Ivo Feussner

List of Publications by Year
in descending order

336 papers	24,659 citations	6254 80 h-index	11052 137 g-index
442 all docs	442 docs citations	442 times ranked	22798 citing authors

#	Article	IF	Citations
1	THELIPOXYGENASEPATHWAY. Annual Review of Plant Biology, 2002, 53, 275-297.	18.7	1,277
2	The genome of Laccaria bicolor provides insights into mycorrhizal symbiosis. Nature, 2008, 452, 88-92.	27.8	1,003
3	Rapid Induction of Distinct Stress Responses after the Release of Singlet Oxygen in Arabidopsis[W]. Plant Cell, 2003, 15, 2320-2332.	6.6	679
4	MYB72-dependent coumarin exudation shapes root microbiome assembly to promote plant health. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5213-E5222.	7.1	608
5	Metabolic priming by a secreted fungal effector. Nature, 2011, 478, 395-398.	27.8	509
6	Insights Into Oxidized Lipid Modification in Barley Roots as an Adaptation Mechanism to Salinity Stress. Frontiers in Plant Science, 2020, 11, 1.	3.6	477
7	Fatty acid profiles and their distribution patterns in microalgae: a comprehensive analysis of more than 2000 strains from the SAG culture collection. BMC Plant Biology, 2011, 11, 124.	3.6	400
8	The Oxylipin Pathways: Biochemistry and Function. Annual Review of Plant Biology, 2018, 69, 363-386.	18.7	372
9	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. Journal of Lipid Research, 2020, 61, 1539-1555.	4.2	372
10	Lipoxygenases: Occurrence, functions and catalysis. Journal of Plant Physiology, 2006, 163, 348-357.	3.5	358
11	Oxylipins: Structurally diverse metabolites from fatty acid oxidation. Plant Physiology and Biochemistry, 2009, 47, 511-517.	5.8	351
12	Lipoxygenases â€“ Structure and reaction mechanism. Phytochemistry, 2009, 70, 1504-1510.	2.9	321
13	Isochorismate-derived biosynthesis of the plant stress hormone salicylic acid. Science, 2019, 365, 498-502.	12.6	273
14	Biosynthesis of oxylipins in non-mammals. Progress in Lipid Research, 2009, 48, 148-170.	11.6	265
15	The wound response in tomato â€“ Role of jasmonic acid. Journal of Plant Physiology, 2006, 163, 297-306.	3.5	259
16	<i>Piriformospora indica </i>affects plant growth by auxin production. Physiologia Plantarum, 2007, 131, 581-589.	5.2	247
17	Jasmonate biosynthesis and the allene oxide cyclase family of Arabidopsis thaliana. Plant Molecular Biology, 2003, 51, 895-911.	3.9	246
18	Precisely measured protein lifetimes in the mouse brain reveal differences across tissues and subcellular fractions. Nature Communications, 2018, 9, 4230.	12.8	219

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19	The maize lipoxygenase, <i>Zm<scp>LOX</scp>10</i>, mediates green leaf volatile, jasmonate and herbivoreâ€induced plant volatile production for defense against insect attack. Plant Journal, 2013, 74, 59-73.	5.7	217
20	A secreted Ustilago maydis effector promotes virulence by targeting anthocyanin biosynthesis in maize. ELife, 2014, 3, e01355.	6.0	217
21	Exosome Secretion Ameliorates Lysosomal Storage of Cholesterol in Niemann-Pick Type C Disease. Journal of Biological Chemistry, 2010, 285, 26279-26288.	3.4	199
22	Chloroplasts of <i>Arabidopsis</i> Are the Source and a Primary Target of a Plant-Specific Programmed Cell Death Signaling Pathway. Plant Cell, 2012, 24, 3026-3039.	6.6	199
23	Upgrading Root Physiology for Stress Tolerance by Ectomycorrhizas: Insights from Metabolite and Transcriptional Profiling into Reprogramming for Stress Anticipation. Plant Physiology, 2009, 151, 1902-1917.	4.8	186
24	Wax biosynthesis in response to danger: its regulation upon abiotic and biotic stress. New Phytologist, 2020, 227, 698-713.	7.3	177
25	Truffles Regulate Plant Root Morphogenesis via the Production of Auxin and Ethylene Â Â Â. Plant Physiology, 2009, 150, 2018-2029.	4.8	171
