

Lloyd W Sumner

List of Publications by Year in descending order

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154
papers

18,212
citations

15504

65
h-index

12946

131
g-index

162
all docs

162
docs citations

162
times ranked

21448
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposed minimum reporting standards for chemical analysis. <i>Metabolomics</i> , 2007, 3, 211-221.	3.0	3,589
2	Plant metabolomics: large-scale phytochemistry in the functional genomics era. <i>Phytochemistry</i> , 2003, 62, 817-836.	2.9	1,010
3	Potential of metabolomics as a functional genomics tool. <i>Trends in Plant Science</i> , 2004, 9, 418-425.	8.8	685
4	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. <i>Nature Methods</i> , 2021, 18, 747-756.	19.0	403
5	The metabolomics standards initiative (MSI). <i>Metabolomics</i> , 2007, 3, 175-178.	3.0	396
6	Mass Spectrometry Strategies in Metabolomics. <i>Journal of Biological Chemistry</i> , 2011, 286, 25435-25442.	3.4	396
7	Overexpression of WXP1, a putative <i>Medicago truncatula</i> AP2 domain-containing transcription factor gene, increases cuticular wax accumulation and enhances drought tolerance in transgenic alfalfa (<i>Medicago sativa</i>). <i>Plant Journal</i> , 2005, 42, 689-707.	5.7	388
8	GC-MS SPME profiling of rhizobacterial volatiles reveals prospective inducers of growth promotion and induced systemic resistance in plants. <i>Phytochemistry</i> , 2006, 67, 2262-2268.	2.9	349
9	Virus infection improves drought tolerance. <i>New Phytologist</i> , 2008, 180, 911-921.	7.3	348
10	Metabolic profiling of <i>Medicago truncatula</i> cell cultures reveals the effects of biotic and abiotic elicitors on metabolism. <i>Journal of Experimental Botany</i> , 2005, 56, 323-336.	4.8	347
11	The Metabolomics Standards Initiative. <i>Nature Biotechnology</i> , 2007, 25, 846-848.	17.5	328
12	A proposed framework for the description of plant metabolomics experiments and their results. <i>Nature Biotechnology</i> , 2004, 22, 1601-1606.	17.5	283
13	Legume Natural Products: Understanding and Manipulating Complex Pathways for Human and Animal Health. <i>Plant Physiology</i> , 2003, 131, 878-885.	4.8	269
14	Genomics-based selection and functional characterization of triterpene glycosyltransferases from the model legume <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2005, 41, 875-887.	5.7	262
15	MET-IDEA: A Data Extraction Tool for Mass Spectrometry-Based Metabolomics. <i>Analytical Chemistry</i> , 2006, 78, 4334-4341.	6.5	249
16	MATE2 Mediates Vacuolar Sequestration of Flavonoid Glycosides and Glycoside Malonates in <i>Medicago truncatula</i> . <i>Plant Cell</i> , 2011, 23, 1536-1555.	6.6	227
17	Mapping the Proteome of Barrel Medic (<i>Medicago truncatula</i>). <i>Plant Physiology</i> , 2003, 131, 1104-1123.	4.8	217
18	Metabolic profiling of saponins in <i>Medicago sativa</i> and <i>Medicago truncatula</i> using HPLC coupled to an electrospray ion-trap mass spectrometer. <i>Phytochemistry</i> , 2002, 59, 347-360.	2.9	211

