Rainer Schuhmacher

List of Publications by Year
in descending order

155 papers	10,052 citations	28274 55 h-index	38395 95 g-index
162 all docs	162 docs citations	162 times ranked	7851 citing authors

#	Article	IF	Citations
1	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, 2649-2659.	1.5	615
2	Detoxification of the Fusarium Mycotoxin Deoxynivalenol by a UDP-glucosyltransferase from Arabidopsis thaliana. Journal of Biological Chemistry, 2003, 278, 47905-47914.	3.4	472
3	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, 1505-1523.	3.7	376
4	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, 1318-1324.	2.6	362
5	Masked Mycotoxins:Â Determination of a Deoxynivalenol Glucoside in Artificially and Naturally Contaminated Wheat by Liquid Chromatographyâˆ'Tandem Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2005, 53, 3421-3425.	5.2	346
6	Rapid simultaneous determination of major type A- and B-trichothecenes as well as zearalenone in maize by high performance liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2005, 1062, 209-216.	3.7	254
7	Identification and profiling of volatile metabolites of the biocontrol fungus Trichoderma atroviride by HS-SPME-GC-MS. Journal of Microbiological Methods, 2010, 81, 187-193.	1.6	236
8	Hydrolytic fate of deoxynivalenol-3-glucoside during digestion. Toxicology Letters, 2011, 206, 264-267.	0.8	216
9	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, 9352-9363.	5.2	204
10	Formation, determination and significance of masked and other conjugated mycotoxins. Analytical and Bioanalytical Chemistry, 2009, 395, 1243-1252.	3.7	192
11	Application of an LCâ€“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.	8.2	189
12	New insights into the human metabolism of the Fusarium mycotoxins deoxynivalenol and zearalenone. Toxicology Letters, 2013, 220, 88-94.	0.8	165
13	Occurrence of deoxynivalenol and its 3-<i>Î²</i>-D-glucoside in wheat and maize. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2009, 26, 507-511.	2.3	163
14	The G protein Î± subunit Tga1 of Trichoderma atroviride is involved in chitinase formation and differential production of antifungal metabolites. Fungal Genetics and Biology, 2005, 42, 749-760.	2.1	158
15	Liquid chromatography-mass spectrometry for the determination of chemical contaminants in food. TrAC - Trends in Analytical Chemistry, 2014, 59, 59-72.	11.4	154
16	Assessment of human deoxynivalenol exposure using an LCâ€“MS/MS based biomarker method. Toxicology Letters, 2012, 211, 85-90.	0.8	145
17	New tricks of an old enemy: isolates of <scp><i>F</i></scp><i>usarium graminearum</i> produce a type <scp>A</scp> trichothecene mycotoxin. Environmental Microbiology, 2015, 17, 2588-2600.	3.8	145
18	Signaling via the Trichoderma atroviride mitogen-activated protein kinase Tmk1 differentially affects mycoparasitism and plant protection. Fungal Genetics and Biology, 2007, 44, 1123-1133.	2.1	144