26	Lipoxygenase-dependent degradation of storage lipids. Trends in Plant Science, 2001, 6, 268-273.	8.8	167
27	Disruption of a Maize 9-Lipoxygenase Results in Increased Resistance to Fungal Pathogens and Reduced Levels of Contamination with Mycotoxin Fumonisin. Molecular Plant-Microbe Interactions, 2007, 20, 922-933.	2.6	167
28	Eudicot plant-specific sphingolipids determine host selectivity of microbial NLP cytolysins. Science, 2017, 358, 1431-1434.	12.6	167
29	Allene oxide synthases of barley (Hordeum vulgare cv. Salome): tissue specific regulation in seedling development. Plant Journal, 2000, 21, 199-213.	5.7	163
30	Oxylipins in fungi. FEBS Journal, 2011, 278, 1047-1063.	4.7	162
31	Phosphatidylinositol 4,5-Bisphosphate Influences PIN Polarization by Controlling Clathrin-Mediated Membrane Trafficking in<i>Arabidopsis</i>Â Â. Plant Cell, 2014, 25, 4894-4911.	6.6	158
32	Maize 9-Lipoxygenase ZmLOX3 Controls Development, Root-Specific Expression of Defense Genes, and Resistance to Root-Knot Nematodes. Molecular Plant-Microbe Interactions, 2008, 21, 98-109.	2.6	157
33	VIH2 Regulates the Synthesis of Inositol Pyrophosphate InsP₈ and Jasmonate-Dependent Defenses in Arabidopsis. Plant Cell, 2015, 27, 1082-1097.	6.6	153
34	Jasmonate Biosynthesis in Arabidopsis thaliana - Enzymes, Products, Regulation. Plant Biology, 2006, 8, 297-306.	3.8	152
35	Oxylipin Profiling Reveals the Preferential Stimulation of the 9-Lipoxygenase Pathway in Elicitor-treated Potato Cells. Journal of Biological Chemistry, 2001, 276, 6267-6273.	3.4	150
36	The ABC Transporter PXA1 and Peroxisomal Î2-Oxidation Are Vital for Metabolism in Mature Leaves of<i>Arabidopsis</i>during Extended Darkness Â Â. Plant Cell, 2009, 21, 2733-2749.	6.6	150

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37	Current trends to comprehend lipid metabolism in diatoms. Progress in Lipid Research, 2018, 70, 1-16.	11.6	144
38	The <i>Arabidopsis</i> Patatin-Like Protein 2 (PLP2) Plays an Essential Role in Cell Death Execution and Differentially Affects Biosynthesis of Oxylipins and Resistance to Pathogens. Molecular Plant-Microbe Interactions, 2009, 22, 469-481.	2.6	141
39	Conversion of cucumber linoleate 13-lipoxygenase to a 9-lipoxygenating species by site-directed mutagenesis. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4192-4197.	7.1	138
40	Large-scale reduction of the <i>Bacillus subtilis</i> genome: consequences for the transcriptional network, resource allocation, and metabolism. Genome Research, 2017, 27, 289-299.	5.5	137
41	Oxylipin Profiling of the Hypersensitive Response inArabidopsis thaliana. Journal of Biological Chemistry, 2006, 281, 31528-31537.	3.4	136
42	Cadmium interferes with auxin physiology and lignification in poplar. Journal of Experimental Botany, 2012, 63, 1413-1421.	4.8	136
43	An enhanced plant lipidomics method based on multiplexed liquid chromatographyâ€"mass spectrometry reveals additional insights into coldâ€•and droughtâ€induced membrane remodeling. Plant Journal, 2015, 84, 621-633.	5.7	136
44	Jasmonic acid perception by COI1 involves inositol polyphosphates in <i>Arabidopsis thaliana</i>. Plant Journal, 2011, 65, 949-957.	5.7	134
45	Oxylipin profiling in pathogen-infected potato leaves. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1584, 55-64.	2.4	131
46	Secreted Fungal Effector Lipase Releases Free Fatty Acids to Inhibit Innate Immunity-Related Callose Formation during Wheat Head Infection Â. Plant Physiology, 2014, 165, 346-358.	4.8	130
47	The moss <i>Physcomitrella patens</i> contains cyclopentenones but no jasmonates: mutations in allene oxide cyclase lead to reduced fertility and altered sporophyte morphology. New Phytologist, 2010, 188, 740-749.	7.3	125