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19	Metabolite identification: are you sure? And how do your peers gauge your confidence?. <i>Metabolomics</i> , 2014, 10, 350-353.	3.0	205
20	Modern plant metabolomics: advanced natural product gene discoveries, improved technologies, and future prospects. <i>Natural Product Reports</i> , 2015, 32, 212-229.	10.3	190
21	Metabolomics spectral formatting, alignment and conversion tools (MSFACTs). <i>Bioinformatics</i> , 2003, 19, 2283-2293.	4.1	187
22	<i>LAP5</i> and <i>LAP6</i> Encode Anther-Specific Proteins with Similarity to Chalcone Synthase Essential for Pollen Exine Development in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 153, 937-955.	4.8	187
23	Transcript and proteomic analysis of developing white lupin (<i>Lupinus albus</i> L.) roots. <i>BMC Plant Biology</i> , 2009, 9, 1.	3.6	182
24	Different mechanisms for phytoalexin induction by pathogen and wound signals in <i>Medicago truncatula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17909-17915.	7.1	180
25	Metabolomics Reveals Novel Pathways and Differential Mechanistic and Elicitor-Specific Responses in Phenylpropanoid and Isoflavonoid Biosynthesis in <i>Medicago truncatula</i> Cell Cultures. <i>Plant Physiology</i> , 2008, 146, 323-324.	4.8	179
26	Methyl jasmonate and yeast elicitor induce differential transcriptional and metabolic re-programming in cell suspension cultures of the model legume <i>Medicago truncatula</i> . <i>Planta</i> , 2005, 220, 696-707.	3.2	175
27	Antifungal Activity of Citrus Essential Oils. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 3011-3033.	5.2	174
28	Current and emerging mass-spectrometry technologies for metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 238-250.	11.4	171
29	Genomic and Coexpression Analyses Predict Multiple Genes Involved in Triterpene Saponin Biosynthesis in <i>Medicago truncatula</i> . <i>Plant Cell</i> , 2010, 22, 850-866.	6.6	168
30	Heterologous expression of two <i>Medicago truncatula</i> putative ERF transcription factor genes, <i>WXP1</i> and <i>WXP2</i> , in <i>Arabidopsis</i> led to increased leaf wax accumulation and improved drought tolerance, but differential response in freezing tolerance. <i>Plant Molecular Biology</i> , 2007, 64, 265-278.	3.9	162
31	Altered Profile of Secondary Metabolites in the Root Exudates of <i>Arabidopsis</i> ATP-Binding Cassette Transporter Mutants. <i>Plant Physiology</i> , 2008, 146, 323-324.	4.8	158
32	Citrus fruit bitter flavors: isolation and functional characterization of the gene <i>Cm1,2RhaT</i> encoding a 1,2 rhamnosyltransferase, a key enzyme in the biosynthesis of the bitter flavonoids of citrus. <i>Plant Journal</i> , 2004, 40, 88-100.	5.7	152
33	Metabolic profiling and systematic identification of flavonoids and isoflavonoids in roots and cell suspension cultures of <i>Medicago truncatula</i> using HPLC-ESI-MS and GC-MS. <i>Phytochemistry</i> , 2007, 68, 342-354.	2.9	144
34	Root-Microbe Communication through Protein Secretion. <i>Journal of Biological Chemistry</i> , 2008, 283, 25247-25255.	3.4	144
35	Global reprogramming of transcription and metabolism in <i>Medicago truncatula</i> during progressive drought and after rewatering. <i>Plant, Cell and Environment</i> , 2014, 37, 2553-2576.	5.7	138
36	A WD40 Repeat Protein from <i>Medicago truncatula</i> Is Necessary for Tissue-Specific Anthocyanin and Proanthocyanidin Biosynthesis But Not for Trichome Development. <i>Plant Physiology</i> , 2009, 151, 1114-1129.	4.8	137

