

Jennifer C Mortimer

List of Publications by Year in descending order

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85
papers

5,152
citations

117625

34
h-index

95266

68
g-index

95
all docs

95
docs citations

95
times ranked

6208
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycan complexity dictates microbial resource allocation in the large intestine. <i>Nature Communications</i> , 2015, 6, 7481.	12.8	328
2	Folding of xylan onto cellulose fibrils in plant cell walls revealed by solid-state NMR. <i>Nature Communications</i> , 2016, 7, 13902.	12.8	287
3	Absence of branches from xylan in <i>Arabidopsis gux</i> mutants reveals potential for simplification of lignocellulosic biomass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17409-17414.	7.1	283
4	Glycosyl transferases in family 61 mediate arabinofuranosyl transfer onto xylan in grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 989-993.	7.1	263
5	Lignin biosynthesis perturbations affect secondary cell wall composition and saccharification yield in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2013, 6, 46.	6.2	251
6	VASCULAR-RELATED NAC-DOMAIN6 and VASCULAR-RELATED NAC-DOMAIN7 Effectively Induce Transdifferentiation into Xylem Vessel Elements under Control of an Induction System A. <i>Plant Physiology</i> , 2010, 153, 906-914.	4.8	250
7	Annexins: multifunctional components of growth and adaptation. <i>Journal of Experimental Botany</i> , 2008, 59, 533-544.	4.8	231
8	Plant extracellular ATP signalling by plasma membrane NADPH oxidase and Ca ²⁺ channels. <i>Plant Journal</i> , 2009, 58, 903-913.	5.7	191
9	Cell wall glucomannan in <i>Arabidopsis</i> is synthesised by CSLA glycosyltransferases, and influences the progression of embryogenesis. <i>Plant Journal</i> , 2009, 60, 527-538.	5.7	180
10	<i>Arabidopsis</i> Annexin1 Mediates the Radical-Activated Plasma Membrane Ca ²⁺ - and K ⁺ -Permeable Conductance in Root Cells. <i>Plant Cell</i> , 2012, 24, 1522-1533.	6.6	173
11	GUX1 and GUX2 glucuronyltransferases decorate distinct domains of glucuronoxylan with different substitution patterns. <i>Plant Journal</i> , 2013, 74, 423-434.	5.7	169
12	Eudicot plant-specific sphingolipids determine host selectivity of microbial NLP cytolysins. <i>Science</i> , 2017, 358, 1431-1434.	12.6	167
13	<i>Zea mays</i> Annexins Modulate Cytosolic Free Ca ²⁺ and Generate a Ca ²⁺ -Permeable Conductance. <i>Plant Cell</i> , 2009, 21, 479-493.	6.6	145
14	Nanotechnology to advance CRISPR-Cas genetic engineering of plants. <i>Nature Nanotechnology</i> , 2021, 16, 243-250.	31.5	119
15	The Golgi localized bifunctional UDP-rhamnose/UDP-galactose transporter family of <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11563-11568.	7.1	113
16	Golgi-localized STELLO proteins regulate the assembly and trafficking of cellulose synthase complexes in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2016, 7, 11656.	12.8	110
17	Annexin 1 regulates the H ₂ O ₂ -induced calcium signature in <i>Arabidopsis thaliana</i> roots. <i>Plant Journal</i> , 2014, 77, 136-145.	5.7	109
18	Genome Sequence of <i>Striga asiatica</i> Provides Insight into the Evolution of Plant Parasitism. <i>Current Biology</i> , 2019, 29, 3041-3052.e4.	3.9	109

