

# Marie Baucher

## List of Publications by Year in descending order

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49  
papers

6,817  
citations

304743

22  
h-index

214800

47  
g-index

49  
all docs

49  
docs citations

49  
times ranked

8546  
citing authors

#	ARTICLE	IF	CITATIONS
1	LIGNINBIOSYNTHESIS. Annual Review of Plant Biology, 2003, 54, 519-546.	18.7	3,709
2	Unravelling cell wall formation in the woody dicot stem. Plant Molecular Biology, 2001, 47, 239-274.	3.9	370
3	Identification of Catechin as One of the Flavonoids from <i>Combretum albiflorum</i> Bark Extract That Reduces the Production of Quorum-Sensing-Controlled Virulence Factors in <i>Pseudomonas aeruginosa</i> PAO1. Applied and Environmental Microbiology, 2010, 76, 243-253.	3.1	288
4	Lignin: Genetic Engineering and Impact on Pulping. Critical Reviews in Biochemistry and Molecular Biology, 2003, 38, 305-350.	5.2	276
5	Genome-wide identification of NBS resistance genes in <i>Populus trichocarpa</i> . Plant Molecular Biology, 2008, 66, 619-636.	3.9	247
6	Biosynthesis and Genetic Engineering of Lignin. Critical Reviews in Plant Sciences, 1998, 17, 125-197.	5.7	227
7	The flavanone naringenin reduces the production of quorum sensing-controlled virulence factors in <i>Pseudomonas aeruginosa</i> PAO1. Microbiology (United Kingdom), 2011, 157, 2120-2132.	1.8	227
8	A novel lignin in poplar trees with a reduced caffeic acid/5-hydroxyferulic acid <i>O</i> -methyltransferase activity. Plant Journal, 1995, 8, 855-864.	5.7	221
9	Down-regulation of cinnamyl alcohol dehydrogenase in transgenic alfalfa ( <i>Medicago sativa</i> L.) and the effect on lignin composition and digestibility. Plant Molecular Biology, 1999, 39, 437-447.	3.9	215
10	Biosynthesis and Genetic Engineering of Lignin. Critical Reviews in Plant Sciences, 1998, 17, 125-197.	5.7	201
11	From primary to secondary growth: origin and development of the vascular system. Journal of Experimental Botany, 2007, 58, 3485-3501.	4.8	88
12	A role for the miR396/GRF network in specification of organ type during flower development, as supported by ectopic expression of <i>Populus trichocarpa</i> miR396 in transgenic tobacco. Plant Biology, 2013, 15, 892-898.	3.8	70
13	Analysis of Genome Sequences from Plant Pathogenic <i>Rhodococcus</i> Reveals Genetic Novelty in Virulence Loci. PLoS ONE, 2014, 9, e101996.	2.5	54
14	Biotechnology in trees: Towards improved paper pulping by lignin engineering. Euphytica, 2001, 118, 185-195.	1.2	45
15	Molecular changes associated with the setting up of secondary growth in aspen. Journal of Experimental Botany, 2005, 56, 2211-2227.	4.8	43
16	The tobacco Ntann12 gene, encoding an annexin, is induced upon <i>Rhodococcus fascians</i> infection and during leafy gall development. Molecular Plant Pathology, 2007, 8, 185-194.	4.2	43
17	Ectopic expression of PtaRHE1, encoding a poplar RING-H2 protein with E3 ligase activity, alters plant development and induces defence-related responses. Journal of Experimental Botany, 2010, 61, 297-310.	4.8	39
18	Expression of a poplar cDNA encoding a ferulate-5-hydroxylase/coniferaldehyde 5-hydroxylase increases S lignin deposition in <i>Arabidopsis thaliana</i> . Plant Physiology and Biochemistry, 2002, 40, 1087-1096.	5.8	35