48	Lipoxygenase-catalyzed oxygenation of storage lipids is implicated in lipid mobilization during germination.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 11849-11853.	7.1	124
49	Inactivation of the Lipoxygenase <i>ZmLOX3</i> Increases Susceptibility of Maize to <i>Aspergillus</i> spp.. Molecular Plant-Microbe Interactions, 2009, 22, 222-231.	2.6	124
50	What the transcriptome does not tell â€" proteomics and metabolomics are closer to the plantsâ€™ patho-phenotype. Current Opinion in Plant Biology, 2015, 26, 26-31.	7.1	124
51	Duplicate maize 13-lipoxygenase genes are differentially regulated by circadian rhythm, cold stress, wounding, pathogen infection, and hormonal treatments. Journal of Experimental Botany, 2006, 57, 3767-3779.	4.8	123
52	Lipid metabolism in arbuscular mycorrhizal roots of Medicago truncatula. Phytochemistry, 2005, 66, 781-791.	2.9	121
53	Characterization of a Pipecolic Acid Biosynthesis Pathway Required for Systemic Acquired Resistance. Plant Cell, 2016, 28, 2603-2615.	6.6	121
54	Transcriptional Activation and Production of Tryptophan-Derived Secondary Metabolites in Arabidopsis Roots Contributes to the Defense against the Fungal Vascular Pathogen Verticillium longisporum. Molecular Plant, 2012, 5, 1389-1402.	8.3	120

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55	Formation of oxylipins by CYP74 enzymes. Phytochemistry Reviews, 2006, 5, 347-357.	6.5	118
56	Enzymatic, but not nonâ€enzymatic, ¹O₂â€mediated peroxidation of polyunsaturated fatty acids forms part of the EXECUTER1â€dependent stress response program in the <i>flu</i> mutant of <i>Arabidopsis thaliana</i>. Plant Journal, 2008, 54, 236-248.	5.7	115
57	Fatty Acids and their Derivatives as Renewable Platform Molecules for the Chemical Industry. Angewandte Chemie - International Edition, 2021, 60, 20144-20165.	13.8	114
58	Myosin Cross-reactive Antigen of Streptococcus pyogenes M49 Encodes a Fatty Acid Double Bond Hydratase That Plays a Role in Oleic Acid Detoxification and Bacterial Virulence. Journal of Biological Chemistry, 2010, 285, 10353-10361.	3.4	112
59	Verticillium longisporum Infection Affects the Leaf Apoplastic Proteome, Metabolome, and Cell Wall Properties in Arabidopsis thaliana. PLoS ONE, 2012, 7, e31435.	2.5	112
60	Soluble phenylpropanoids are involved in the defense response of <scp>A</scp>rabidopsis against <i><scp>V</scp>erticillium longisporum</i>. New Phytologist, 2014, 202, 823-837.	7.3	110
61	Gradients of lipid storage, photosynthesis and plastid differentiation in developing soybean seeds. New Phytologist, 2005, 167, 761-776.	7.3	109
62	Fatty acid 9- and 13-hydroperoxide lyases from cucumber1. FEBS Letters, 2000, 481, 183-188.	2.8	104
63	Oxo-Phytodienoic Acid-Containing Galactolipids in Arabidopsis: Jasmonate Signaling Dependence. Plant Physiology, 2007, 145, 1658-1669.	4.8	104
64	Structure and mechanism of the Propionibacterium acnes polyunsaturated fatty acid isomerase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2576-2581.	7.1	100
65	Lipid mediators from pollen act as chemoattractants and activators of polymorphonuclear granulocytes. Journal of Allergy and Clinical Immunology, 2002, 109, 831-838.	2.9	99
66	Identification and characterization of an acyl-CoA:diacylglycerol acyltransferase 2 (DGAT2) gene from the microalga O. tauri. Plant Physiology and Biochemistry, 2010, 48, 407-416.	5.8	97
67	Lipid Peroxidation during the Hypersensitive Response in Potato in the Absence of 9-Lipoxygenases. Journal of Biological Chemistry, 2003, 278, 52834-52840.	3.4	96
68	The jasmonate-insensitive mutant jin1 shows increased resistance to biotrophic as well as necrotrophic pathogens. Molecular Plant Pathology, 2004, 5, 425-434.	4.2	95
