

# Thomas Moritz

## List of Publications by Year in descending order

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111  
papers

9,767  
citations

53751

45  
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37183

96  
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113  
all docs

113  
docs citations

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times ranked

12218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colonic Lactulose Fermentation Has No Impact on Glucagon-like Peptide-1 and Peptide-YY Secretion in Healthy Young Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, 77-87.	1.8	6
2	Multimomics and digital monitoring during lifestyle changes reveal independent dimensions of human biology and health. <i>Cell Systems</i> , 2022, 13, 241-255.e7.	2.9	8
3	Mixed-mode chromatography-mass spectrometry enables targeted and untargeted screening of carboxylic acids in biological samples. <i>Analytical Methods</i> , 2022, 14, 1015-1022.	1.3	1
4	Intravenous nicotinamide riboside elevates mouse skeletal muscle NAD <sup>+</sup> without impacting respiratory capacity or insulin sensitivity. <i>IScience</i> , 2022, 25, 103863.	1.9	12
5	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	7.2	86
6	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. <i>Molecular Metabolism</i> , 2022, 57, 101440.	3.0	25
7	Loss of Sucrase-Isomaltase Function Increases Acetate Levels and Improves Metabolic Health in Greenlandic Cohorts. <i>Gastroenterology</i> , 2022, 162, 1171-1182.e3.	0.6	9
8	Impaired phosphocreatine metabolism in white adipocytes promotes inflammation. <i>Nature Metabolism</i> , 2022, 4, 190-202.	5.1	21
9	Sucrose synthase activity is not required for cellulose biosynthesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2022, 110, 1493-1497.	2.8	9
10	Metabolic control of arginine and ornithine levels paces the progression of leaf senescence. <i>Plant Physiology</i> , 2022, 189, 1943-1960.	2.3	15
11	Overexpression of vesicle-associated membrane protein PttVAP27-17 as a tool to improve biomass production and the overall saccharification yields in <i>Populus</i> trees. <i>Biotechnology for Biofuels</i> , 2021, 14, 43.	6.2	10
12	Branched-chain amino acid metabolism is regulated by ERR $\alpha$ in primary human myotubes and is further impaired by glucose loading in type 2 diabetes. <i>Diabetologia</i> , 2021, 64, 2077-2091.	2.9	20
13	A metabolomic study of <i>Gomphrena agrestis</i> in Brazilian Cerrado suggests drought-adaptive strategies on metabolism. <i>Scientific Reports</i> , 2021, 11, 12933.	1.6	0
14	Ecological Adaptation and Succession of Human Fecal Microbial Communities in an Automated <i>In Vitro</i> Fermentation System. <i>MSystems</i> , 2021, 6, e0023221.	1.7	5
15	Metabolic Profiling and Compound-Class Identification Reveal Alterations in Serum Triglyceride Levels in Mice Immunized with Human Vaccine Adjuvant Alum. <i>Journal of Proteome Research</i> , 2020, 19, 269-278.	1.8	5
16	Changes in lipid and carotenoid metabolism in <i>Chlamydomonas reinhardtii</i> during induction of CO <sub>2</sub> -concentrating mechanism: Cellular response to low CO <sub>2</sub> stress. <i>Algal Research</i> , 2020, 52, 102099.	2.4	9
17	Differentiation of two <i>Maytenus</i> species and their hybrid via untargeted metabolomics. <i>Industrial Crops and Products</i> , 2020, 158, 113014.	2.5	3
18	Integration of molecular profiles in a longitudinal wellness profiling cohort. <i>Nature Communications</i> , 2020, 11, 4487.	5.8	66

