

Richard Meilan

List of Publications by Year in descending order

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72
papers

5,172
citations

109321

35
h-index

91884

69
g-index

75
all docs

75
docs citations

75
times ranked

5840
citing authors

#	ARTICLE	IF	CITATIONS
1	Formaldehyde stabilization facilitates lignin monomer production during biomass depolymerization. <i>Science</i> , 2016, 354, 329-333.	12.6	944
2	A synergistic biorefinery based on catalytic conversion of lignin prior to cellulose starting from lignocellulosic biomass. <i>Green Chemistry</i> , 2015, 17, 1492-1499.	9.0	370
3	Activation Tagging of a Dominant Gibberellin Catabolism Gene (GA 2-oxidase) from Poplar That Regulates Tree Stature. <i>Plant Physiology</i> , 2003, 132, 1283-1291.	4.8	244
4	Diverse effects of overexpression of LEAFY and PTLF, a poplar (<i>Populus</i>) homolog of LEAFY/FLORICAULA, in transgenic poplar and Arabidopsis. <i>Plant Journal</i> , 2000, 22, 235-245.	5.7	212
5	<i>Populus</i> CEN/TFL1 regulates first onset of flowering, axillary meristem identity and dormancy release in <i>Populus</i> . <i>Plant Journal</i> , 2010, 62, 674-688.	5.7	197
6	Lignin monomer composition affects Arabidopsis cell-wall degradability after liquid hot water pretreatment. <i>Biotechnology for Biofuels</i> , 2010, 3, 27.	6.2	178
7	Enhanced phytoremediation of volatile environmental pollutants with transgenic trees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16816-16821.	7.1	172
8	An <i>Agrobacterium tumefaciens</i> transformation protocol effective on a variety of cottonwood hybrids (genus <i>Populus</i>). <i>Plant Cell Reports</i> , 2000, 19, 315-320.	5.6	159
9	Loosening lignin's grip on biofuel production. <i>Nature Biotechnology</i> , 2007, 25, 746-748.	17.5	155
10	Overexpression of Cytosolic Ascorbate Peroxidase in Tomato Confers Tolerance to Chilling and Salt Stress. <i>Journal of the American Society for Horticultural Science</i> , 2005, 130, 167-173.	1.0	149
11	Tree genetic engineering and applications to sustainable forestry and biomass production. <i>Trends in Biotechnology</i> , 2011, 29, 9-17.	9.3	145
12	Molecular and physiological responses to abiotic stress in forest trees and their relevance to tree improvement. <i>Tree Physiology</i> , 2014, 34, 1181-1198.	3.1	144
13	Transgenic modification of <i>gai</i> or <i>rgl1</i> causes dwarfing and alters gibberellins, root growth, and metabolite profiles in <i>Populus</i> . <i>Planta</i> , 2006, 224, 288-299.	3.2	130
14	Revisiting alkaline aerobic lignin oxidation. <i>Green Chemistry</i> , 2018, 20, 3828-3844.	9.0	114
15	Accelerating the domestication of forest trees in a changing world. <i>Trends in Plant Science</i> , 2012, 17, 64-72.	8.8	109
16	Floral induction in woody angiosperms. <i>New Forests</i> , 1997, 14, 179-202.	1.7	99
17	Identification, characterization of an AP2/ERF transcription factor that promotes adventitious, lateral root formation in <i>Populus</i> . <i>Planta</i> , 2013, 238, 271-282.	3.2	92
18	Cytokinins in Plant Pathogenic Bacteria and Developing Cereal Grains. <i>Functional Plant Biology</i> , 1993, 20, 621.	2.1	81