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19	Abnormal Glycosphingolipid Mannosylation Triggers Salicylic Acid-Mediated Responses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1881-1894.	6.6	92
20	Approaches for More Efficient Biological Conversion of Lignocellulosic Feedstocks to Biofuels and Bioproducts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9062-9079.	6.7	89
21	An unusual xylan in <i>Arabidopsis</i> primary cell walls is synthesised by <i>GUX3</i> , <i>IRX9L</i> , <i>IRX10L</i> and <i>IRX14</i> . <i>Plant Journal</i> , 2015, 83, 413-426.	5.7	77
22	Loss of Inositol Phosphorylceramide Sphingolipid Mannosylation Induces Plant Immune Responses and Reduces Cellulose Content in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2016, 28, 2991-3004.	6.6	71
23	Probing the Molecular Architecture of <i>Arabidopsis thaliana</i> Secondary Cell Walls Using Two- and Three-Dimensional ¹³ C Solid State Nuclear Magnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2015, 54, 2335-2345.	2.5	69
24	Sphingolipid biosynthesis modulates plasmodesmal ultrastructure and phloem unloading. <i>Nature Plants</i> , 2019, 5, 604-615.	9.3	65
25	Evidence That GH115 \pm -Glucuronidase Activity, Which Is Required to Degrade Plant Biomass, Is Dependent on Conformational Flexibility. <i>Journal of Biological Chemistry</i> , 2014, 289, 53-64.	3.4	63
26	A grass-specific cellulose-xylan interaction dominates in sorghum secondary cell walls. <i>Nature Communications</i> , 2020, 11, 6081.	12.8	59
27	Accumulation of high-value bioproducts in planta can improve the economics of advanced biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8639-8648.	7.1	57
28	KONJAC1 and 2 Are Key Factors for GDP-Mannose Generation and Affect l-Ascorbic Acid and Glucomannan Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 3397-3409.	6.6	48
29	Oligosaccharide relative quantitation using isotope tagging and normal-phase liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2723-2730.	1.5	45
30	Identification of an additional protein involved in mannan biosynthesis. <i>Plant Journal</i> , 2013, 73, 105-117.	5.7	45
31	Glycosylation of inositol phosphorylceramide sphingolipids is required for normal growth and reproduction in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2017, 89, 278-290.	5.7	43
32	Plant synthetic biology could drive a revolution in biofuels and medicine. <i>Experimental Biology and Medicine</i> , 2019, 244, 323-331.	2.4	41
33	A screening method to identify efficient sgRNAs in <i>Arabidopsis</i> , used in conjunction with cell-specific lignin reduction. <i>Biotechnology for Biofuels</i> , 2019, 12, 130.	6.2	39
34	Overexpression of a rice BAHD acyltransferase gene in switchgrass (<i>Panicum virgatum</i> L.) enhances saccharification. <i>BMC Biotechnology</i> , 2018, 18, 54.	3.3	38
35	Xyloglucan endotransglucosylase-hydrolase30 negatively affects salt tolerance in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 5495-5506.	4.8	38
36	Development and application of a high throughput carbohydrate profiling technique for analyzing plant cell wall polysaccharides and carbohydrate active enzymes. <i>Biotechnology for Biofuels</i> , 2013, 6, 94.	6.2	36

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37	The Three Members of the Arabidopsis Glycosyltransferase Family 92 are Functional Î²-1,4-Galactan Synthases. <i>Plant and Cell Physiology</i> , 2018, 59, 2624-2636.	3.1	35
38	GLUCOSAMINE INOSITOLPHOSPHORYLCERAMIDE TRANSFERASE1 (GINT1) Is a GlcNAc-Containing Glycosylinositol Phosphorylceramide Glycosyltransferase. <i>Plant Physiology</i> , 2018, 177, 938-952.	4.8	35
39	No evidence for transient transformation via pollen magnetofection in several monocot species. <i>Nature Plants</i> , 2020, 6, 1323-1324.	9.3	34
40	Suppression of Arabidopsis <i>GGLT1</i> affects growth by reducing the L-galactose content and borate cross-linking of rhamnogalacturonan. <i>Plant Journal</i> , 2018, 96, 1036-1050.	5.7	33
41	NADPH oxidase involvement in cellular integrity. <i>Planta</i> , 2008, 227, 1415-1418.	3.2	32
42	Bifunctional glycosyltransferases catalyze both extension and termination of pectic galactan oligosaccharides. <i>Plant Journal</i> , 2018, 94, 340-351.	5.7	27
43	Impact of abiotic stress on the regulation of cell wall biosynthesis in <i>Populus trichocarpa</i> . <i>Plant Biotechnology</i> , 2020, 37, 273-283.	1.0	27
44	A Transcriptomic Analysis of Xylan Mutants Does Not Support the Existence of a Secondary Cell Wall Integrity System in Arabidopsis. <i>Frontiers in Plant Science</i> , 2018, 9, 384.	3.6	26
45	Heme-independent soluble and membrane-associated peroxidase activity of a <i>Zea mays</i> annexin preparation. <i>Plant Signaling and Behavior</i> , 2009, 4, 428-430.	2.4	25
46	Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100602.	3.4	24
47	Two members of the <i>DUF579</i> family are responsible for arabinogalactan methylation in Arabidopsis. <i>Plant Direct</i> , 2019, 3, e00117.	1.9	23
48	Agrobacterium-mediated transient transformation of sorghum leaves for accelerating functional genomics and genome editing studies. <i>BMC Research Notes</i> , 2020, 13, 116.	1.4	23
49	Plant single-cell solutions for energy and the environment. <i>Communications Biology</i> , 2021, 4, 962.	4.4	23
50	SpaceHort: redesigning plants to support space exploration and on-earth sustainability. <i>Current Opinion in Biotechnology</i> , 2022, 73, 246-252.	6.6	21
51	Progress and challenges in sorghum biotechnology, a multipurpose feedstock for the bioeconomy. <i>Journal of Experimental Botany</i> , 2022, 73, 646-664.	4.8	21
52	Supply Cost and Life-Cycle Greenhouse Gas Footprint of Dry and Ensiled Biomass Sorghum for Biofuel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15855-15864.	6.7	20
53	Synthesis and Function of Complex Sphingolipid Glycosylation. <i>Trends in Plant Science</i> , 2020, 25, 522-524.	8.8	16
54	Reprogramming sphingolipid glycosylation is required for endosymbiont persistence in <i>Medicago truncatula</i> . <i>Current Biology</i> , 2021, 31, 2374-2385.e4.	3.9	16