69	The role ofEDS1(enhanced disease susceptibility) during singlet oxygen-mediated stress responses of Arabidopsis. Plant Journal, 2006, 47, 445-456.	5.7	95
70	Warm and cold parental reproductive environments affect seed properties, fitness, and cold responsiveness in Arabidopsis thaliana progenies. Plant, Cell and Environment, 2007, 30, 165-175.	5.7	95
71	Metabolic Engineering of Ï‰3-Very Long Chain Polyunsaturated Fatty Acid Production by an Exclusively Acyl-CoA-dependent Pathway. Journal of Biological Chemistry, 2008, 283, 22352-22362.	3.4	93
72	Attacks by a piercing-sucking insect (Myzus persicae Sultzer) or a chewing insect (Leptinotarsa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 compound release and oxylipin synthesis. Journal of Experimental Botany, 2009, 60, 1231-1240.	4.8	92

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73	Disruption of the ceramide synthase LOH1 causes spontaneous cell death in <i>Arabidopsis thaliana</i>. New Phytologist, 2011, 192, 841-854.	7.3	90
74	A Multifunctional Lipoxygenase with Fatty Acid Hydroperoxide Cleaving Activity from the Moss Physcomitrella patens. Journal of Biological Chemistry, 2005, 280, 7588-7596.	3.4	89
75	<i>Sporisorium reilianum</i>Infection Changes Inflorescence and Branching Architectures of Maize Â Â Â. Plant Physiology, 2011, 156, 2037-2052.	4.8	89
76	The Novel Monocot-Specific 9-Lipoxygenase ZmLOX12 Is Required to Mount an Effective Jasmonate-Mediated Defense Against <i>Fusarium verticillioides</i> in Maize. Molecular Plant-Microbe Interactions, 2014, 27, 1263-1276.	2.6	89
77	Enzymatic and non-enzymatic lipid peroxidation in leaf development. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2001, 1533, 266-276.	2.4	88
78	A pathogen-inducible divinyl ether synthase (CYP74D) from elicitor-treated potato suspension cells1. FEBS Letters, 2001, 507, 371-376.	2.8	87
79	Formation of conjugated Î”11Î”13-double bonds by Î”12-linoleic acid (1,4)-acyl-lipid-desaturase in pomegranate seeds. FEBS Journal, 2002, 269, 4852-4859.	0.2	87
80	Nannochloropsis, a rich source of diacylglycerol acyltransferases for engineering of triacylglycerol content in different hosts. Biotechnology for Biofuels, 2017, 10, 8.	6.2	85
81	Metabolic profiling of oxylipins upon salicylate treatment in barley leaves - preferential induction of the reductase pathway by salicylate1. FEBS Letters, 1999, 464, 133-137.	2.8	83
82	Reciprocal oxylipinâ€mediated crossâ€talk in the <i>Aspergillus</i>â€“seed pathosystem. Molecular Microbiology, 2008, 67, 378-391.	2.5	83
83	Intraspecific genotypic variability determines concentrations of key truffle volatiles. New Phytologist, 2012, 194, 823-835.	7.3	83
84	<scp>A</scp>rabidopsis mutants of sphingolipid fatty acid Î±â€hydroxylases accumulate ceramides and salicylates. New Phytologist, 2012, 196, 1086-1097.	7.3	83
85	Characterization of a Divinyl Ether Biosynthetic Pathway Specifically Associated with Pathogenesis in Tobacco. Plant Physiology, 2007, 143, 378-388.	4.8	81
86	The COP9 signalosome mediates transcriptional and metabolic response to hormones, oxidative stress protection and cell wall rearrangement during fungal development. Molecular Microbiology, 2010, 78, 964-979.	2.5	81
87	Jasmonate-induced lipoxygenase forms are localized in chloroplasts of barley leaves (Hordeum) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.7	80
88	Development of Agrobacterium tumefaciens C58-induced plant tumors and impact on host shoots are controlled by a cascade of jasmonic acid, auxin, cytokinin, ethylene and abscisic acid. Planta, 2003, 216, 512-522.	3.2	80