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19	Ten lessons from 15 years of transgenic <i>Populus</i> research. <i>Forestry</i> , 2004, 77, 455-465.	2.3	77
20	Alcohol-inducible gene expression in transgenic <i>Populus</i> . <i>Plant Cell Reports</i> , 2006, 25, 660-667.	5.6	67
21	The CP4 transgene provides high levels of tolerance to Roundup® herbicide in field-grown hybrid poplars. <i>Canadian Journal of Forest Research</i> , 2002, 32, 967-976.	1.7	66
22	Genetic transformation: a powerful tool for dissection of adaptive traits in trees. <i>New Phytologist</i> , 2005, 167, 9-18.	7.3	65
23	Stability of transgenes in trees: expression of two reporter genes in poplar over three field seasons. <i>Tree Physiology</i> , 2008, 29, 299-312.	3.1	55
24	Transgenic <i>Populus</i> Trees for Forest Products, Bioenergy, and Functional Genomics. <i>Critical Reviews in Plant Sciences</i> , 2011, 30, 415-434.	5.7	52
25	Gene and Enhancer Trap Tagging of Vascular-Expressed Genes in Poplar Trees. <i>Plant Physiology</i> , 2004, 134, 1742-1751.	4.8	48
26	Field trial detects incomplete barstar attenuation of vegetative cytotoxicity in <i>Populus</i> trees containing a poplar LEAFY promoter::barnase sterility transgene. <i>Molecular Breeding</i> , 2006, 19, 69-85.	2.1	48
27	Overexpression of Constans Homologs CO1 and CO2 Fails to Alter Normal Reproductive Onset and Fall Bud Set in Woody Perennial Poplar. <i>PLoS ONE</i> , 2012, 7, e45448.	2.5	48
28	Containment of transgenic trees by suppression of LEAFY. <i>Nature Biotechnology</i> , 2016, 34, 918-922.	17.5	46
29	Genetically modified poplars in context. <i>Forestry Chronicle</i> , 2001, 77, 271-279.	0.6	45
30	Poplar (<i>Populus</i> spp.). , 2006, 344, 143-151.		43
31	Constitutive expression of the Corngrass1 microRNA in poplar affects plant architecture and stem lignin content and composition. <i>Biomass and Bioenergy</i> , 2013, 54, 312-321.	5.7	43
32	Title is missing!. <i>Molecular Breeding</i> , 2003, 12, 119-132.	2.1	40
33	In situ micro-spectroscopic investigation of lignin in poplar cell walls pretreated by maleic acid. <i>Biotechnology for Biofuels</i> , 2015, 8, 126.	6.2	40
34	Transfer RNA Is the Source of Extracellular Isopentenyladenine in a Ti-Plasmidless Strain of <i>Agrobacterium tumefaciens</i> . <i>Plant Physiology</i> , 1996, 110, 431-438.	4.8	39
35	Activation tagging is an effective gene tagging system in <i>Populus</i> . <i>Tree Genetics and Genomes</i> , 2011, 7, 91-101.	1.6	38
36	Efficient and stable transgene suppression via RNAi in field-grown poplars. <i>Transgenic Research</i> , 2008, 17, 679-694.	2.4	37

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37	Overcoming cellulose recalcitrance in woody biomass for the lignin-first biorefinery. <i>Biotechnology for Biofuels</i> , 2019, 12, 171.	6.2	37
38	Improving disease resistance of butternut (<i>Juglans cinerea</i>), a threatened fine hardwood: a case for single-tree selection through genetic improvement and deployment. <i>Tree Physiology</i> , 2006, 26, 121-128.	3.1	35
39	Production of Cytokinins by <i>Erwinia herbicola</i> pv. <i>gypsophila</i> and Isolation of a Locus Conferring Cytokinin Biosynthesis. <i>Molecular Plant-Microbe Interactions</i> , 1995, 8, 114.	2.6	31
40	Ecological and population genetics research imperatives for transgenic trees. <i>Tree Genetics and Genomes</i> , 2007, 3, 119-133.	1.6	30
41	Matrix attachment region elements have small and variable effects on transgene expression and stability in field-grown <i>Populus</i> . <i>Plant Biotechnology Journal</i> , 2008, 6, 887-896.	8.3	30
42	Bt-Cry3Aa transgene expression reduces insect damage and improves growth in field-grown hybrid poplar. <i>Canadian Journal of Forest Research</i> , 2014, 44, 28-35.	1.7	29
43	An early-flowering genotype of <i>Populus</i> . <i>Journal of Plant Biology</i> , 2004, 47, 52-56.	2.1	28
44	Stability of Herbicide Resistance over 8 Years of Coppice in Field-Grown, Genetically Engineered Poplars. <i>Western Journal of Applied Forestry</i> , 2008, 23, 89-93.	0.5	28
45	Promoting Ethically Responsible Use of Agricultural Biotechnology. <i>Trends in Plant Science</i> , 2021, 26, 546-559.	8.8	25
46	Rhamnogalacturonan is a determinant of cell-cell adhesion in poplar wood. <i>Plant Biotechnology Journal</i> , 2020, 18, 1027-1040.	8.3	24
47	Transgenic sterility in <i>Populus</i> : expression properties of the poplar PTLF, <i>Agrobacterium</i> NOS and two minimal 35S promoters in vegetative tissues. <i>Tree Physiology</i> , 2006, 26, 401-410.	3.1	22
48	A tapetal ablation transgene induces stable male sterility and slows field growth in <i>Populus</i> . <i>Tree Genetics and Genomes</i> , 2014, 10, 1583-1593.	1.6	21
49	Bacterio-opsin gene overexpression fails to elevate fungal disease resistance in transgenic poplar (<i>Populus</i>). <i>Canadian Journal of Forest Research</i> , 2001, 31, 268-275.	1.7	19
50	A KNAT3-like homeobox gene from <i>Juglans nigra</i> L., JnKNAT3-like, highly expressed during heartwood formation. <i>Plant Cell Reports</i> , 2009, 28, 1717-1724.	5.6	18
51	Assessment of <i>Populus</i> wood chemistry following the introduction of a Bt toxin gene. <i>Tree Physiology</i> , 2006, 26, 557-564.	3.1	17
52	BIG LEAF is a regulator of organ size and adventitious root formation in poplar. <i>PLoS ONE</i> , 2017, 12, e0180527.	2.5	17
53	Enhancer trapping in woody plants: Isolation of the ET304 gene encoding a putative AT-hook motif transcription factor and characterization of the expression patterns conferred by its promoter in transgenic <i>Populus</i> and <i>Arabidopsis</i> . <i>Plant Science</i> , 2006, 171, 206-216.	3.6	15
54	A Cross-species Transcriptional Profile Analysis of Heartwood Formation in Black Walnut. <i>Plant Molecular Biology Reporter</i> , 2010, 28, 222-230.	1.8	13