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19	A metabolite roadmap of the wood-forming tissue in <i>Populus tremula</i> . <i>New Phytologist</i> , 2020, 228, 1559-1572.	3.5	32
20	Plasma Metabolome Profiling of Resistance Exercise and Endurance Exercise in Humans. <i>Cell Reports</i> , 2020, 33, 108554.	2.9	74
21	Leaf metabolic signatures induced by real and simulated herbivory in black mustard ( <i>Brassica nigra</i> ). <i>Metabolomics</i> , 2019, 15, 130.	1.4	29
22	Lipidomics in Ulcerative Colitis Reveal Alteration in Mucosal Lipid Composition Associated With the Disease State. <i>Inflammatory Bowel Diseases</i> , 2019, 25, 1780-1787.	0.9	51
23	Heterologous phosphoketolase expression redirects flux towards acetate, perturbs sugar phosphate pools and increases respiratory demand in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2019, 18, 25.	1.9	27
24	PECTIN ACETYLESTERASE9 Affects the Transcriptome and Metabolome and Delays Aphid Feeding. <i>Plant Physiology</i> , 2019, 181, 1704-1720.	2.3	27
25	Targeted Multiple Reaction Monitoring Analysis of CSF Identifies UCHL1 and GPNMB as Candidate Biomarkers for ALS. <i>Journal of Molecular Neuroscience</i> , 2019, 69, 643-657.	1.1	27
26	Mucosal Metabolomic Profiling and Pathway Analysis Reveal the Metabolic Signature of Ulcerative Colitis. <i>Metabolites</i> , 2019, 9, 291.	1.3	25
27	Two-step derivatization for determination of sugar phosphates in plants by combined reversed phase chromatography/tandem mass spectrometry. <i>Plant Methods</i> , 2019, 15, 127.	1.9	22
28	A Quantitative Analysis of Colonic Mucosal Oxylipins and Endocannabinoids in Treatment-Naïve and Deep Remission Ulcerative Colitis Patients and the Potential Link With Cytokine Gene Expression. <i>Inflammatory Bowel Diseases</i> , 2019, 25, 490-497.	0.9	29
29	A multi-omics approach reveals function of Secretory Carrier-Associated Membrane Proteins in wood formation of <i>Populus</i> trees. <i>BMC Genomics</i> , 2018, 19, 11.	1.2	25
30	Simultaneous determination of ribonucleoside and deoxyribonucleoside triphosphates in biological samples by hydrophilic interaction liquid chromatography coupled with tandem mass spectrometry. <i>Nucleic Acids Research</i> , 2018, 46, e66-e66.	6.5	40
31	Darkened Leaves Use Different Metabolic Strategies for Senescence and Survival. <i>Plant Physiology</i> , 2018, 177, 132-150.	2.3	62
32	Optimising methods for the recovery and quantification of di- and tripeptides in soil. <i>Soil Research</i> , 2018, 56, 404.	0.6	8
33	Metabolic Profiling of Multiorgan Samples: Evaluation of MODY5/RCAD Mutant Mice. <i>Journal of Proteome Research</i> , 2018, 17, 2293-2306.	1.8	4
34	At <b>bHLH68</b> transcription factor contributes to the regulation of ABA homeostasis and drought stress tolerance in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2017, 160, 312-327.	2.6	76
35	Defense Responses in Aspen with Altered Pectin Methylesterase Activity Reveal the Hormonal Inducers of Tyloses. <i>Plant Physiology</i> , 2017, 173, 1409-1419.	2.3	46
36	Enhanced Secondary- and Hormone Metabolism in Leaves of Arbuscular Mycorrhizal <i>Medicago truncatula</i> . <i>Plant Physiology</i> , 2017, 175, 392-411.	2.3	81