89	Identification of PpoA from Aspergillus nidulans as a Fusion Protein of a Fatty Acid Heme Dioxygenase/Peroxidase and a Cytochrome P450. Journal of Biological Chemistry, 2009, 284, 11792-11805.	3.4	80
90	Differential Induction of Lipoxygenase Isoforms in Wheat upon Treatment with Rust Fungus Elicitor, Chitin Oligosaccharides, Chitosan, and Methyl Jasmonate. Plant Physiology, 1997, 114, 679-685.	4.8	79

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91	Structural Basis for Lipoxygenase Specificity. Journal of Biological Chemistry, 2001, 276, 773-779.	3.4	79
92	Chemotaxis and activation of human peripheral blood eosinophils induced by pollen-associated lipid mediators. Journal of Allergy and Clinical Immunology, 2004, 113, 1152-1160.	2.9	79
93	Methods for the analysis of oxylipins in plants. Phytochemistry, 2009, 70, 1485-1503.	2.9	79
94	Phosphoinositide and Inositolpolyphosphate Signalling in Defense Responses of Arabidopsis thaliana Challenged by Mechanical Wounding. Molecular Plant, 2008, 1, 249-261.	8.3	78
95	Biosynthesis of fatty acid derived aldehydes is induced upon mechanical wounding and its products show fungicidal activities in cucumber. Phytochemistry, 2006, 67, 649-657.	2.9	76
96	Myosin-cross-reactive antigen (MCRA) protein from Bifidobacterium breve is a FAD-dependent fatty acid hydratase which has a function in stress protection. BMC Biochemistry, 2011, 12, 9.	4.4	75
97	Two Fatty Acid Desaturases, STEAROYL-ACYL CARRIER PROTEIN Î”⁹-DESATURASE6 and FATTY ACID DESATURASE3, Are Involved in Drought and Hypoxia Stress Signaling in Arabidopsis Crown Galls. Plant Physiology, 2014, 164, 570-583.	4.8	75
98	Potato tuber expression of Arabidopsis WRINKLED1 increase triacylglycerol and membrane lipids while affecting central carbohydrate metabolism. Plant Biotechnology Journal, 2016, 14, 1883-1898.	8.3	74
99	Two Acyltransferases Contribute Differently to Linolenic Acid Levels in Seed Oil. Plant Physiology, 2017, 173, 2081-2095.	4.8	74
100	An Iron 13S-Lipoxygenase with an Î±-Linolenic Acid Specific Hydroperoxidase Activity from Fusarium oxysporum. PLoS ONE, 2013, 8, e64919.	2.5	72
101	MarVis-Pathway: integrative and exploratory pathway analysis of non-targeted metabolomics data. Metabolomics, 2015, 11, 764-777.	3.0	72
102	The glycosyltransferase UGT76B1 modulates<i>N</i>-hydroxy-pipecolic acid homeostasis and plant immunity. Plant Cell, 2021, 33, 735-749.	6.6	71
103	Characterization of a methyljasmonate-inducible lipoxygenase from barley (Hordeum vulgare cv.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.2	70
104	Production of (10E,12Z)-conjugated linoleic acid in yeast and tobacco seeds. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1738, 105-114.	2.4	70
105	Tissue-Specific Accumulation and Regulation of Zeaxanthin Epoxidase in Arabidopsis Reflect the Multiple Functions of the Enzyme in Plastids. Plant and Cell Physiology, 2015, 56, 346-357.	3.1	70
106	Metabolome Analysis Reveals Betaine Lipids as Major Source for Triglyceride Formation, and the Accumulation of Sedoheptulose during Nitrogen-Starvation of Phaeodactylum tricornutum. PLoS ONE, 2016, 11, e0164673.	2.5	70
107	Formation of lipoxygenase-pathway-derived aldehydes in barley leaves upon methyl jasmonate treatment. FEBS Journal, 1999, 260, 885-895.	0.2	68
108	Structural Elucidation of Oxygenated Storage Lipids in Cucumber Cotyledons. Journal of Biological Chemistry, 1997, 272, 21635-21641.	3.4	67

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109	The evolution of the phenylpropanoid pathway entailed pronounced radiations and divergences of enzyme families. Plant Journal, 2021, 107, 975-1002.	5.7	67
110	Phosphoenolpyruvate Provision to Plastids Is Essential for Gametophyte and Sporophyte Development in<i>Arabidopsis thaliana</i>Â Â. Plant Cell, 2010, 22, 2594-2617.	6.6	66