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55	The genome of the rice variety LTH provides insight into its universal susceptibility mechanism to worldwide rice blast fungal strains. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1012-1026.	4.1	16
56	Endoribonuclease-Based Two-Component Repressor Systems for Tight Gene Expression Control in Plants. <i>ACS Synthetic Biology</i> , 2017, 6, 806-816.	3.8	15
57	Unlocking the architecture of native plant cell walls via solid-state nuclear magnetic resonance. <i>Methods in Cell Biology</i> , 2020, 160, 121-143.	1.1	13
58	Secondary cell wall characterization in a BY-2 inductive system. <i>Plant Cell, Tissue and Organ Culture</i> , 2013, 115, 223-232.	2.3	11
59	Production of clovamide and its analogues in <i>Saccharomyces cerevisiae</i> and <i>Lactococcus lactis</i> . <i>Letters in Applied Microbiology</i> , 2019, 69, 181-189.	2.2	11
60	Variation in sugarcane biomass composition and enzymatic saccharification of leaves, internodes and roots. <i>Biotechnology for Biofuels</i> , 2020, 13, 201.	6.2	11
61	Voltage, reactive oxygen species and the influx of calcium. <i>Plant Signaling and Behavior</i> , 2008, 3, 698-699.	2.4	9
62	Iron Supplementation Eliminates Antagonistic Interactions Between Root-Associated Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 1742.	3.5	9
63	Identifying transcription factors that reduce wood recalcitrance and improve enzymatic degradation of xylem cell wall in <i>Populus</i> . <i>Scientific Reports</i> , 2020, 10, 22043.	3.3	9
64	Expression of S-adenosylmethionine Hydrolase in Tissues Synthesizing Secondary Cell Walls Alters Specific Methylated Cell Wall Fractions and Improves Biomass Digestibility. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 58.	4.1	8
65	Cell wall O-acetyl and methyl esterification patterns of leaves reflected in atmospheric emission signatures of acetic acid and methanol. <i>PLoS ONE</i> , 2020, 15, e0227591.	2.5	8
66	The TaCslA12 gene expressed in the wheat grain endosperm synthesizes wheat-like mannan when expressed in yeast and <i>Arabidopsis</i> . <i>Plant Science</i> , 2021, 302, 110693.	3.6	8
67	Rhizobacteria Mediate the Phytotoxicity of a Range of Biorefinery-Relevant Compounds. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1911-1922.	4.3	7
68	The <i>Arabidopsis thaliana</i> nucleotide sugar transporter GONST2 is a functional homolog of GONST1. <i>Plant Direct</i> , 2021, 5, e00309.	1.9	7
69	High Temperature Acclimation of Leaf Gas Exchange, Photochemistry, and Metabolomic Profiles in <i>Populus trichocarpa</i> . <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1813-1828.	2.7	7
70	Transcriptional and metabolic changes associated with internode development and reduced cinnamyl alcohol dehydrogenase activity in sorghum. <i>Journal of Experimental Botany</i> , 2022, 73, 6307-6333.	4.8	6
71	Structural Analysis of Cell Wall Polysaccharides Using PACE. <i>Methods in Molecular Biology</i> , 2017, 1544, 223-231.	0.9	5
72	Do Cell Wall Esters Facilitate Forest Response to Climate?. <i>Trends in Plant Science</i> , 2020, 25, 729-732.	8.8	5

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73	Salt stress signalling involves ATP release and Arabidopsis annexin 1. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S193-S194.	1.8	3
74	Structural Characterization of Mannan Cell Wall Polysaccharides in Plants Using PACE. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
75	Are Methanol-Derived Foliar Methyl Acetate Emissions a Tracer of Acetate-Mediated Drought Survival in Plants?. <i>Plants</i> , 2021, 10, 411.	3.5	3
76	Solid-State Nuclear Magnetic Resonance as a Tool to Probe the Impact of Mechanical Preprocessing on the Structure and Arrangement of Plant Cell Wall Polymers. <i>Frontiers in Plant Science</i> , 2021, 12, 766506.	3.6	3
77	Complete Genome Sequence of <i>Agrobacterium</i> sp. Strain 33MFTa1.1, Isolated from <i>Thlaspi arvense</i> Roots. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	1
78	The Mechanics and Biology of Plant Cell Walls: Resilience and Sustainability for Our Future Society. <i>Plant and Cell Physiology</i> , 2021, 62, 1787-1790.	3.1	1
79	Enrichment of the Plant Cytosolic Fraction. <i>Methods in Molecular Biology</i> , 2017, 1511, 213-232.	0.9	0
80	Editorial Feature: Meet the PCP Editor”Jenny Mortimer. <i>Plant and Cell Physiology</i> , 2021, 62, 747-748.	3.1	0
81	Reimagining Lignin for the Biorefinery. <i>Plant and Cell Physiology</i> , 2022, , .	3.1	0
82	Title is missing!. , 2020, 15, e0227591.		0
83	Title is missing!. , 2020, 15, e0227591.		0
84	Title is missing!. , 2020, 15, e0227591.		0
85	Title is missing!. , 2020, 15, e0227591.		0