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37	Metabolome and transcriptome profiling reveal new insights into somatic embryo germination in Norway spruce ( <i>Picea abies</i> ). <i>Tree Physiology</i> , 2017, 37, 1752-1766.	1.4	24
38	Nitrogen uptake and assimilation in proliferating embryogenic cultures of Norway spruce – Investigating the specific role of glutamine. <i>PLoS ONE</i> , 2017, 12, e0181785.	1.1	18
39	Longitudinal analysis of hepatic transcriptome and serum metabolome demonstrates altered lipid metabolism following the onset of hyperglycemia in spontaneously diabetic biobreeding rats. <i>PLoS ONE</i> , 2017, 12, e0171372.	1.1	5
40	Functional metabolomics as a tool to analyze Mediator function and structure in plants. <i>PLoS ONE</i> , 2017, 12, e0179640.	1.1	13
41	Seasonal Variation of Carbon Metabolism in the Cambial Zone of <i>Eucalyptus grandis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 932.	1.7	8
42	Central Metabolic Responses to Ozone and Herbivory Affect Photosynthesis and Stomatal Closure. <i>Plant Physiology</i> , 2016, 172, 2057-2078.	2.3	29
43	Quantitative proteomics reveals protein profiles underlying major transitions in aspen wood development. <i>BMC Genomics</i> , 2016, 17, 119.	1.2	35
44	Multi-platform mass spectrometry analysis of the CSF and plasma metabolomes of rigorously matched amyotrophic lateral sclerosis, Parkinson's disease and control subjects. <i>Molecular BioSystems</i> , 2016, 12, 1287-1298.	2.9	108
45	Metabolomic Quality Assessment of EDTA Plasma and Serum Samples. <i>Biopreservation and Biobanking</i> , 2016, 14, 416-423.	0.5	22
46	Dissecting the Metabolic Role of Mitochondria during Developmental Leaf Senescence. <i>Plant Physiology</i> , 2016, 172, 2132-2153.	2.3	91
47	Reduced mitochondrial malate dehydrogenase activity has a strong effect on photorespiratory metabolism as revealed by <sup>13</sup> C labelling. <i>Journal of Experimental Botany</i> , 2016, 67, 3123-3135.	2.4	54
48	Multi-Organ Contribution to the Metabolic Plasma Profile Using Hierarchical Modelling. <i>PLoS ONE</i> , 2015, 10, e0129260.	1.1	22
49	<sup>13</sup> C Tracking after <sup>13</sup> CO <sub>2</sub> Supply Revealed Diurnal Patterns of Wood Formation in Aspen. <i>Plant Physiology</i> , 2015, 168, 478-489.	2.3	10
50	Silencing C <sub>19</sub> -GA 2-oxidases induces parthenocarpic development and inhibits lateral branching in tomato plants. <i>Journal of Experimental Botany</i> , 2015, 66, 5897-5910.	2.4	82
51	Transgenic hybrid aspen trees with increased gibberellin (<sc>GA</sc>) concentrations suggest that <sc>GA</sc> acts in parallel with <sc>FLOWERING LOCUS T</sc>2 to control shoot elongation. <i>New Phytologist</i> , 2015, 205, 1288-1295.	3.5	36
52	Cell-type specific metabolic profiling of <i>Arabidopsis thaliana</i> protoplasts as a tool for plant systems biology. <i>Metabolomics</i> , 2015, 11, 1679-1689.	1.4	23
53	Serum Metabolomic Biomarkers of Dementia. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , 2014, 4, 252-262.	0.6	43
54	CHOLINE TRANSPORTER-LIKE1 is required for sieve plate development to mediate long-distance cell-to-cell communication. <i>Nature Communications</i> , 2014, 5, 4276.	5.8	69

