chemistry*, **2010**, 119, 408-416	8.5	169
142	Formation, determination and significance of masked and other conjugated mycotoxins. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 1243-52	4.4	165
141	Occurrence of deoxynivalenol and its 3-beta-D-glucoside in wheat and maize. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2009**, 26, 507-11	3.2	149
140	New insights into the human metabolism of the Fusarium mycotoxins deoxynivalenol and zearalenone. *Toxicology Letters*, **2013**, 220, 88-94	4.4	141
139	The G protein alpha subunit Tga1 of Trichoderma atroviride is involved in chitinase formation and differential production of antifungal metabolites. *Fungal Genetics and Biology*, **2005**, 42, 749-60	3.9	140
138	Assessment of human deoxynivalenol exposure using an LC-MS/MS based biomarker method. *Toxicology Letters*, **2012**, 211, 85-90	4.4	131
137	Liquid chromatography-mass spectrometry for the determination of chemical contaminants in food. *TrAC - Trends in Analytical Chemistry*, **2014**, 59, 59-72	14.6	124
136	Signaling via the Trichoderma atroviride mitogen-activated protein kinase Tmk 1 differentially affects mycoparasitism and plant protection. *Fungal Genetics and Biology*, **2007**, 44, 1123-33	3.9	121

135	Development and validation of a (semi-)quantitative UHPLC-MS/MS method for the determination of 191 mycotoxins and other fungal metabolites in almonds, hazelnuts, peanuts and pistachios. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 5087-104	4.4	118
134	Development and validation of a rapid multi-biomarker liquid chromatography/tandem mass spectrometry method to assess human exposure to mycotoxins. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 1533-40	2.2	112
133	New tricks of an old enemy: isolates of Fusarium graminearum produce a type A trichothecene mycotoxin. *Environmental Microbiology*, **2015**, 17, 2588-600	5.2	111
132	Chromatographic methods for the simultaneous determination of mycotoxins and their conjugates in cereals. *International Journal of Food Microbiology*, **2007**, 119, 33-7	5.8	110
131	Severe drought stress is affecting selected primary metabolites, polyphenols, and volatile metabolites in grapevine leaves (Vitis vinifera cv. Pinot noir). *Plant Physiology and Biochemistry*, **2015**, 88, 17-26	5.4	102
130	Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2675-86	4.4	101
129	Difficulties in fumonisin determination: the issue of hidden fumonisins. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 1335-45	4.4	96
128	On the inter-instrument and inter-laboratory transferability of a tandem mass spectral reference library: 1. Results of an Austrian multicenter study. *Journal of Mass Spectrometry*, **2009**, 44, 485-93	2.2	92
127	Stable isotopic labelling-assisted untargeted metabolic profiling reveals novel conjugates of the mycotoxin deoxynivalenol in wheat. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 5031-6	4.4	88
126	Liquid chromatography coupled to tandem mass spectrometry (LC-MS/MS) determination of phase II metabolites of the mycotoxin zearalenone in the model plant Arabidopsis thaliana. *Food Additives and Contaminants*, **2006**, 23, 1194-200		88
125	Validated method for the determination of the ethanol consumption markers ethyl glucuronide, ethyl phosphate, and ethyl sulfate in human urine by reversed-phase/weak anion exchange liquid chromatography-tandem mass spectrometry. *Analytical Chemistry*, **2006**, 78, 5884-92	7.8	86
124	On the inter-instrument and the inter-laboratory transferability of a tandem mass spectral reference library: 2. Optimization and characterization of the search algorithm. *Journal of Mass Spectrometry*, **2009**, 44, 494-502	2.2	82
123	Retention pattern profiling of fungal metabolites on mixed-mode reversed-phase/weak anion exchange stationary phases in comparison to reversed-phase and weak anion exchange separation materials by liquid chromatography-electrospray ionisation-tandem mass spectrometry. *Journal of Chromatography A*, **2008**, 1191, 171-81	4.5	81
122	Application of a liquid chromatography-tandem mass spectrometric method to multi-mycotoxin determination in raw cereals and evaluation of matrix effects. *Food Additives and Contaminants*, **2007**, 24, 1184-95		79
