Claire I Halpin

List of Publications by Year
in descending order

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55 papers	5,108 citations	126907 33 h-index	182427 51 g-index
56 all docs	56 docs citations	56 times ranked	5668 citing authors

#	Article	IF	Citations
1	Downregulation of Barley Regulator of Telomere Elongation Helicase 1 Alters the Distribution of Meiotic Crossovers. Frontiers in Plant Science, 2021, 12, 745070.	3.6	2
2	Stimulation of homologous recombination in plants expressing heterologous recombinases. BMC Plant Biology, 2020, 20, 336.	3.6	11
3	Association mapping identifies quantitative trait loci (QTL) for digestibility in rice straw. Biotechnology for Biofuels, 2020, 13, 165.	6.2	7
4	Barley sodium content is regulated by natural variants of the Na+ transporter HvHKT1;5. Communications Biology, 2020, 3, 258.	4.4	21
5	<scp>RNA</scp>iâ€suppression of barley caffeic acid Oâ€methyltransferase modifies lignin despite redundancy in the gene family. Plant Biotechnology Journal, 2019, 17, 594-607.	8.3	37
6	A Comparison of Mainstream Genotyping Platforms for the Evaluation and Use of Barley Genetic Resources. Frontiers in Plant Science, 2019, 10, 544.	3.6	66
7	desynaptic5 carries a spontaneous semi-dominant mutation affecting Disrupted Meiotic cDNA 1 in barley. Journal of Experimental Botany, 2019, 70, 2683-2698.	4.8	24
8	Lignin engineering to improve saccharification and digestibility in grasses. Current Opinion in Biotechnology, 2019, 56, 223-229.	6.6	56
9	BaRTv1.0: an improved barley reference transcript dataset to determine accurate changes in the barley transcriptome using RNA-seq. BMC Genomics, 2019, 20, 968.	2.8	50
10	Genomic Selection in Multi-environment Crop Trials. G3: Genes, Genomes, Genetics, 2016, 6, 1313-1326.	1.8	79
11	A spontaneous mutation in MutLâ€Homolog 3 (Hv<scp>MLH</scp>3) affects synapsis and crossover resolution in the barley desynaptic mutant des10. New Phytologist, 2016, 212, 693-707.	7.3	44
12	Plant lignin content altered by soil microbial community. New Phytologist, 2015, 206, 166-174.	7.3	40
13	Evolutionary Dynamics of the Cellulose Synthase Gene Superfamily in Grasses. Plant Physiology, 2015, 168, 968-983.	4.8	55
14	The Synaptonemal Complex Protein ZYP1 Is Required for Imposition of Meiotic Crossovers in Barley. Plant Cell, 2014, 26, 729-740.	6.6	88
15	A genome wide association scan for (1,3;1,4)-Î²-glucan content in the grain of contemporary 2-row Spring and Winter barleys. BMC Genomics, 2014, 15, 907.	2.8	57
16	The Barley Genome Sequence Assembly Reveals Three Additional Members of the CslF (1,3;1,4)-Î²-Glucan Synthase Gene Family. PLoS ONE, 2014, 9, e90888.	2.5	39
17	Caffeoyl Shikimate Esterase (CSE) Is an Enzyme in the Lignin Biosynthetic Pathway in Arabidopsis. Science, 2013, 341, 1103-1106.	12.6	432
18	Identification of crop cultivars with consistently high lignocellulosic sugar release requires the use of appropriate statistical design and modelling. Biotechnology for Biofuels, 2013, 6, 185.	6.2	15