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55	Metabolite and Peptide Levels in Plasma and CSF Differentiating Healthy Controls from Patients with Newly Diagnosed Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2014, 4, 549-560.	1.5	99
56	Gibberellins inhibit adventitious rooting in hybrid aspen and <i>Arabidopsis</i> by affecting auxin transport. <i>Plant Journal</i> , 2014, 78, 372-384.	2.8	105
57	No Evidence of Geographical Structure of Salicinoid Chemotypes within <i>Populus Tremula</i> . <i>PLoS ONE</i> , 2014, 9, e107189.	1.1	39
58	OnPLS integration of transcriptomic, proteomic and metabolomic data shows multi-level oxidative stress responses in the cambium of transgenic hipl- superoxide dismutase <i>Populus</i> plants. <i>BMC Genomics</i> , 2013, 14, 893.	1.2	63
59	Metabolite profiling reveals clear metabolic changes during somatic embryo development of Norway spruce ( <i>Picea abies</i> ). <i>Tree Physiology</i> , 2012, 32, 232-244.	1.4	63
60	Strategy for Optimizing LC-MS Data Processing in Metabolomics: A Design of Experiments Approach. <i>Analytical Chemistry</i> , 2012, 84, 6869-6876.	3.2	92
61	Multivariate curve resolution provides a high-throughput data processing pipeline for pyrolysis-gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 95, 95-100.	2.6	79
62	Altered Metabolic Signature in Pre-Diabetic NOD Mice. <i>PLoS ONE</i> , 2012, 7, e35445.	1.1	14
63	Proper gibberellin localization in vascular tissue is required to control auxin-dependent leaf development and bud outgrowth in hybrid aspen. <i>Plant Journal</i> , 2011, 67, 805-816.	2.8	71
64	The sucrose-regulated <i>Arabidopsis</i> transcription factor bZIP11 reprograms metabolism and regulates trehalose metabolism. <i>New Phytologist</i> , 2011, 191, 733-745.	3.5	138
65	UHPLC-ESI/TOFMS Determination of Salicylate-like Phenolic Glycosides in <i>Populus tremula</i> Leaves. <i>Journal of Chemical Ecology</i> , 2011, 37, 857-870.	0.9	66
66	Serum metabolite signature predicts the acute onset of diabetes in spontaneously diabetic congenic BB rats. <i>Metabolomics</i> , 2011, 7, 593-603.	1.4	11
67	LC-MS/MS profiling for detection of endogenous steroids and prostaglandins in tissue samples. <i>Journal of Separation Science</i> , 2011, 34, 2650-2658.	1.3	24
68	Alteration of PHYA expression change circadian rhythms and timing of bud set in <i>Populus</i> . <i>Plant Molecular Biology</i> , 2010, 73, 143-156.	2.0	63
69	A Metabolomic Approach to Study Major Metabolite Changes during Acclimation to Limiting CO <sub>2</sub> in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2010, 154, 187-196.	2.3	80
70	Analyses of GA20ox and GID1 overexpressing aspen suggest that gibberellins play two distinct roles in wood formation. <i>Plant Journal</i> , 2009, 58, 989-1003.	2.8	161
71	Compensation for Systematic Cross-Contribution Improves Normalization of Mass Spectrometry Based Metabolomics Data. <i>Analytical Chemistry</i> , 2009, 81, 7974-7980.	3.2	173
72	An Auxin Gradient and Maximum in the <i>Arabidopsis</i> Root Apex Shown by High-Resolution Cell-Specific Analysis of IAA Distribution and Synthesis. <i>Plant Cell</i> , 2009, 21, 1659-1668.	3.1	439