121	Advanced LC-MS-based methods to study the co-occurrence and metabolization of multiple mycotoxins in cereals and cereal-based food. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 801-825	4.4	75
120	Isotope-assisted screening for iron-containing metabolites reveals a high degree of diversity among known and unknown siderophores produced by Trichoderma spp. *Applied and Environmental Microbiology*, **2013**, 79, 18-31	4.8	70
119	Isotopic labeling-assisted metabolomics using LC-MS. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 27-33	4.4	67
118	GC-MS based targeted metabolic profiling identifies changes in the wheat metabolome following deoxynivalenol treatment. *Metabolomics*, **2015**, 11, 722-738	4.7	66

117	Biotransformation of the mycotoxin deoxynivalenol in fusarium resistant and susceptible near isogenic wheat lines. *PLoS ONE*, **2015**, 10, e0119656	3.7	65
116	Overexpression of the UGT73C6 alters brassinosteroid glucoside formation in Arabidopsis thaliana. *BMC Plant Biology*, **2011**, 11, 51	5.3	65
115	Toxigenicity and pathogenicity of Fusarium poae and Fusarium avenaceum on wheat. *European Journal of Plant Pathology*, **2008**, 122, 265-276	2.1	64
114	The comprehensive peptaibiotics database. *Chemistry and Biodiversity*, **2013**, 10, 734-43	2.5	62
113	Cleavage of zearalenone by Trichosporon mycotoxinivorans to a novel nonestrogenic metabolite. *Applied and Environmental Microbiology*, **2010**, 76, 2353-9	4.8	62
112	MetExtract: a new software tool for the automated comprehensive extraction of metabolite-derived LC/MS signals in metabolomics research. *Bioinformatics*, **2012**, 28, 736-8	7.2	62
111	Surfactin variants mediate species-specific biofilm formation and root colonization in Bacillus. *Environmental Microbiology*, **2016**, 18, 2634-45	5.2	62
110	A putative terpene cyclase, vir4, is responsible for the biosynthesis of volatile terpene compounds in the biocontrol fungus Trichoderma virens. *Fungal Genetics and Biology*, **2013**, 56, 67-77	3.9	61
109	Heterologous expression of Arabidopsis UDP-glucosyltransferases in Saccharomyces cerevisiae for production of zearalenone-4-O-glucoside. *Applied and Environmental Microbiology*, **2006**, 72, 4404-10	4.8	61
108	Suitability of a fully 13C isotope labeled internal standard for the determination of the mycotoxin deoxynivalenol by LC-MS/MS without clean up. *Analytical and Bioanalytical Chemistry*, **2006**, 384, 692-6	4.4	60
107	A novel stable isotope labelling assisted workflow for improved untargeted LC-HRMS based metabolomics research. *Metabolomics*, **2014**, 10, 754-769	4.7	57
106	Deoxynivalenol-sulfates: identification and quantification of novel conjugated (masked) mycotoxins in wheat. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 1033-9	4.4	56
105	Direct quantification of deoxynivalenol glucuronide in human urine as biomarker of exposure to the Fusarium mycotoxin deoxynivalenol. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 195-200	4.4	56
104	Metabolism of the Fusarium Mycotoxins T-2 Toxin and HT-2 Toxin in Wheat. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 7862-72	5.7	54
103	Methanol Generates Numerous Artifacts during Sample Extraction and Storage of Extracts in Metabolomics Research. *Metabolites*, **2017**, 8,	5.6	50
102	Transcription factor Xpp1 is a switch between primary and secondary fungal metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E560-E569	11.5	49
101	The peptaibiotics database--a comprehensive online resource. *Chemistry and Biodiversity*, **2015**, 12, 743-51	2.15	47
100	Effect of fungal strain and cereal substrate on in vitro mycotoxin production by Fusarium poae and Fusarium avenaceum. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2008**, 25, 745-57	3.2	47

99	Tracing the metabolism of HT-2 toxin and T-2 toxin in barley by isotope-assisted untargeted screening and quantitative LC-HRMS analysis. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 8019-33	4.4	46
98	MetExtract II: A Software Suite for Stable Isotope-Assisted Untargeted Metabolomics. *Analytical Chemistry*, **2017**, 89, 9518-9526	7.8	45