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37	<i>STENOFOLIA</i> Regulates Blade Outgrowth and Leaf Vascular Patterning in <i>Medicago truncatula</i> and <i>Nicotiana sylvestris</i> . <i>Plant Cell</i> , 2011, 23, 2125-2142.	6.6	133
38	Regiospecific hydroxylation of isoflavones by cytochrome P450 81E enzymes from <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2003, 36, 471-484.	5.7	132
39	Soybean Metabolites Regulated in Root Hairs in Response to the Symbiotic Bacterium <i>Bradyrhizobium japonicum</i> . <i>Plant Physiology</i> , 2010, 153, 1808-1822.	4.8	132
40	Functional Characterization of Proanthocyanidin Pathway Enzymes from Tea and Their Application for Metabolic Engineering. <i>Plant Physiology</i> , 2013, 161, 1103-1116.	4.8	130
41	A Large-Scale Genetic Screen in <i>Arabidopsis</i> to Identify Genes Involved in Pollen Exine Production. <i>Plant Physiology</i> , 2011, 157, 947-970.	4.8	120
42	Minimum reporting standards for plant biology context information in metabolomic studies. <i>Metabolomics</i> , 2007, 3, 195-201.	3.0	116
43	Proteomics of <i>Medicago sativa</i> cell walls. <i>Phytochemistry</i> , 2004, 65, 1709-1720.	2.9	113
44	A Two-dimensional Electrophoresis Proteomic Reference Map and Systematic Identification of 1367 Proteins from a Cell Suspension Culture of the Model Legume <i>Medicago truncatula</i> . <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1812-1825.	3.8	108
45	Quantification of Saponins in Aerial and Subterranean Tissues of <i>Medicago truncatula</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 1914-1920.	5.2	108
46	Plant neighbor identity influences plant biochemistry and physiology related to defense. <i>BMC Plant Biology</i> , 2010, 10, 115.	3.6	107
47	Root Secretion of Defense-related Proteins Is Development-dependent and Correlated with Flowering Time. <i>Journal of Biological Chemistry</i> , 2010, 285, 30654-30665.	3.4	103
48	Establishing Reporting Standards for Metabolomic and Metabonomic Studies: A Call for Participation. <i>OMICS A Journal of Integrative Biology</i> , 2006, 10, 158-163.	2.0	100
49	TrichOME: A Comparative Omics Database for Plant Trichomes. <i>Plant Physiology</i> , 2009, 152, 44-54.	4.8	98
50	Expression of a bacterial feedback-insensitive 3-deoxy- <i>D</i> -arabinoheptulosonate 7-phosphate synthase of the shikimate pathway in <i>Arabidopsis</i> elucidates potential metabolic bottlenecks between primary and secondary metabolism. <i>New Phytologist</i> , 2012, 194, 430-439.	7.3	98
51	PlantMetabolomics.org: A Web Portal for Plant Metabolomics Experiments. <i>Plant Physiology</i> , 2010, 152, 1807-1816.	4.8	93
52	The molecular and enzymatic basis of bitter/non-bitter flavor of citrus fruit: evolution of branch-forming rhamnosyltransferases under domestication. <i>Plant Journal</i> , 2013, 73, 166-178.	5.7	92
53	Bisphenol A and bisphenol S disruptions of the mouse placenta and potential effects on the placenta-brain axis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4642-4652.	7.1	92
54	Proposed quantitative and alphanumeric metabolite identification metrics. <i>Metabolomics</i> , 2014, 10, 1047-1049.	3.0	91