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19	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.	5.8	139
20	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, 5087-5104.	3.7	137
21	Chromatographic methods for the simultaneous determination of mycotoxins and their conjugates in cereals. International Journal of Food Microbiology, 2007, 119, 33-37.	4.7	131
22	Development and validation of a rapid multiâ€biomarker liquid chromatography/tandem mass spectrometry method to assess human exposure to mycotoxins. Rapid Communications in Mass Spectrometry, 2012, 26, 1533-1540.	1.5	121
23	GCâ€"MS based targeted metabolic profiling identifies changes in the wheat metabolome following deoxynivalenol treatment. Metabolomics, 2015, 11, 722-738.	3.0	117
24	Advanced LCâ€"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.	3.7	113
25	Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS. Analytical and Bioanalytical Chemistry, 2012, 402, 2675-2686.	3.7	112
26	Difficulties in fumonisin determination: the issue of hidden fumonisins. Analytical and Bioanalytical Chemistry, 2009, 395, 1335-1345.	3.7	107
27	Stable isotopic labelling-assisted untargeted metabolic profiling reveals novel conjugates of the mycotoxin deoxynivalenol in wheat. Analytical and Bioanalytical Chemistry, 2013, 405, 5031-5036.	3.7	102
28	Surfactin variants mediate speciesâ€specific biofilm formation and root colonization in <i>Bacillus</i>. Environmental Microbiology, 2016, 18, 2634-2645.	3.8	99
29	Liquid chromatography coupled to tandem mass spectrometry (LC-MS/MS) determination of phase II metabolites of the mycotoxin zearalenone in the model plantArabidopsis thaliana. Food Additives and Contaminants, 2006, 23, 1194-1200.	2.0	98
30	On the interâ€instrument and interâ€laboratory transferability of a tandem mass spectral reference library: 1. Results of an Austrian multicenter study. Journal of Mass Spectrometry, 2009, 44, 485-493.	1.6	96
31	Overexpression of the UGT73C6 alters brassinosteroid glucoside formation in Arabidopsis thaliana. BMC Plant Biology, 2011, 11, 51.	3.6	93
32	Biotransformation of the Mycotoxin Deoxynivalenol in Fusarium Resistant and Susceptible Near Isogenic Wheat Lines. PLoS ONE, 2015, 10, e0119656.	2.5	93
33	Cleavage of Zearalenone by <i>Trichosporon mycotoxinivorans</i> to a Novel Nonestrogenic Metabolite. Applied and Environmental Microbiology, 2010, 76, 2353-2359.	3.1	92
34	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 Chromatographyâˆ'Tandem Mass Spectrometry. Analytical Chemistry, 2006, 78, 5884-5892.	6.5	90
35	On the interâ€instrument and the interâ€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.	1.6	90
36	Application of a liquid chromatographyâ€"tandem mass spectrometric method to multi-mycotoxin determination in raw cereals and evaluation of matrix effects. Food Additives and Contaminants, 2007, 24, 1184-1195.	2.0	88

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37	Isotopic labeling-assisted metabolomics using LCâ€“MS. Analytical and Bioanalytical Chemistry, 2013, 405, 27-33.	3.7	87
38	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.	7.1	86
39	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 chromatographyâ€“electrospray ionisation-tandem mass spectrometry. Journal of Chromatography A, 2008, 1191, 171-181.	3.7	85
40	A novel stable isotope labelling assisted workflow for improved untargeted LCâ€“HRMS based metabolomics research. Metabolomics, 2014, 10, 754-769.	3.0	84
41	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.	2.1	81
42	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.	3.1	81
43	MetExtract II: A Software Suite for Stable Isotope-Assisted Untargeted Metabolomics. Analytical Chemistry, 2017, 89, 9518-9526.	6.5	80
44	Metabolism of the Fusarium Mycotoxins T-2 Toxin and HT-2 Toxin in Wheat. Journal of Agricultural and Food Chemistry, 2015, 63, 7862-7872.	5.2	78
45	Toxigenicity and pathogenicity of Fusarium poae and Fusarium avenaceum on wheat. European Journal of Plant Pathology, 2008, 122, 265-276.	1.7	76
46	Heterologous Expression of Arabidopsis UDP-Glucosyltransferases in Saccharomyces cerevisiae for Production of Zearalenone-4-O-Glucoside. Applied and Environmental Microbiology, 2006, 72, 4404-4410.	3.1	74
47	The Comprehensive Peptaibiotics Database. Chemistry and Biodiversity, 2013, 10, 734-743.	2.1	74
48	Methanol Generates Numerous Artifacts during Sample Extraction and Storage of Extracts in Metabolomics Research. Metabolites, 2018, 8, 1.	2.9	73
49	MetExtract: a new software tool for the automated comprehensive extraction of metabolite-derived LC/MS signals in metabolomics research. Bioinformatics, 2012, 28, 736-738.	4.1	68
50	Deoxynivalenol-sulfates: identification and quantification of novel conjugated (masked) mycotoxins in wheat. Analytical and Bioanalytical Chemistry, 2015, 407, 1033-1039.	3.7	68
51	Stable Isotope-Assisted Evaluation of Different Extraction Solvents for Untargeted Metabolomics of Plants. International Journal of Molecular Sciences, 2016, 17, 1017.	4.1	64
52	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, 692-696.	3.7	63
53	The volatile metabolome of grapevine roots: First insights into the metabolic response upon phylloxera attack. Plant Physiology and Biochemistry, 2011, 49, 1059-1063.	5.8	61
54	Effect of fungal strain and cereal substrate on<i>in vitro</i>mycotoxin production by<i>Fusarium poae</i>and<i>Fusarium avenaceum</i>. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2008, 25, 745-757.	2.3	59