97	Interlaboratory comparison study for the determination of the Fusarium mycotoxins deoxynivalenol in wheat and zearalenone in maize using different methods. *Freseniusl Journal of Analytical Chemistry*, **1997**, 359, 510-515		42
96	The Effect of Inoculation Treatment and Long-term Application of Moisture on Fusarium Head Blight Symptoms and Deoxynivalenol Contamination in Wheat Grains. *European Journal of Plant Pathology*, **2004**, 110, 299-308	2.1	42
95	The volatile metabolome of grapevine roots: first insights into the metabolic response upon phylloxera attack. *Plant Physiology and Biochemistry*, **2011**, 49, 1059-63	5.4	41
94	Selection of possible marker peptides for the detection of major ruminant milk proteins in food by liquid chromatography-tandem mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 1105-15	4.4	39
93	Immuno-affinity columns versus conventional clean-up: a method-comparison study for the determination of zearalenone in corn. *Freseniusl Journal of Analytical Chemistry*, **1998**, 360, 241-245		36
92	Identification of a novel human deoxynivalenol metabolite enhancing proliferation of intestinal and urinary bladder cells. *Scientific Reports*, **2016**, 6, 33854	4.9	36
91	Untargeted profiling of tracer-derived metabolites using stable isotopic labeling and fast polarity-switching LC-ESI-HRMS. *Analytical Chemistry*, **2014**, 86, 11533-7	7.8	35
90	Determination of the Fusarium mycotoxin beauvericin at micrograms/kg levels in corn by high-performance liquid chromatography with diode-array detection. *Journal of Chromatography A*, **1996**, 746, 233-8	4.5	33
89	Emission of volatile sesquiterpenes and monoterpenes in grapevine genotypes following Plasmopara viticola inoculation in vitro. *Journal of Mass Spectrometry*, **2015**, 50, 1013-1022	2.2	32
88	Establishment and application of a metabolomics workflow for identification and profiling of volatiles from leaves of Vitis vinifera by HS-SPME-GC-MS. *Phytochemical Analysis*, **2012**, 23, 345-58	3.4	29
87	Cooccurrence of mycotoxins in maize and poultry feeds from Brazil by liquid chromatography/tandem mass spectrometry. *Scientific World Journal, The*, **2013**, 2013, 427369	2.2	29
86	Evaluation of LC-high-resolution FT-Orbitrap MS for the quantification of selected mycotoxins and the simultaneous screening of fungal metabolites in food. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2011**, 28, 1457-68	3.2	29
85	Characterization of (13C24) T-2 toxin and its use as an internal standard for the quantification of T-2 toxin in cereals with HPLC-MS/MS. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 931-40	4.4	29
84	Optimization, in-house validation, and application of a liquid chromatography-tandem mass spectrometry (LC-MS/MS)-based method for the quantification of selected polyphenolic compounds in leaves of grapevine (Vitis vinifera L.). *Journal of Agricultural and Food Chemistry*, **2011**, 59, 10787-94	5.7	28
83	Short review: Metabolism of theFusarium mycotoxins deoxynivalenol and zearalenone in plants. *Mycotoxin Research*, **2007**, 23, 68-72	4	28
82	Stable Isotope-Assisted Evaluation of Different Extraction Solvents for Untargeted Metabolomics of Plants. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	26

81	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. *Toxins*, **2015**, 7, 3112-26	4.9	25
80	Joint Transcriptomic and Metabolomic Analyses Reveal Changes in the Primary Metabolism and Imbalances in the Subgenome Orchestration in the Bread Wheat Molecular Response to Fusarium graminearum. *G3: Genes, Genomes, Genetics*, **2015**, 5, 2579-92	3.2	25
79	Preparation and characterization of the conjugated Fusarium mycotoxins zearalenone-4O-beta-D-glucopyranoside, alpha-zearalenol-4O-beta-D-glucopyranoside and beta-zearalenol-4O-beta-D-glucopyranoside by MS/MS and two-dimensional NMR. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2009**, 26, 207-13	3.2	25
78	Downy mildew symptoms on grapevines can be reduced by volatile organic compounds of resistant genotypes. *Scientific Reports*, **2018**, 8, 1618	4.9	24
77	The contribution of lot-to-lot variation to the measurement uncertainty of an LC-MS-based multi-mycotoxin assay. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 4409-4418	4.4	24