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19	Insight into plant annexin function. <i>Plant Signaling and Behavior</i> , 2012, 7, 524-528.	2.4	35
20	A rapid and quantitative safraninâ€based fluorescent microscopy method to evaluate cell wall lignification. <i>Plant Journal</i> , 2020, 102, 1074-1089.	5.7	32
21	You Want it Sweeter: How Glycosylation Affects Plant Response to Oxidative Stress. <i>Frontiers in Plant Science</i> , 2020, 11, 571399.	3.6	32
22	Ntann12 annexin expression is induced by auxin in tobacco roots. <i>Journal of Experimental Botany</i> , 2011, 62, 4055-4065.	4.8	30
23	A Molecular Blueprint of Lignin Repression. <i>Trends in Plant Science</i> , 2019, 24, 1052-1064.	8.8	25
24	Characterization of the UDP-glycosyltransferase UGT72 Family in Poplar and Identification of Genes Involved in the Glycosylation of Monolignols. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5018.	4.1	25
25	One-step purification and characterization of a lignin-specific O-methyltransferase from poplar. <i>Gene</i> , 1993, 133, 213-217.	2.2	21
26	Unravelling cell wall formation in the woody dicot stem. , 2001, , 239-274.		21
27	European discussion forum on transgenic tree biosafety. <i>Nature Biotechnology</i> , 2012, 30, 37-38.	17.5	21
28	Pta<sc>RHE</sc>1, a <i>Populus tremula</i>—<i>Populus alba</i> <sc>RING</sc>â€H2 protein of the <sc>ATL</sc> family, has a regulatory role in secondary phloem fibre development. <i>Plant Journal</i> , 2015, 82, 978-990.	5.7	17
29	UDP-GLYCOSYLTRANSFERASE 72E3 Plays a Role in Lignification of Secondary Cell Walls in Arabidopsis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6094.	4.1	16
30	Virulence quenching with a prenylated isoflavanone renders the Malagasy legume <i>Dalbergia pervillei</i> resistant to <i>Rhodococcus fascians</i>. <i>Environmental Microbiology</i> , 2011, 13, 1236-1252.	3.8	14
31	UGT72, a Major Glycosyltransferase Family for Flavonoid and Monolignol Homeostasis in Plants. <i>Biology</i> , 2022, 11, 441.	2.8	14
32	Applications of molecular genetics for biosynthesis of novel lignins. <i>Polymer Degradation and Stability</i> , 1998, 59, 47-52.	5.8	10
33	Title is missing!. <i>European Journal of Plant Pathology</i> , 2003, 109, 327-330.	1.7	10
34	<i>In vitro</i> micrografting of apical and axillary buds of cacao. <i>Journal of Horticultural Science and Biotechnology</i> , 2017, 92, 25-30.	1.9	10
35	Molecular Changes Concomitant with Vascular System Development in Mature Galls Induced by Root-Knot Nematodes in the Model Tree Host <i>Populus tremula</i> — <i>P. alba</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 406.	4.1	10
36	Poplarâ€“Root Knot Nematode Interaction: A Model for Perennial Woody Species. <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 560-572.	2.6	9

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37	Response of olive tree ( <i>Olea europaea</i> L.cv. Chemlali) to infection with soilborne fungi. <i>Journal of Plant Diseases and Protection</i> , 2017, 124, 153-162.	2.9	9
38	Alterations in the phenylpropanoid pathway affect poplar ability for ectomycorrhizal colonisation and susceptibility to root-knot nematodes. <i>Mycorrhiza</i> , 2020, 30, 555-566.	2.8	9
39	Lignin: Genetic Engineering and Impact on Pulping. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2003, 38, 305-350.	5.2	9
40	Title is missing!. <i>Plant Growth Regulation</i> , 2003, 40, 229-237.	3.4	8
41	Lignin Biosynthesis in Poplar: Genetic Engineering and Effects on Kraft Pulping. <i>Progress in Biotechnology</i> , 2001, 18, 187-194.	0.2	7
42	Leaf necrosis resulting from downregulation of poplar glycosyltransferase <i>UGT72A2</i> . <i>Tree Physiology</i> , 2022, 42, 1084-1099.	3.1	6
43	<i>Rhodococcus fascians</i> infection accelerates progression of tobacco BY-2 cells into mitosis through rapid changes in plant gene expression. <i>New Phytologist</i> , 2007, 175, 140-154.	7.3	5
44	Metabolic Shift in the Phytopathogen <i>Rhodococcus fascians</i> in Response to Cell-Free Extract of Infected Tobacco Plant Tissues. <i>Current Microbiology</i> , 2009, 58, 483-487.	2.2	4
45	<i>Escherichia coli</i> MazEF Toxin-Antitoxin System as a Tool to Target Cell Ablation in Plants. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 277-283.	1.0	4
46	The Xanthophyll Carotenoid Lutein Reduces the Invasive Potential of <i>Pseudomonas aeruginosa</i> and Increases Its Susceptibility to Tobramycin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7199.	4.1	3
47	Does PtaRHE1, a poplar RING-H2 protein, play a role in water conduction through ABA signaling?. <i>Plant Signaling and Behavior</i> , 2014, 9, e27611.	2.4	1
48	Lignin: an innovative, complex, and highly flexible plant material/component. , 2021, , 35-60.		1
49	Glycobiology of the plant secondary cell wall dynamics. <i>Advances in Botanical Research</i> , 2022, , .	1.1	1