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55	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.	3.7	57
56	The Peptaibiotics Database â€“ A Comprehensive Online Resource. Chemistry and Biodiversity, 2015, 12, 743-751.	2.1	57
57	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, 8019-8033.	3.7	56
58	Untargeted Profiling of Tracer-Derived Metabolites Using Stable Isotopic Labeling and Fast Polarity-Switching LCâ€“ESI-HRMS. Analytical Chemistry, 2014, 86, 11533-11537.	6.5	52
59	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.	1.7	51
60	Comparison of Fusarium graminearum Transcriptomes on Living or Dead Wheat Differentiates Substrate-Responsive and Defense-Responsive Genes. Frontiers in Microbiology, 2016, 7, 1113.	3.5	48
61	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>. G3: Genes, Genomes, Genetics, 2015, 5, 2579-2592.	1.8	45
62	Interlaboratory comparison study for the determination of the Fusarium mycotoxins deoxynivalenol in wheat and zearalenone in maize using different methods. Fresenius' Journal of Analytical Chemistry, 1997, 359, 510-515.	1.5	44
63	Immuno-affinity columns versus conventional clean-up: a method-comparison study for the determination of zearalenone in corn. Fresenius' Journal of Analytical Chemistry, 1998, 360, 241-245.	1.5	43
64	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, 1105-1115.	3.7	43
65	YPR2 is a regulator of light modulated carbon and secondary metabolism in Trichoderma reesei. BMC Genomics, 2019, 20, 211.	2.8	43
66	<i>Trichoderma</i> spp. volatile organic compounds protect grapevine plants by activating defenseâ€related processes against downy mildew. Physiologia Plantarum, 2021, 172, 1950-1965.	5.2	42
67	Emission of volatile sesquiterpenes and monoterpenes in grapevine genotypes following <scp><i>Plasmopara viticola</i></scp> inoculation <i>in vitro</i>. Journal of Mass Spectrometry, 2015, 50, 1013-1022.	1.6	41
68	Novel analytical methods to study the fate of mycotoxins during thermal food processing. Analytical and Bioanalytical Chemistry, 2020, 412, 9-16.	3.7	41
69	Identification of a novel human deoxynivalenol metabolite enhancing proliferation of intestinal and urinary bladder cells. Scientific Reports, 2016, 6, 33854.	3.3	40
70	Determination of the Fusarium mycotoxin beauvericin at Î¼g/kg levels in corn by high-performance liquid chromatography with diode-array detection. Journal of Chromatography A, 1996, 746, 233-238.	3.7	38
71	Metabolomics and metabolite profiling. Analytical and Bioanalytical Chemistry, 2013, 405, 5003-5004.	3.7	38
72	Downy mildew symptoms on grapevines can be reduced by volatile organic compounds of resistant genotypes. Scientific Reports, 2018, 8, 1618.	3.3	38