76	Glucuronidation of piceatannol by human liver microsomes: major role of UGT1A1, UGT1A8 and UGT1A10. *Journal of Pharmacy and Pharmacology*, **2010**, 62, 47-54	4.8	24
75	The Profile and Dynamics of RNA Modifications in Animals. *ChemBioChem*, **2017**, 18, 979-984	3.8	23
74	A reference-gene-based quantitative PCR method as a tool to determine Fusarium resistance in wheat. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 1385-94	4.4	22
73	Metabolism of HT-2 Toxin and T-2 Toxin in Oats. *Toxins*, **2016**, 8,	4.9	22
72	Profiling of trichorzianines in culture samples of Trichoderma atroviride by liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2007**, 21, 3963-70	2.2	21
71	Processing and purity assessment of standards for the analysis of type-B trichothecene mycotoxins. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 1848-58	4.4	21
70	Automated LC-HRMS(/MS) approach for the annotation of fragment ions derived from stable isotope labeling-assisted untargeted metabolomics. *Analytical Chemistry*, **2014**, 86, 7320-7	7.8	20
69	Characterisation of the peptaibiome of the biocontrol fungus Trichoderma atroviride by liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 1889-98	2.2	20
68	Glutathione-Conjugates of Deoxynivalenol in Naturally Contaminated Grain Are Primarily Linked via the Epoxide Group. *Toxins*, **2016**, 8,	4.9	20
67	Comparison of Fusarium graminearum Transcriptomes on Living or Dead Wheat Differentiates Substrate-Responsive and Defense-Responsive Genes. *Frontiers in Microbiology*, **2016**, 7, 1113	5.7	20
66	Novel analytical methods to study the fate of mycotoxins during thermal food processing. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 9-16	4.4	20
65	Characterization and application of isotope-substituted (13C15)-deoxynivalenol (DON) as an internal standard for the determination of DON. *Food Additives and Contaminants*, **2006**, 23, 1187-93		19
64	DON-glycosides: Characterisation of synthesis products and screening for their occurrence in DON-treated wheat samples. *Mycotoxin Research*, **2005**, 21, 123-7	4	19

63	Studying the polyphenols of grapevine leaves according to age and insertion level under controlled conditions. *Scientia Horticulturae*, **2012**, 141, 37-41	4.1	18
62	Evaluation of settled floor dust for the presence of microbial metabolites and volatile anthropogenic chemicals in indoor environments by LC-MS/MS and GC-MS methods. *Talanta*, **2011**, 85, 2027-38	6.2	18
61	Accumulation of the Mycotoxin Beauvericin in Kernels of Corn Hybrids Inoculated withFusariumsubglutinans. *Journal of Agricultural and Food Chemistry*, **1996**, 44, 3665-3667	5.7	18
60	Tracing flavonoid degradation in grapes by MS filtering with stable isotopes. *Food Chemistry*, **2015**, 166, 448-455	8.5	17
59	YPR2 is a regulator of light modulated carbon and secondary metabolism in Trichoderma reesei. *BMC Genomics*, **2019**, 20, 211	4.5	17
58	Isolation and characterization of a new less-toxic derivative of the Fusarium mycotoxin diacetoxyscirpenol after thermal treatment. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 9709-14	5.7	17
57	Performance of new clean-up column for the determination of ochratoxin A in cereals and foodstuffs by HPLC-FLD. *Food Additives and Contaminants*, **2004**, 21, 1107-14		17
56	Stable Isotope-Assisted Plant Metabolomics: Investigation of Phenylalanine-Related Metabolic Response in Wheat Upon Treatment With the Virulence Factor Deoxynivalenol. *Frontiers in Plant Science*, **2019**, 10, 1137	6.2	16
55	Investigations on the ability ofFhb1to protect wheat against nivalenol and deoxynivalenol. *Cereal Research Communications*, **2008**, 36, 429-435	1.1	16
54	Recent developments in the application of liquid chromatography-tandem mass spectrometry for the determination of organic residues and contaminants. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 253-6	4.4	16
53	Synthesis of deoxynivalenol-glucosides and their characterization using a QTrap LC-MS/MS. *Mycotoxin Research*, **2003**, 19, 47-50	4	16
52	Interlaboratory comparison study for the determination of methyl tert-butyl ether in water. *Analytical and Bioanalytical Chemistry*, **2003**, 377, 1140-7	4.4	16