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19	Cell Biology: Up Against the Wall. Current Biology, 2013, 23, R1048-R1050.	3.9	7
20	Editorâ€™s Choice: Evaluating the Potential for Adverse Interactions within Genetically Engineered Breeding Stacks. Plant Physiology, 2013, 161, 1587-1594.	4.8	40
21	Variation in the interaction between alleles of HvAPETALA2 and microRNA172 determines the density of grains on the barley inflorescence. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16675-16680.	7.1	121
22	Editorâ€™s Choice: Crop Genome Plasticity and Its Relevance to Food and Feed Safety of Genetically Engineered Breeding Stacks. Plant Physiology, 2012, 160, 1842-1853.	4.8	68
23	A Systems Biology View of Responses to Lignin Biosynthesis Perturbations inArabidopsisÂ. Plant Cell, 2012, 24, 3506-3529.	6.6	321
24	Spatiotemporal Asymmetry of the Meiotic Program Underlies the Predominantly Distal Distribution of Meiotic Crossovers in Barley. Plant Cell, 2012, 24, 4096-4109.	6.6	185
25	Syringyl Lignin Is Unaltered by Severe Sinapyl Alcohol Dehydrogenase Suppression in Tobacco. Plant Cell, 2011, 23, 4492-4506.	6.6	34
26	Automated saccharification assay for determination of digestibility in plant materials. Biotechnology for Biofuels, 2010, 3, 23.	6.2	77
27	Below-ground herbivory and root toughness: a potential model system using lignin-modified tobacco. Physiological Entomology, 2010, 35, 186-191.	1.5	41
28	A novel cleavage site within the potato leafroll virus P1 polyprotein. Journal of General Virology, 2007, 88, 1620-1623.	2.9	13
29	Genetically modified lignin below ground. Nature Biotechnology, 2007, 25, 168-169.	17.5	15
30	Molecular phenotyping of ligninâ€modified tobacco reveals associated changes in cellâ€wall metabolism, primary metabolism, stress metabolism and photorespiration. Plant Journal, 2007, 52, 263-285.	5.7	161
31	Ecological impacts of trees with modified lignin. Tree Genetics and Genomes, 2007, 3, 101-110.	1.6	46
32	Lignin manipulation for fibre improvement. , 2007, , 129-153.		2
33	Microbial community structure in soils with decomposing residues from plants with genetic modifications to lignin biosynthesis. FEMS Microbiology Letters, 2006, 263, 68-75.	1.8	23
34	E unum pluribus: multiple proteins from a self-processing polyprotein. Trends in Biotechnology, 2006, 24, 68-75.	9.3	332
35	Gene stacking in transgenic plants - the challenge for 21st century plant biotechnology. Plant Biotechnology Journal, 2005, 3, 141-155.	8.3	367
36	Coordinate Expression and Independent Subcellular Targeting of Multiple Proteins from a Single Transgene. Plant Physiology, 2004, 135, 16-24.	4.8	68

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37	Re-designing Lignin for Industry and Agriculture. Biotechnology and Genetic Engineering Reviews, 2004, 21, 229-248.	6.2	17
38	Investigating and Manipulating Lignin Biosynthesis in the Postgenomic Era. Advances in Botanical Research, 2004, 41, 63-106.	1.1	28
39	Stacking transgenes in forest trees. Trends in Plant Science, 2003, 8, 363-365.	8.8	45
40	Lignin: Genetic Engineering and Impact on Pulping. Critical Reviews in Biochemistry and Molecular Biology, 2003, 38, 305-350.	5.2	276
41	Lignin: Genetic Engineering and Impact on Pulping. Critical Reviews in Biochemistry and Molecular Biology, 2003, 38, 305-350.	5.2	9
42	Simultaneous Suppression of Multiple Genes by Single Transgenes. Down-Regulation of Three Unrelated Lignin Biosynthetic Genes in Tobacco. Plant Physiology, 2002, 128, 844-853.	4.8	68
43	Field and pulping performances of transgenic trees with altered lignification. Nature Biotechnology, 2002, 20, 607-612.	17.5	350
44	Improved paper pulp from plants with suppressed cinnamoyl-CoA reductase or cinnamyl alcohol dehydrogenase. Transgenic Research, 2002, 11, 495-503.	2.4	81
45	Strong decrease in lignin content without significant alteration of plant development is induced by simultaneous down-regulation of cinnamoyl CoA reductase (CCR) and cinnamyl alcohol dehydrogenase (CAD) in tobacco plants. Plant Journal, 2001, 28, 257-270.	5.7	252
46	Enabling technologies for manipulating multiple genes on complex pathways. Plant Molecular Biology, 2001, 47, 295-310.	3.9	66
47	Enabling technologies for manipulating multiple genes on complex pathways. , 2001, , 295-310.		22
48	Self-processing 2A-polyproteins - a system for co-ordinate expression of multiple proteins in transgenic plants. Plant Journal, 1999, 17, 453-459.	5.7	131
49	Effect of down-regulation of cinnamyl alcohol dehydrogenase on cell wall composition and on degradability of tobacco stems. , 1998, 76, 505-514.		54
50	Brown-midrib maize (bm1) - a mutation affecting the cinnamyl alcohol dehydrogenase gene. Plant Journal, 1998, 14, 545-553.	5.7	271
51	Cloning and sequence analysis of laccase-encoding cDNA clones from tobacco. Gene, 1996, 178, 205-207.	2.2	41
52	Manipulation of lignin quality by downregulation of cinnamyl alcohol dehydrogenase. Plant Journal, 1994, 6, 339-350.	5.7	321
53	Different routes for integral protein insertion into Ricinus communis protein-body and glyoxysome membranes. Planta, 1989, 179, 331-339.	3.2	7
54	Purification and characterization of the D2 cell adhesion protein: Analysis of the postnatally regulated polymorphic forms and their cellular distribution. Neurochemical Research, 1986, 11, 1333-1346.	3.3	17

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55	Transgenic plants with improved energy characteristics. , 0, , 279-293.		5