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73	Cooccurrence of Mycotoxins in Maize and Poultry Feeds from Brazil by Liquid Chromatography/Tandem Mass Spectrometry. Scientific World Journal, The, 2013, 2013, 1-9.	2.1	37
74	Stable Isotope-Assisted Plant Metabolomics: Investigation of Phenylalanine-Related Metabolic Response in Wheat Upon Treatment With the Fusarium Virulence Factor Deoxynivalenol. Frontiers in Plant Science, 2019, 10, 1137.	3.6	35
75	Establishment and Application of a Metabolomics Workflow for Identification and Profiling of Volatiles from Leaves of <i>Vitis vinifera</i> by HSâ€SPMEâ€GCâ€MS. Phytochemical Analysis, 2012, 23, 345-358.	2.4	34
76	Characterization of (13C24) T-2 toxin and its use as an internal standard for the quantification of T-2 toxin in cereals with HPLCâ€“MS/MS. Analytical and Bioanalytical Chemistry, 2007, 389, 931-940.	3.7	33
77	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, 1457-1468.	2.3	32
78	Short review: Metabolism of theFusarium mycotoxins deoxynivalenol and zearalenone in plants. Mycotoxin Research, 2007, 23, 68-72.	2.3	31
79	Metabolism of HT-2 Toxin and T-2 Toxin in Oats. Toxins, 2016, 8, 364.	3.4	31
80	Volatile Organic Compounds From Lysobacter capsici AZ78 as Potential Candidates for Biological Control of Soilborne Plant Pathogens. Frontiers in Microbiology, 2020, 11, 1748.	3.5	31
81	Optimization, In-House Validation, and Application of a Liquid Chromatographyâ€"Tandem Mass Spectrometry (LCâ€"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, 10787-10794.	5.2	30
82	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, 3112-3126.	3.4	30
83	The Profile and Dynamics of RNA Modifications in Animals. ChemBioChem, 2017, 18, 979-984.	2.6	30
84	A reference-gene-based quantitative PCR method as a tool to determine Fusarium resistance in wheat. Analytical and Bioanalytical Chemistry, 2009, 395, 1385-1394.	3.7	29
85	Preparation and characterization of the conjugatedFusariummycotoxins zearalenone-4O-Î²-D-glucopyranoside, Î±-zearalenol-4O-Î²-D-glucopyranoside and Î²-zearalenol-4O-Î²-D-glucopyranoside by MS/MS and two-dimensional NMR. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2009, 26, 207-213.	2.3	28
86	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.	3.7	28
87	Glucuronidation of piceatannol by human liver microsomes: major role of UGT1A1, UGT1A8 and UGT1A10. Journal of Pharmacy and Pharmacology, 2010, 62, 47-54.	2.4	27
88	Glutathione-Conjugates of Deoxynivalenol in Naturally Contaminated Grain Are Primarily Linked via the Epoxide Group. Toxins, 2016, 8, 329.	3.4	26
89	The Lipoxygenase Lox1 Is Involved in Lightâ€•and Injury-Response, Conidiation, and Volatile Organic Compound Biosynthesis in the Mycoparasitic Fungus Trichoderma atroviride. Frontiers in Microbiology, 2020, 11, 2004.	3.5	26
90	Profiling of trichorzianines in culture samples of <i>Trichoderma atroviride</i> by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3963-3970.	1.5	25