51	Isolation and characterisation of enzymatic zearalenone hydrolysis reaction products. *World Mycotoxin Journal*, **2016**, 9, 353-363	2.5	16
50	A rapid and sensitive GC-MS method for determination of 1,3-dichloro-2-propanol in water. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 366-71	4.4	15
49	Untargeted LC-MS based C labelling provides a full mass balance of deoxynivalenol and its degradation products formed during baking of crackers, biscuits and bread. *Food Chemistry*, **2019**, 279, 303-311	8.5	15
48	QCScreen: a software tool for data quality control in LC-HRMS based metabolomics. *BMC Bioinformatics*, **2015**, 16, 341	3.6	14
47	In-vitro sulfation of piceatannol by human liver cytosol and recombinant sulfotransferases. *Journal of Pharmacy and Pharmacology*, **2010**, 61, 185-191	4.8	14
46	Stable Isotope-Assisted Metabolomics for Deciphering Xenobiotic Metabolism in Mammalian Cell Culture. *ACS Chemical Biology*, **2020**, 15, 970-981	4.9	13

45	Volatile Organic Compounds From AZ78 as Potential Candidates for Biological Control of Soilborne Plant Pathogens. *Frontiers in Microbiology*, **2020**, 11, 1748	5.7	13
44	Effects of beauvericin to mammalian tissue and its production by Austrian isolates ofFusarium proliferatum and Fusarium subglutinans. *Mycotoxin Research*, **1997**, 13, 11-6	4	13
43	Determination of measurement uncertainty for the determination of triazines in groundwater from validation data. *Analyst, The*, **2001**, 126, 211-6	5	13
42	Correlating physiological parameters with biomarkers for UV-B stress indicators in leaves of grapevine cultivars Pinot noir and Riesling. *Journal of Agricultural Science*, **2013**, 151, 189-200	1	12
41	Valproic Acid Induces Antimicrobial Compound Production in Doratomyces microspores. *Frontiers in Microbiology*, **2016**, 7, 510	5.7	12
40	Determination of Ergot Alkaloids: Purity and Stability Assessment of Standards and Optimization of Extraction Conditions for Cereal Samples. *Journal of AOAC INTERNATIONAL*, **2008**, 91, 1363-1371	1.7	11
39	A rapid method for the determination of the Fusarium mycotoxinbeauvericin in maize. *Freseniusl Journal of Analytical Chemistry*, **1999**, 363, 130-131		11
38	Tracing oxidation reaction pathways in wine using C isotopolog patterns and a putative compound database. *Analytica Chimica Acta*, **2019**, 1054, 74-83	6.6	11
37	Mycotoxin testing: From Multi-toxin analysis to metabolomics. *Mycotoxins*, **2017**, 67, 11-16	0.2	10
36	Trichoderma spp. volatile organic compounds protect grapevine plants by activating defense-related processes against downy mildew. *Physiologia Plantarum*, **2021**, 172, 1950-1965	4.6	10
35	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. *Journal of Chromatography A*, **2015**, 1423, 183-9	4.5	9
34	Production of zearalenone-4-glucoside, a-zearalenol-4-glucoside and □zearalenol-4-glucoside. *Mycotoxin Research*, **2007**, 23, 180-4	4	9
33	Identification and Characterization of Carboxylesterases from Brachypodium distachyon Deacetylating Trichothecene Mycotoxins. *Toxins*, **2015**, 8,	4.9	9
32	Polyphenolic profiling of roots (Vitis spp.) under grape phylloxera (D. vitifoliae Fitch) attack. *Plant Physiology and Biochemistry*, **2019**, 135, 174-181	5.4	9
31	The ripening disorder berry shrivel affects anthocyanin biosynthesis and sugar metabolism in Zweigelt grape berries. *Planta*, **2018**, 247, 471-481	4.7	9
30	The Lipoxygenase Lox1 Is Involved in Light- and Injury-Response, Conidiation, and Volatile Organic Compound Biosynthesis in the Mycoparasitic Fungus. *Frontiers in Microbiology*, **2020**, 11, 2004	5.7	8
29	A constitutive active allele of the transcription factor Msn2 mimicking low PKA activity dictates metabolic remodeling in yeast. *Molecular Biology of the Cell*, **2018**, 29, 2848-2862	3.5	8
28	Metabolomics and Secondary Metabolite Profiling of Filamentous Fungi. *Fungal Biology*, **2015**, 81-101	2.3	7

27	Stable Isotope-Assisted Plant Metabolomics: Combination of Global and Tracer-Based Labeling for Enhanced Untargeted Profiling and Compound Annotation. *Frontiers in Plant Science*, **2019**, 10, 1366	6.2	7
26	Detection and Identification of Fungal Microbial Volatile Organic Compounds by HS-SPME-GC□MS **2013**, 455-465		7