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55	Biomarker metabolites capturing the metabolite variance present in a rice plant developmental period. <i>BMC Plant Biology</i> , 2005, 5, 8.	3.6	90
56	MedicCyc: a biochemical pathway database for <i>Medicago truncatula</i> . <i>Bioinformatics</i> , 2007, 23, 1418-1423.	4.1	89
57	Jasmonate-mediated stomatal closure under elevated CO_2 revealed by time-resolved metabolomics. <i>Plant Journal</i> , 2016, 88, 947-962.	5.7	87
58	Integrated Metabolomics and Transcriptomics Reveal Enhanced Specialized Metabolism in <i>Medicago truncatula</i> Root Border Cells. <i>Plant Physiology</i> , 2015, 167, 1699-1716.	4.8	84
59	Influence of Host Chloroplast Proteins on Tobacco mosaic virus Accumulation and Intercellular Movement. <i>Plant Physiology</i> , 2012, 161, 134-147.	4.8	83
60	Metabolomics as a Hypothesis-Generating Functional Genomics Tool for the Annotation of <i>Arabidopsis thaliana</i> Genes of Unknown Function. <i>Frontiers in Plant Science</i> , 2012, 3, 15.	3.6	82
61	Analytical and biological variances associated with proteomic studies of <i>Medicago truncatula</i> by two-dimensional polyacrylamide gel electrophoresis. <i>Proteomics</i> , 2002, 2, 960.	2.2	81
62	Characterization of an Isoflavonoid-Specific Prenyltransferase from <i>Lupinus albus</i> . <i>Plant Physiology</i> , 2012, 159, 70-80.	4.8	73
63	Profiling phenolic metabolites in transgenic alfalfa modified in lignin biosynthesis. <i>Phytochemistry</i> , 2003, 64, 1013-1021.	2.9	68
64	Amino acid profiling in plant cell cultures: An inter-laboratory comparison of CE-MS and GC-MS. <i>Electrophoresis</i> , 2007, 28, 1371-1379.	2.4	66
65	Characterization of the Formation of Branched Short-Chain Fatty Acid:CoAs for Bitter Acid Biosynthesis in Hop Glandular Trichomes. <i>Molecular Plant</i> , 2013, 6, 1301-1317.	8.3	64
66	The Time Is Right to Focus on Model Organism Metabolomes. <i>Metabolites</i> , 2016, 6, 8.	2.9	63
67	Functional analysis of members of the isoflavone and isoflavanone O-methyltransferase enzyme families from the model legume <i>Medicago truncatula</i> . <i>Plant Molecular Biology</i> , 2006, 62, 715-733.	3.9	61
68	LAP3, a novel plant protein required for pollen development, is essential for proper exine formation. <i>Sexual Plant Reproduction</i> , 2009, 22, 167-177.	2.2	60
69	Template Effect for O ₂ Addition across cis-Sulfur Sites in Nickel Dithiolates. <i>Journal of the American Chemical Society</i> , 1996, 118, 1791-1792.	13.7	57
70	Integrated Metabolite and Transcript Profiling Identify a Biosynthetic Mechanism for Hispidol in <i>Medicago truncatula</i> Cell Cultures. <i>Plant Physiology</i> , 2009, 151, 1096-1113.	4.8	56
71	Patterns of Metabolite Changes Identified from Large-Scale Gene Perturbations in <i>Arabidopsis</i> Using a Genome-Scale Metabolic Network. <i>Plant Physiology</i> , 2015, 167, 1685-1698.	4.8	55
72	PlantMAT: A Metabolomics Tool for Predicting the Specialized Metabolic Potential of a System and for Large-Scale Metabolite Identifications. <i>Analytical Chemistry</i> , 2016, 88, 11373-11383.	6.5	55