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91	Stable Isotope-Assisted Metabolomics for Deciphering Xenobiotic Metabolism in Mammalian Cell Culture. ACS Chemical Biology, 2020, 15, 970-981.	3.4	25
92	Isolation and characterisation of enzymatic zearalenone hydrolysis reaction products. World Mycotoxin Journal, 2016, 9, 353-363.	1.4	24
93	Characterisation of the peptaibiome of the biocontrol fungus <i>Trichoderma atroviride</i> by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 1889-1898.	1.5	23
94	Tracing flavonoid degradation in grapes by MS filtering with stable isotopes. Food Chemistry, 2015, 166, 448-455.	8.2	23
95	Stable Isotopeâ€"Assisted Plant Metabolomics: Combination of Global and Tracer-Based Labeling for Enhanced Untargeted Profiling and Compound Annotation. Frontiers in Plant Science, 2019, 10, 1366.	3.6	23
96	Untargeted LCâ€"MS based 13C 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.	8.2	23
97	Accumulation of the Mycotoxin Beauvericin in Kernels of Corn Hybrids Inoculated withFusariumsubglutinans. Journal of Agricultural and Food Chemistry, 1996, 44, 3665-3667.	5.2	22
98	Processing and purity assessment of standards for the analysis of type-B trichothecene mycotoxins. Analytical and Bioanalytical Chemistry, 2005, 382, 1848-1858.	3.7	22
99	Evaluation of settled floor dust for the presence of microbial metabolites and volatile anthropogenic chemicals in indoor environments by LCâ€"MS/MS and GCâ€"MS methods. Talanta, 2011, 85, 2027-2038.	5.5	22
100	Automated LC-HRMS(/MS) Approach for the Annotation of Fragment Ions Derived from Stable Isotope Labeling-Assisted Untargeted Metabolomics. Analytical Chemistry, 2014, 86, 7320-7327.	6.5	22
101	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, 1107-1114.	2.0	21
102	Valproic Acid Induces Antimicrobial Compound Production in Doratomyces microspores. Frontiers in Microbiology, 2016, 7, 510.	3.5	21
103	DON-glycosides: Characterisation of synthesis products and screening for their occurrence in DON-treated wheat samples. Mycotoxin Research, 2005, 21, 123-127.	2.3	20
104	Isolation and Characterization of a New Less-Toxic Derivative of theFusariumMycotoxin Diacetoxyscirpenol after Thermal Treatment. Journal of Agricultural and Food Chemistry, 2011, 59, 9709-9714.	5.2	20
105	Studying the polyphenols of grapevine leaves according to age and insertion level under controlled conditions. Scientia Horticulturae, 2012, 141, 37-41.	3.6	20
106	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.	2.1	20
107	Characterization and application of isotope-substituted (13C15)-deoxynivalenol (DON) as an internal standard for the determination of DON. Food Additives and Contaminants, 2006, 23, 1187-1193.	2.0	19
108	Biogenic volatile organic compounds in the grapevine response to pathogens, beneficial microorganisms, resistance inducers, and abiotic factors. Journal of Experimental Botany, 2021, , .	4.8	19

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109	Effects of beauvericin to mammalian tissue and its production by Austrian isolates ofFusarium proliferatum and Fusarium subglutinans. Mycotoxin Research, 1997, 13, 11-16.	2.3	18
110	Synthesis of deoxynivalenol-glucosides and their characterization using a QTrap LC-MS/MS. Mycotoxin Research, 2003, 19, 47-50.	2.3	18
111	Interlaboratory comparison study for the determination of methyl tert -butyl ether in water. Analytical and Bioanalytical Chemistry, 2003, 377, 1140-1147.	3.7	18
112	A rapid and sensitive GCâ€“MS method for determination of 1,3-dichloro-2-propanol in water. Analytical and Bioanalytical Chemistry, 2005, 382, 366-371.	3.7	18
113	Recent developments in the application of liquid chromatographyâ€“tandem mass spectrometry for the determination of organic residues and contaminants. Analytical and Bioanalytical Chemistry, 2008, 390, 253-256.	3.7	18
114	Investigations on the ability of<i>Fhb1</i>to protect wheat against nivalenol and deoxynivalenol. Cereal Research Communications, 2008, 36, 429-435.	1.6	18
115	In-vitro sulfation of piceatannol by human liver cytosol and recombinant sulfotransferases. Journal of Pharmacy and Pharmacology, 2010, 61, 185-191.	2.4	18
116	Identification and Characterization of Carboxylesterases from Brachypodium distachyon Deacetylating Trichothecene Mycotoxins. Toxins, 2016, 8, 6.	3.4	17
117	Tracing oxidation reaction pathways in wine using 13C isotopolog patterns and a putative compound database. Analytica Chimica Acta, 2019, 1054, 74-83.	5.4	17
118	Fungal Melanin Biosynthesis Pathway as Source for Fungal Toxins. MBio, 2022, 13, e0021922.	4.1	17
119	Determination of measurement uncertainty for the determination of triazines in groundwater from validation data. Analyst, The, 2001, 126, 211-216.	3.5	16
120	QCScreen: a software tool for data quality control in LC-HRMS based metabolomics. BMC Bioinformatics, 2015, 16, 341.	2.6	16
121	Characterisation of the Antibiotic Profile of Lysobacter capsici AZ78, an Effective Biological Control Agent of Plant Pathogenic Microorganisms. Microorganisms, 2021, 9, 1320.	3.6	16
122	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.	1.5	15
123	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.	1.3	15
124	The ripening disorder berry shrivel affects anthocyanin biosynthesis and sugar metabolism in Zweigelt grape berries. Planta, 2018, 247, 471-481.	3.2	15
125	Influence of Different Light Regimes on the Mycoparasitic Activity and 6-Pentyl-Î±-pyrone Biosynthesis in Two Strains of Trichoderma atroviride. Pathogens, 2020, 9, 860.	2.8	15
126	A rapid method for the determination of the Fusarium mycotoxin beauvericin in maize. Fresenius' Journal of Analytical Chemistry, 1999, 363, 130-131.	1.5	14