111	OPDA Has Key Role in Regulating Plant Susceptibility to the Root-Knot Nematode Meloidogyne hapla in Arabidopsis. Frontiers in Plant Science, 2016, 7, 1565.	3.6	66
112	Circadian Stress Regimes Affect the Circadian Clock and Cause Jasmonic Acid-Dependent Cell Death in Cytokinin-Deficient Arabidopsis Plants. Plant Cell, 2016, 28, tpc.00016.2016.	6.6	66
113	Metabolic engineering of light-driven cytochrome P450 dependent pathways into Synechocystis sp. PCC 6803. Metabolic Engineering, 2016, 33, 1-11.	7.0	66
114	Breaking the Silence: Protein Stabilization Uncovers Silenced Biosynthetic Gene Clusters in the Fungus Aspergillus nidulans. Applied and Environmental Microbiology, 2012, 78, 8234-8244.	3.1	64
115	Phloem-Specific Expression of Yang Cycle Genes and Identification of Novel Yang Cycle Enzymes in<i>Plantago</i>and<i>Arabidopsis</i>Â Â. Plant Cell, 2011, 23, 1904-1919.	6.6	63
116	Membrane-Bound Methyltransferase Complex VapA-VipC-VapB Guides Epigenetic Control of Fungal Development. Developmental Cell, 2014, 29, 406-420.	7.0	63
117	A lipoxygenase is the main lipid body protein in cucumber and soybean cotyledons during the stage of triglyceride mobilization. FEBS Letters, 1992, 298, 223-225.	2.8	62
118	The alphabet of galactolipids in Arabidopsis thaliana. Frontiers in Plant Science, 2011, 2, 95.	3.6	62
119	The Vascular Pathogen <i>Verticillium longisporum</i> Requires a Jasmonic Acid-Independent COI1 Function in Roots to Elicit Disease Symptoms in Arabidopsis Shoots Â. Plant Physiology, 2012, 159, 1192-1203.	4.8	61
120	The fatty acyl-CoA reductase Waterproof mediates airway clearance in Drosophila. Developmental Biology, 2014, 385, 23-31.	2.0	61
121	Quantitative imaging of oil storage in developing crop seeds. Plant Biotechnology Journal, 2008, 6, 31-45.	8.3	60
122	Isolation and characterization of the plasma membrane from the yeast Pichia pastoris. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1889-1897.	2.6	59
123	Characterization of a Novel Lipoxygenase-Independent Senescence Mechanism in Alstroemeria peruviana Floral Tissue. Plant Physiology, 2002, 130, 273-283.	4.8	58
124	Identification of an allene oxide synthase (CYP74C) that leads to formation ofÎ±-ketols from 9-hydroperoxides of linoleic and linolenic acid in below-ground organs of potato. Plant Journal, 2006, 47, 883-896.	5.7	58
125	1O2-mediated retrograde signaling during late embryogenesis predetermines plastid differentiation in seedlings by recruiting abscisic acid. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9920-9924.	7.1	58
126	Two Pathways of Sphingolipid Biosynthesis Are Separated in the Yeast Pichia pastoris. Journal of Biological Chemistry, 2011, 286, 11401-11414.	3.4	58

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127	Choline transporterâ€like1 (<scp>CHER</scp>1) is crucial for plasmodesmata maturation in <i>Arabidopsis thaliana</i>. Plant Journal, 2017, 89, 394-406.	5.7	58
128	Metabolite-based clustering and visualization of mass spectrometry data using one-dimensional self-organizing maps. Algorithms for Molecular Biology, 2008, 3, 9.	1.2	57
129	Jasmonate-Induced Lipid Peroxidation in Barley Leaves Initiated by Distinct 13-LOX Forms of Chloroplasts. Biological Chemistry, 2002, 383, 1645-57.	2.5	56
130	Reduced Biosynthesis of Digalactosyldiacylglycerol, a Major Chloroplast Membrane Lipid, Leads to Oxylipin Overproduction and Phloem Cap Lignification in Arabidopsis. Plant Cell, 2016, 28, 219-232.	6.6	56
131	Changes of global gene expression and secondary metabolite accumulation during light-dependent Aspergillus nidulans development. Fungal Genetics and Biology, 2016, 87, 30-53.	2.1	56