25	In-vitro sulfation of piceatannol by human liver cytosol and recombinant sulfotransferases. *Journal of Pharmacy and Pharmacology*, **2009**, 61, 185-91	4.8	7
24	Biochemical Characterization of the Candidate ACC-Deaminases and Virulence Testing of Knockout Mutant Strains. *Frontiers in Plant Science*, **2019**, 10, 1072	6.2	6
23	Influence of Different Light Regimes on the Mycoparasitic Activity and 6-Pentyl-□pyrone Biosynthesis in Two Strains of. *Pathogens*, **2020**, 9,	4.5	6
22	Preparation of uniformly labelled C- and N-plants using customised growth chambers. *Plant Methods*, **2020**, 16, 46	5.8	6
21	Volatile-Mediated Inhibitory Activity of Rhizobacteria as a Result of Multiple Factors Interaction: The Case of AZ78. *Microorganisms*, **2020**, 8,	4.9	4
20	Evaluation of the long-term performance of water-analyzing laboratories. *Accreditation and Quality Assurance*, **2004**, 9, 82-89	0.7	4
19	Identification and Functional Characterization of the Gene Cluster Responsible for Fusaproliferin Biosynthesis in. *Toxins*, **2021**, 13,	4.9	4
18	MetMatch: A Semi-Automated Software Tool for the Comparison and Alignment of LC-HRMS Data from Different Metabolomics Experiments. *Metabolites*, **2016**, 6,	5.6	4
17	Partially C-labeled mouse tissue as reference for LC-MS based untargeted metabolomics. *Analytical Biochemistry*, **2018**, 556, 63-69	3.1	3
16	Volatiles from the Mandibular Gland Reservoir Content of Laciny and Zettel, 2018, Worker Ants (Hymenoptera: Formicidae). *Molecules*, **2019**, 24,	4.8	3
15	Simultaneous determination of type A-& B-trichothecenes and zearalenone in cereals by High Performance Liquid Chromatography - Tandem Mass Spectrometry. *Mycotoxin Research*, **2005**, 21, 237-40	4	3
14	Characterisation of the Antibiotic Profile of AZ78, an Effective Biological Control Agent of Plant Pathogenic Microorganisms. *Microorganisms*, **2021**, 9,	4.9	3
13	Biogenic volatile organic compounds in the grapevine response to pathogens, beneficial microorganisms, resistance inducers and abiotic factors. *Journal of Experimental Botany*, **2021**,	7	3
12	Enhanced Metabolome Coverage and Evaluation of Matrix Effects by the Use of Experimental-Condition-Matched C-Labeled Biological Samples in Isotope-Assisted LC-HRMS Metabolomics. *Metabolites*, **2020**, 10,	5.6	2
11	3rd International Symposium on Fusarium Head Blight, Session 3: Food Safety and Toxicology, Poster presentations. *Cereal Research Communications*, **2008**, 36, 337-411	1.1	2
10	Ecological Role of Volatile Organic Compounds Emitted by as Interspecies and Interkingdom Signals. *Microorganisms*, **2021**, 9,	4.9	2

9	Isolation of Mandibular Gland Reservoir Contents from Bornean Exploding Ants (Formicidae) for Volatilome Analysis by GC-MS and MetaboliteDetector. *Journal of Visualized Experiments*, **2018**,	1.6	2
8	Study of the Volatile Metabolome in Plant Insect Interactions **2013**, 125-153		1
7	First results of GEN-AU: Cloning of Deoxynivalenol- and Zearalenone-inactivating UDP-glucosyltransferase genes from Arabidopsis thaliana and expression in yeast for production of mycotoxin-glucosides. *Mycotoxin Research*, **2005**, 21, 108-11	4	1
6	3rd International Symposium on Fusarium Head Blight, Session 4: Pathogenesis and Plant Pathology, Poster presentations. *Cereal Research Communications*, **2008**, 36, 471-551	1.1	1
5	Elucidation of xenoestrogen metabolism by non-targeted, stable isotope-assisted mass spectrometry in breast cancer cells. *Environment International*, **2021**, 158, 106940	12.9	1
4	The TOR kinase pathway is relevant for nitrogen signaling and antagonism of the mycoparasite Trichoderma atroviride.. *PLoS ONE*, **2021**, 16, e0262180	3.7	1
3	A novel method combining stable isotopic labeling and high-resolution mass spectrometry to trace the quinone reaction products in wines.. *Food Chemistry*, **2022**, 383, 132448	8.5	0
2	Fungal Melanin Biosynthesis Pathway as Source for Fungal Toxins.. *MBio*, **2022**, e0021922	7.8	0
1	The Comprehensive and Reliable Detection of Secondary Metabolites in Trichoderma reesei: A Tool for the Discovery of Novel Substances. *Methods in Molecular Biology*, **2021**, 2234, 271-295	1.4	