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127	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, 183-189.	3.7	13
128	Mycotoxin testing: From Multi-toxin analysis to metabolomics. Mycotoxins, 2017, 67, 11-16.	0.2	13
129	Preparation of uniformly labelled 13C- and 15N-plants using customised growth chambers. Plant Methods, 2020, 16, 46.	4.3	13
130	MetMatch: A Semi-Automated Software Tool for the Comparison and Alignment of LC-HRMS Data from Different Metabolomics Experiments. Metabolites, 2016, 6, 39.	2.9	12
131	Polyphenolic profiling of roots (Vitis spp.) under grape phylloxera (D. vitifoliae Fitch) attack. Plant Physiology and Biochemistry, 2019, 135, 174-181.	5.8	12
132	Production of zearalenone-4-glucoside, a-zearalenol-4-glucoside and ÃŸ-zearalenol-4-glucoside. Mycotoxin Research, 2007, 23, 180-184.	2.3	10
133	Metabolomics and Secondary Metabolite Profiling of Filamentous Fungi. Fungal Biology, 2015, , 81-101.	0.6	9
134	Biochemical Characterization of the Fusarium graminearum Candidate ACC-Deaminases and Virulence Testing of Knockout Mutant Strains. Frontiers in Plant Science, 2019, 10, 1072.	3.6	9
135	Volatile-Mediated Inhibitory Activity of Rhizobacteria as a Result of Multiple Factors Interaction: The Case of Lysobacter capsici AZ78. Microorganisms, 2020, 8, 1761.	3.6	9
136	In-vitro sulfation of piceatannol by human liver cytosol and recombinant sulfotransferases. Journal of Pharmacy and Pharmacology, 2009, 61, 185-191.	2.4	9
137	Elucidation of xenoestrogen metabolism by non-targeted, stable isotope-assisted mass spectrometry in breast cancer cells. Environment International, 2022, 158, 106940.	10.0	9
138	Identification and Functional Characterization of the Gene Cluster Responsible for Fusaproliferin Biosynthesis in Fusarium proliferatum. Toxins, 2021, 13, 468.	3.4	8
139	Ecological Role of Volatile Organic Compounds Emitted by Pantoea agglomerans as Interspecies and Interkingdom Signals. Microorganisms, 2021, 9, 1186.	3.6	7
140	The TOR kinase pathway is relevant for nitrogen signaling and antagonism of the mycoparasite Trichoderma atroviride. PLoS ONE, 2021, 16, e0262180.	2.5	7
141	Partially 13C-labeled mouse tissue as reference for LC-MS based untargeted metabolomics. Analytical Biochemistry, 2018, 556, 63-69.	2.4	6
142	Volatiles from the Mandibular Gland Reservoir Content of Colobopsis explodens Laciny and Zettel, 2018, Worker Ants (Hymenoptera: Formicidae). Molecules, 2019, 24, 3468.	3.8	5
143	Luteapyrone, a Novel Æ´-Pyrone Isolated from the Filamentous Fungus Metapochonia lutea. Molecules, 2021, 26, 6589.	3.8	5
144	Evaluation of the long-term performance of water-analyzing laboratories. Accreditation and Quality Assurance, 2004, 9, 82-89.	0.8	4

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145	Enhanced Metabolome Coverage and Evaluation of Matrix Effects by the Use of Experimental-Condition-Matched 13C-Labeled Biological Samples in Isotope-Assisted LC-HRMS Metabolomics. Metabolites, 2020, 10, 434.	2.9	4
146	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.	8.2	4
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