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73	The Polyglutamate Synthetase Plastidial Isoform Is Required for Postembryonic Root Development in Arabidopsis. <i>Plant Physiology</i> , 2011, 155, 1237-1251.	4.8	54
74	MET-COFEA: A Liquid Chromatography/Mass Spectrometry Data Processing Platform for Metabolite Compound Feature Extraction and Annotation. <i>Analytical Chemistry</i> , 2014, 86, 6245-6253.	6.5	54
75	Root Secreted Metabolites and Proteins Are Involved in the Early Events of Plant-Plant Recognition Prior to Competition. <i>PLoS ONE</i> , 2012, 7, e46640.	2.5	54
76	High-performance Liquid Chromatography/Continuous-flow Liquid Secondary Ion Mass Spectrometry of Flavonoid Glycosides in Leguminous Plant Extracts. <i>Journal of Chromatography A</i> , 1996, 31, 472-485.		53
77	Generation of a Collision Cross Section Library for Multi-Dimensional Plant Metabolomics Using UHPLC-Trapped Ion Mobility-MS/MS. <i>Metabolites</i> , 2020, 10, 13.	2.9	52
78	Retention projection enables accurate calculation of liquid chromatographic retention times across labs and methods. <i>Journal of Chromatography A</i> , 2015, 1412, 43-51.	3.7	47
79	Suppression of Phospholipase D β s Confers Increased Aluminum Resistance in Arabidopsis thaliana. <i>PLoS ONE</i> , 2011, 6, e28086.	2.5	45
80	Sublethal Levels of Electric Current Elicit the Biosynthesis of Plant Secondary Metabolites. <i>Biotechnology Progress</i> , 2008, 24, 377-384.	2.6	42
81	Metabolite profiles of essential oils in citrus peels and their taxonomic implications. <i>Metabolomics</i> , 2015, 11, 952-963.	3.0	41
82	Construction of an Ultrahigh Pressure Liquid Chromatography-Tandem Mass Spectral Library of Plant Natural Products and Comparative Spectral Analyses. <i>Analytical Chemistry</i> , 2015, 87, 7373-7381.	6.5	41
83	Metabolic Engineering of Plant Cells for Biotransformation of Hesperedin into Neohesperidin, a Substrate for Production of the Low-Calorie Sweetener and Flavor Enhancer NHDC. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 9708-9712.	5.2	39
84	Medicago glucosyltransferase UGT72L1: potential roles in proanthocyanidin biosynthesis. <i>Planta</i> , 2013, 238, 139-154.	3.2	39
85	Abatement of 2,4-D by H ₂ O ₂ solar photolysis and solar photo-Fenton-like process with minute Fe(III) concentrations. <i>Water Research</i> , 2018, 144, 572-580.	11.3	39
86	NP-MRD: the Natural Products Magnetic Resonance Database. <i>Nucleic Acids Research</i> , 2022, 50, D665-D677.	14.5	39
87	Pentacoordinate (1/4-Oxo)diiron(III) Thiolate Complexes and Dimeric Iron(II) Precursors. <i>Inorganic Chemistry</i> , 1998, 37, 4086-4093.	4.0	37
88	Nonflowering Plants Possess a Unique Folate-Dependent Phenylalanine Hydroxylase That Is Localized in Chloroplasts. <i>Plant Cell</i> , 2010, 22, 3410-3422.	6.6	37
89	12-Hydroxy-Jasmonoyl-Isoleucine Is an Active Jasmonate That Signals through CORONATINE INSENSITIVE 1 and Contributes to the Wound Response in Arabidopsis. <i>Plant and Cell Physiology</i> , 2019, 60, 2152-2166.	3.1	35
90	Apoplastic Extracts from a Transgenic Wheat Line Exhibiting Lesion-Mimic Phenotype Have Multiple Pathogenesis-Related Proteins That Are Antifungal. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 1306-1317.	2.6	33

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91	Metabolomics Data Analysis, Visualization, and Integration. , 2005, 406, 409-436.		33
92	Citrate is a major component of snake venoms. Toxicon, 1992, 30, 461-464.	1.6	32
93	Methyl Jasmonate Induces ATP Biosynthesis Deficiency and Accumulation of Proteins Related to Secondary Metabolism in <i>Catharanthus roseus</i> (L.) G. Hairy Roots. Plant and Cell Physiology, 2011, 52, 1401-1421.	3.1	32
94	MET-XAlign: A Metabolite Cross-Alignment Tool for LC/MS-Based Comparative Metabolomics. Analytical Chemistry, 2015, 87, 9114-9119.	6.5	32
95	Silver stain removal using H ₂ O ₂ for enhanced peptide mass mapping by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 160-168.	1.5	31
96	Identification and quantification of phytosterols in black walnut kernels. Journal of Food Composition and Analysis, 2019, 75, 61-69.	3.9	31
97	MetExpert: An expert system to enhance gas chromatography-mass spectrometry-based metabolite identifications. Analytica Chimica Acta, 2018, 1037, 316-326.	5.4	30
98	A legume specific protein database (LegProt) improves the number of identified peptides, confidence scores and overall protein identification success rates for legume proteomics. Phytochemistry, 2011, 72, 1020-1027.	2.9	29
99	Sub-cellular proteomics of <i>Medicago truncatula</i> . Frontiers in Plant Science, 2013, 4, 112.	3.6	29
100	Identifying Antibacterial Compounds in Black Walnuts (<i>Juglans nigra</i>) Using a Metabolomics Approach. Metabolites, 2018, 8, 58.	2.9	29
101	Over-expression of cinnamate 4-hydroxylase leads to increased accumulation of acetosyringone in elicited tobacco cell-suspension cultures. Planta, 2002, 214, 902-910.	3.2	28
102	MET-IDEA version 2.06; improved efficiency and additional functions for mass spectrometry-based metabolomics data processing. Metabolomics, 2012, 8, 105-110.	3.0	28
103	Suppression of plant defense responses by extracellular metabolites from <i>Pseudomonas syringae</i> pv. <i>tabaci</i> in <i>Nicotiana benthamiana</i> . BMC Plant Biology, 2013, 13, 65.	3.6	28
104	Loss of function of folic polyglutamate synthetase 1 reduces lignin content and improves cell wall digestibility in <i>Arabidopsis</i> . Biotechnology for Biofuels, 2015, 8, 224.	6.2	27
105	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. Plant Physiology, 2019, 181, 63-84.	4.8	27
106	Integrated metabolomics identifies CYP72A67 and CYP72A68 oxidases in the biosynthesis of <i>Medicago truncatula</i> oleanate sapogenins. Metabolomics, 2019, 15, 85.	3.0	26
107	UHPLC-QTOF-MS/MS-SPE-NMR: A Solution to the Metabolomics Grand Challenge of Higher-Throughput, Confident Metabolite Identifications. Methods in Molecular Biology, 2019, 2037, 113-133.	0.9	24
108	Developmental exposure of California mice to endocrine disrupting chemicals and potential effects on the microbiome-gut-brain axis at adulthood. Scientific Reports, 2020, 10, 10902.	3.3	23