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73	Metabolomics as a tool to evaluate exercise-induced improvements in insulin sensitivity. <i>Metabolomics</i> , 2008, 4, 273-282.	1.4	18
74	Visualization of GC/TOF-MS-Based Metabolomics Data for Identification of Biochemically Interesting Compounds Using OPLS Class Models. <i>Analytical Chemistry</i> , 2008, 80, 115-122.	3.2	1,053
75	Reduced gibberellin response affects ethylene biosynthesis and responsiveness in the Arabidopsis <i>gai1</i> double mutant. <i>New Phytologist</i> , 2008, 177, 128-141.	3.5	17
76	Crosstalk between gibberellin and auxin in development of <i>Populus</i> wood: gibberellin stimulates polar auxin transport and has a common transcriptome with auxin. <i>Plant Journal</i> , 2007, 52, 499-511.	2.8	208
77	Data integration in plant biology: the O2PLS method for combined modeling of transcript and metabolite data. <i>Plant Journal</i> , 2007, 52, 1181-1191.	2.8	209
78	Statistical multivariate metabolite profiling for aiding biomarker pattern detection and mechanistic interpretations in GC/MS based metabolomics. <i>Metabolomics</i> , 2007, 2, 257-268.	1.4	19
79	Biosynthesis of cellulose-enriched tension wood in <i>Populus</i> : global analysis of transcripts and metabolites identifies biochemical and developmental regulators in secondary wall biosynthesis. <i>Plant Journal</i> , 2006, 45, 144-165.	2.8	347
80	A strategy for modelling dynamic responses in metabolic samples characterized by GC/MS. <i>Metabolomics</i> , 2006, 2, 135-143.	1.4	24
81	Extraction and GC/MS Analysis of the Human Blood Plasma Metabolome. <i>Analytical Chemistry</i> , 2005, 77, 8086-8094.	3.2	464
82	Tissue-specific localization of gibberellins and expression of gibberellin-biosynthetic and signaling genes in wood-forming tissues in aspen. <i>Plant Journal</i> , 2005, 44, 494-504.	2.8	153
83	GC-MS libraries for the rapid identification of metabolites in complex biological samples. <i>FEBS Letters</i> , 2005, 579, 1332-1337.	1.3	596
84	High-Throughput Data Analysis for Detecting and Identifying Differences between Samples in GC/MS-Based Metabolomic Analyses. <i>Analytical Chemistry</i> , 2005, 77, 5635-5642.	3.2	383
85	<i>AtGA3ox2</i> , a Key Gene Responsible for Bioactive Gibberellin Biosynthesis, Is Regulated during Embryogenesis by <i>LEAFY COTYLEDON2</i> and <i>FUSCA3</i> in Arabidopsis. <i>Plant Physiology</i> , 2004, 136, 3660-3669.	2.3	216
86	Cloning and Overproduction of Gibberellin 3-Oxidase in Hybrid Aspen Trees. Effects on Gibberellin Homeostasis and Development. <i>Plant Physiology</i> , 2004, 135, 221-230.	2.3	71
87	Gibberellins and the floral transition in <i>Sinapis alba</i> . <i>Physiologia Plantarum</i> , 2004, 122, 152-158.	2.6	11
88	Derivatization for LC-Electrospray Ionization-MS: A Tool for Improving Reversed-Phase Separation and ESI Responses of Bases, Ribosides, and Intact Nucleotides. <i>Analytical Chemistry</i> , 2004, 76, 2869-2877.	3.2	89
89	Design of experiments: an efficient strategy to identify factors influencing extraction and derivatization of Arabidopsis thaliana samples in metabolomic studies with gas chromatography/mass spectrometry. <i>Analytical Biochemistry</i> , 2004, 331, 283-295.	1.1	424
90	Independent Activation of Cold Acclimation by Low Temperature and Short Photoperiod in Hybrid Aspen. <i>Plant Physiology</i> , 2002, 129, 1633-1641.	2.3	175