132	The ectomycorrhizal fungus (Paxillus involutus) modulates leaf physiology of poplar towards improved salt tolerance. Environmental and Experimental Botany, 2011, 72, 304-311.	4.2	55
133	Biosynthesis of C9-aldehydes in the moss Physcomitrella patensâ˜†. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 301-312.	2.4	54
134	The Microalga <i>Nannochloropsis</i> during Transition from Quiescence to Autotrophy in Response to Nitrogen Availability. Plant Physiology, 2020, 182, 819-839.	4.8	54
135	<i>Ustilago maydis</i> effector Jsi1 interacts with Topless corepressor, hijacking plant jasmonate/ethylene signaling. New Phytologist, 2021, 229, 3393-3407.	7.3	54
136	Diversity in octadecanoid-induced gene expression of tomato. Journal of Plant Physiology, 1998, 152, 345-352.	3.5	53
137	PpoC from Aspergillus nidulans is a fusion protein with only one active haem. Biochemical Journal, 2010, 425, 553-565.	3.7	53
138	The Reductase Activity of the Arabidopsis Caleosin RESPONSIVE TO DESSICATION20 Mediates Gibberellin-Dependent Flowering Time, Abscisic Acid Sensitivity, and Tolerance to Oxidative Stress Â. Plant Physiology, 2014, 166, 109-124.	4.8	53
139	The genome of jojoba (<i>Simmondsia chinensis</i>): A taxonomically isolated species that directs wax ester accumulation in its seeds. Science Advances, 2020, 6, eaay3240.	10.3	53
140	Particulate and soluble lipoxygenase isoenzymes. Planta, 1994, 194, 22.	3.2	52
141	Effect of nitrate supply and mycorrhizal inoculation on characteristics of tobacco root plasma membrane vesicles. Planta, 2010, 231, 425-436.	3.2	52
142	Metabolic profiling of oxylipins in germinating cucumber seedlings - lipoxygenase-dependent degradation of triacylglycerols and biosynthesis of volatile aldehydes. Planta, 2002, 215, 612-619.	3.2	50
143	Unprecedented Lipoxygenase/Hydroperoxide Lyase Pathways in the MossPhyscomitrella patens. Angewandte Chemie - International Edition, 2005, 44, 158-161.	13.8	49
144	The lipoxygenase-dependent oxygenation of lipid body membranes is promoted by a patatin-type phospholipase in cucumber cotyledons. Journal of Experimental Botany, 2011, 62, 749-760.	4.8	49

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145	MarVis-Filter: Ranking, Filtering, Adduct and Isotope Correction of Mass Spectrometry Data. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-7.	3.0	49
146	A Caenorhabditis elegans model for ether lipid biosynthesis and function. Journal of Lipid Research, 2016, 57, 265-275.	4.2	49
147	A Bisallylic Mini-lipoxygenase from Cyanobacterium Cyanothece sp. That Has an Iron as Cofactor. Journal of Biological Chemistry, 2010, 285, 14178-14186.	3.4	48
148	Hydrogen sulfide is a novel potential virulence factor of <scp><i>M</i></scp><i>ycoplasma pneumoniae</i>: characterization of the unusual cysteine desulfurase/desulfhydrase HapE. Molecular Microbiology, 2016, 100, 42-54.	2.5	48
149	A high-resolution HPLC-QqTOF platform using parallel reaction monitoring for in-depth lipid discovery and rapid profiling. Analytica Chimica Acta, 2018, 1026, 87-100.	5.4	47
150	Aspergillus Infection Inhibits the Expression of Peanut 13S-HPODE-Forming Seed Lipoxygenases. Molecular Plant-Microbe Interactions, 2005, 18, 1081-1089.	2.6	46
151	A novel plastidial lipoxygenase of maize (Zea mays) ZmLOX6 encodes for a fatty acid hydroperoxide lyase and is uniquely regulated by phytohormones and pathogen infection. Planta, 2007, 227, 491-503.	3.2	46
152	Wax ester profiling of seed oil by nano-electrospray ionization tandem mass spectrometry. Plant Methods, 2013, 9, 24.	4.3	46
153	Crystal structure analysis of a fatty acid double-bond hydratase from<i>Lactobacillus acidophilus</i>. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 648-657.	2.5	46
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