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109	Improvement of drought tolerance in white clover (<i>Trifolium repens</i>) by transgenic expression of a transcription factor gene WXP1. <i>Functional Plant Biology</i> , 2010, 37, 157.	2.1	21
110	Early genistein exposure of California mice and effects on the gut microbiota-brain axis. <i>Journal of Endocrinology</i> , 2019, 242, 139-157.	2.6	21
111	Retention Projection Enables Reliable Use of Shared Gas Chromatographic Retention Data Across Laboratories, Instruments, and Methods. <i>Analytical Chemistry</i> , 2013, 85, 11650-11657.	6.5	19
112	Soy-Induced Fecal Metabolome Changes in Ovariectomized and Intact Female Rats: Relationship with Cardiometabolic Health. <i>Scientific Reports</i> , 2018, 8, 16896.	3.3	19
113	Pathway-specific metabolome analysis with ¹⁸ O ₂ -labeled <i>Medicago truncatula</i> via a mass spectrometry-based approach. <i>Metabolomics</i> , 2018, 14, 71.	3.0	19
114	UHPLC-MS Analyses of Plant Flavonoids. <i>Current Protocols in Plant Biology</i> , 2019, 4, e20085.	2.8	18
115	<i>Medicago truncatula</i> Oleanolic-Derived Saponins Are Correlated with Caterpillar Deterrence. <i>Journal of Chemical Ecology</i> , 2017, 43, 712-724.	1.8	16
116	Identification and Quantification of Bioactive Molecules Inhibiting Pro-inflammatory Cytokine Production in Spent Coffee Grounds Using Metabolomics Analyses. <i>Frontiers in Pharmacology</i> , 2020, 11, 229.	3.5	16
117	Large-Scale Profiling of Saponins in Different Ecotypes of <i>Medicago truncatula</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 850.	3.6	15
118	Proteomic and Metabolomic Analysis of <i>Azospirillum brasilense</i> <i>ntrC</i> Mutant under High and Low Nitrogen Conditions. <i>Journal of Proteome Research</i> , 2020, 19, 92-105.	3.7	14
119	Efficient and Sensitive Method for Quantitative Analysis of Alkaloids in Hardinggrass (<i>Phalaris</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 107	3.2	12
120	Comparative Proteomics of Yeast-Elicited <i>Medicago truncatula</i> Cell Suspensions Reveals Induction of Isoflavonoid Biosynthesis and Cell Wall Modifications. <i>Journal of Proteome Research</i> , 2010, 9, 6220-6231.	3.7	12
121	Malonylation of Glucosylated N-Lauroylethanolamine A NEW PATHWAY THAT DETERMINES N-ACYLETHANOLAMINE METABOLIC FATE IN PLANTS. <i>Journal of Biological Chemistry</i> , 2016, 291, 27112-27121.	3.4	12
122	Black Walnut (<i>Juglans nigra</i>) Extracts Inhibit Proinflammatory Cytokine Production From Lipopolysaccharide-Stimulated Human Promonocytic Cell Line U-937. <i>Frontiers in Pharmacology</i> , 2019, 10, 1059.	3.5	12
123	Recent advances in plant metabolomics and greener pastures. <i>F1000 Biology Reports</i> , 2010, 2, .	4.0	12
124	Chapter Three Metabolomics: A developing and integral component in functional genomic studies of <i>medicago truncatula</i> . <i>Recent Advances in Phytochemistry</i> , 2002, , 31-61.	0.5	11
125	Seminal fluid metabolome and epididymal changes after antibiotic treatment in mice. <i>Reproduction</i> , 2018, 156, 1-10.	2.6	11
126	Integration of genomics, metagenomics, and metabolomics to identify interplay between susceptibility alleles and microbiota in adenoma initiation. <i>BMC Cancer</i> , 2020, 20, 600.	2.6	11