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55	Improved growth and weed control of glyphosate-tolerant poplars. <i>New Forests</i> , 2016, 47, 653-667.	1.7	13
56	Modification of Flowering in Transgenic Trees. <i>Progress in Biotechnology</i> , 2001, 18, 247-256.	0.2	12
57	PHOTOPERIOD RESPONSE 1 (PHOR1)-like Genes Regulate Shoot/root Growth, Starch Accumulation, and Wood Formation in Populus. <i>Journal of Experimental Botany</i> , 2012, 63, 5623-5634.	4.8	11
58	Figured grain in aspen is heritable and not affected by graft-transmissible signals. <i>Trees - Structure and Function</i> , 2013, 27, 973-983.	1.9	10
59	Stochastic techno-economic analysis of electricity produced from poplar plantations in Indiana. <i>Renewable Energy</i> , 2020, 149, 189-197.	8.9	9
60	Bacterio-opsin gene overexpression fails to elevate fungal disease resistance in transgenic poplar (<i>Populus</i>). <i>Canadian Journal of Forest Research</i> , 2001, 31, 268-275.	1.7	7
61	China-U.S. workshop on biotechnology of bioenergy plants. <i>Ecotoxicology</i> , 2010, 19, 1-3.	2.4	6
62	Roles of JnRAP2.6-like from the Transition Zone of Black Walnut in Hormone Signaling. <i>PLoS ONE</i> , 2013, 8, e75857.	2.5	6
63	Assessment of risk, extinction, and threats to Himalayan yew in Pakistan. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 762-767.	3.8	6
64	Identification of the cytokinins in red pine seedlings. <i>Plant Growth Regulation</i> , 1993, 13, 169-178.	3.4	5
65	Challenges to Commercial Use of Transgenic Plants. <i>Journal of Crop Improvement</i> , 2006, 18, 433-450.	1.7	5
66	Genetic Modification of Lignin in Hybrid Poplar (<i>Populus alba</i> – <i>Populus tremula</i>) Does Not Substantially Alter Plant Defense or Arthropod Communities. <i>Journal of Insect Science</i> , 2017, 17, .	1.5	4
67	Fast Determination of the Lignin Monomer Compositions of Genetic Variants of Poplar via Fast Pyrolysis/Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2546-2551.	2.8	4
68	Protecting Innovation: Genomics-Based Intellectual Property for the Development of Feedstock for Second-Generation Biofuels. <i>Recent Patents on DNA & Gene Sequences</i> , 2010, 4, 94-105.	0.7	3
69	Intellectual property rights of biotechnologically improved plants. , 2012, , 525-539.		1
70	The effect of a novel herbicide adjuvant in treating Amur honeysuckle (<i>Lonicera maackii</i>). <i>Invasive Plant Science and Management</i> , 2022, 15, 81-88.	1.1	1
71	635 Stability of Herbicide Resistance and GUS Expression in Transgenic Hybrid Poplars during Several Years of Field Trials and Vegetative Propagation. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1999, 34, 557B-557.	1.0	0
72	Tailoring Biomass for Biochemical, Chemical or Thermochemical Catalytic Conversion. <i>FASEB Journal</i> , 2015, 29, 485.3.	0.5	0