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91	Daylength and spatial expression of a gibberellin 20-oxidase isolated from hybrid aspen ( <i>Populus</i> Tj ETQq1 1 0.784314 rgBT /Overloc	1.6	80
92	Function and Dynamics of Auxin and Carbohydrates during Earlywood/Latewood Transition in Scots Pine. <i>Plant Physiology</i> , 2001, 125, 2029-2039.	2.3	208
93	Gibberellins Are Not Required for Normal Stem Growth in <i>Arabidopsis thaliana</i> in the Absence of GAI and RGA. <i>Genetics</i> , 2001, 159, 767-776.	1.2	244
94	Deuterium in vivo labelling of cytokinins in <i>Arabidopsis thaliana</i> analysed by capillary liquid chromatography/frit-fast atom bombardment mass spectrometry. , 2000, 35, 13-22.		17
95	Transgenic tobacco plants co-expressing <i>Agrobacterium</i> <i>iaa</i> and <i>ipt</i> genes have wild-type hormone levels but display both auxin- and cytokinin-overproducing phenotypes. <i>Plant Journal</i> , 2000, 23, 279-284.	2.8	66
96	Increased gibberellin biosynthesis in transgenic trees promotes growth, biomass production and xylem fiber length. <i>Nature Biotechnology</i> , 2000, 18, 784-788.	9.4	497
97	The <i>Arabidopsis</i> Dwarf Mutant <i>shi</i> Exhibits Reduced Gibberellin Responses Conferred by Overexpression of a New Putative Zinc Finger Protein. <i>Plant Cell</i> , 1999, 11, 1019-1031.	3.1	158
98	Precolumn derivatization and capillary liquid chromatographic/frit-fast atom bombardment mass spectrometric analysis of cytokinins in <i>Arabidopsis thaliana</i> . , 1998, 33, 892-902.		38
99	Ectopic expression of oat phytochrome A in hybrid aspen changes critical daylength for growth and prevents cold acclimatization. <i>Plant Journal</i> , 1997, 12, 1339-1350.	2.8	264
100	Endogenous cytokinins in the vascular cambial region of <i>Pinus sylvestris</i> during activity and dormancy. <i>Physiologia Plantarum</i> , 1996, 98, 693-698.	2.6	29
101	Liquid chromatography/fast atom bombardment and electrospray ionization mass spectrometry of gibberellin A3 1,2-trans-glycosyl esters. <i>Journal of Mass Spectrometry</i> , 1995, 30, 1489-1494.	0.7	6
102	Relations between cytokinin level, bud development and apical control in Norway spruce, <i>Picea abies</i> . <i>Physiologia Plantarum</i> , 1995, 95, 563-568.	2.6	29
103	Separation and identification of cytokinins using combined capillary liquid chromatography/mass spectrometry. <i>Biological Mass Spectrometry</i> , 1993, 22, 201-210.	0.5	14
104	The use of combined capillary liquid chromatography/mass spectrometry for the identification of a gibberellin glucosyl conjugate. <i>Phytochemical Analysis</i> , 1992, 3, 32-37.	1.2	19
105	Liquid chromatography/mass spectrometry of conjugates and oxidative metabolites of indole-3-acetic acid. <i>Biological Mass Spectrometry</i> , 1992, 21, 292-298.	0.5	37
106	Capillary liquid chromatography/fast atom bombardment mass spectrometry of gibberellin glucosyl conjugates. <i>Biological Mass Spectrometry</i> , 1992, 21, 554-559.	0.5	14
107	Metabolism of tritiated and deuterated gibberellin A9 in Norway spruce ( <i>Picea abies</i> ) shoots during the period of cone-bud differentiation. <i>Physiologia Plantarum</i> , 1990, 79, 242-249.	2.6	19
108	Quantitation of gibberellins A1, A3, A4, A9 and an A9-conjugate in good- and poor-flowering clones of Sitka spruce ( <i>Picea sitchensis</i> ) during the period of flower-bud differentiation. <i>Planta</i> , 1990, 181, 538-42.	1.6	17

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109	Quantitation of Gibberellins A1, A3, A4, A9 and a Putative A9-Conjugate in Grafts of Sitka Spruce ( <i>Picea</i> ) Tj ETQq1	1.0784314 2.3	14 16
110	Detection and identification of gibberellins in Sitka spruce ( <i>Picea sitchensis</i> ) of different ages and coning ability by bioassay, radioimmunoassay and gas chromatography - mass spectrometry. <i>Physiologia Plantarum</i> , 1989, 75, 325-332.	2.6	26
111	Metabolism of tritiated and deuterated gibberellins A1, A4 and A9 in Sitka spruce ( <i>Picea sitchensis</i> ) shoots during the period of cone-bud differentiation. <i>Physiologia Plantarum</i> , 1989, 77, 39-45.	2.6	25