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127	Allelopathic Potential of Rice and Identification of Published Allelochemicals by Cloud-Based Metabolomics Platform. <i>Metabolites</i> , 2020, 10, 244.	2.9	9
128	Recent Developments Toward Integrated Metabolomics Technologies (UHPLC-MS-SPE-NMR and) <i>Trends in Analytical Chemistry</i> , 2021, 10, 101507.	3.5	9
129	Switchgrass Metabolomics Reveals Striking Genotypic and Developmental Differences in Specialized Metabolic Phenotypes. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 8010-8023.	5.2	9
130	Metabolomics across the globe. <i>Metabolomics</i> , 2013, 9, 258-264.	3.0	8
131	Metabolomics of Two Pecan Varieties Provides Insights into Scab Resistance. <i>Metabolites</i> , 2018, 8, 56.	2.9	8
132	Identification of health-promoting bioactive phenolics in black walnut using cloud-based metabolomics platform. <i>Journal of Food Measurement and Characterization</i> , 2020, 14, 770-777.	3.2	8
133	CASMI 2014: Challenges, Solutions and Results. <i>Current Metabolomics</i> , 2017, 5, 5-17.	0.5	8
134	An Optimized SPME-GC-MS Method for Volatile Metabolite Profiling of Different Alfalfa (<i>Medicago truncatula</i>) <i>Trends in Analytical Chemistry</i> , 2021, 10, 101507.	3.8	8
135	Methods, applications and concepts of metabolite profiling: Secondary metabolism. <i>Journal of Chromatography B</i> , 2007, 97, 195-212.		7
136	Role of cytosolic, tyrosine-insensitive prephenate dehydrogenase in <i>Medicago truncatula</i> . <i>Plant Direct</i> , 2020, 4, e00218.	1.9	7
137	Identification and quantification of bioactive compounds suppressing SARS-CoV-2 signals in wastewater-based epidemiology surveillance. <i>Water Research</i> , 2022, 221, 118824.	11.3	7
138	Determination of cinnamic acid and 4-coumaric acid in alfalfa (<i>Medicago sativa</i> L.) cell suspension cultures by gas chromatography. <i>Phytochemical Analysis</i> , 1993, 4, 124-130.	2.4	6
139	Characterization of Proteins Utilized in the Desulfurization of Petroleum Products by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Biochemistry</i> , 1998, 260, 117-127.	2.4	6
140	Proteome analysis of <i>Pithecellobium dulce</i> seeds using two-dimensional gel electrophoresis and tandem mass spectrometry. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 1284-1291.	3.5	4
141	A <i>Medicago truncatula</i> Metabolite Atlas Enables the Visualization of Differential Accumulation of Metabolites in Root Tissues. <i>Metabolites</i> , 2021, 11, 238.	2.9	4
142	Bridging the Gap between Analytical and Microbial Sciences in Microbiome Research. <i>MSystems</i> , 2021, 6, e0058521.	3.8	4
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