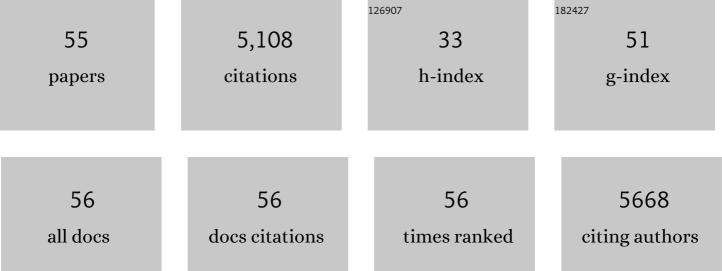
Claire I Halpin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Caffeoyl Shikimate Esterase (CSE) Is an Enzyme in the Lignin Biosynthetic Pathway in <i>Arabidopsis</i> Science, 2013, 341, 1103-1106.	12.6	432
2	Gene stacking in transgenic plants - the challenge for 21st century plant biotechnology. Plant Biotechnology Journal, 2005, 3, 141-155.	8.3	367
3	Field and pulping performances of transgenic trees with altered lignification. Nature Biotechnology, 2002, 20, 607-612.	17.5	350
4	E unum pluribus: multiple proteins from a self-processing polyprotein. Trends in Biotechnology, 2006, 24, 68-75.	9.3	332
5	Manipulation of lignin quality by downregulation of cinnamyl alcohol dehydrogenase. Plant Journal, 1994, 6, 339-350.	5.7	321
6	A Systems Biology View of Responses to Lignin Biosynthesis Perturbations in <i>Arabidopsis </i> Â. Plant Cell, 2012, 24, 3506-3529.	6.6	321
7	Lignin: Genetic Engineering and Impact on Pulping. Critical Reviews in Biochemistry and Molecular Biology, 2003, 38, 305-350.	5 . 2	276
8	Brown-midrib maize ($bm1$) - a mutation affecting the cinnamyl alcohol dehydrogenase gene. Plant Journal, 1998, 14, 545-553.	5.7	271
9	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
10	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
11	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
12	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
13	Variation in the interaction between alleles of <i>HvAPETALA2</i> 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
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	Improved paper pulp from plants with suppressed cinnamoyl-CoA reductase or cinnamyl alcohol dehydrogenase. Transgenic Research, 2002, 11, 495-503.	2.4	81
16	Genomic Selection in Multi-environment Crop Trials. G3: Genes, Genomes, Genetics, 2016, 6, 1313-1326.	1.8	79
17	Automated saccharification assay for determination of digestibility in plant materials. Biotechnology for Biofuels, 2010, 3, 23.	6.2	77
18	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

#	Article	IF	Citations
19	Coordinate Expression and Independent Subcellular Targeting of Multiple Proteins from a Single Transgene. Plant Physiology, 2004, 135, 16-24.	4.8	68
20	Editor'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
21	Enabling technologies for manipulating multiple genes on complex pathways. Plant Molecular Biology, 2001, 47, 295-310.	3.9	66
22	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
23	A genome wide association scan for $(1,3;1,4)$ - \hat{l}^2 -glucan content in the grain of contemporary 2-row Spring and Winter barleys. BMC Genomics, 2014, 15, 907.	2.8	57
24	Lignin engineering to improve saccharification and digestibility in grasses. Current Opinion in Biotechnology, 2019, 56, 223-229.	6.6	56
25	Evolutionary Dynamics of the Cellulose Synthase Gene Superfamily in Grasses. Plant Physiology, 2015, 168, 968-983.	4.8	55
26	Effect of down-regulation of cinnamyl alcohol dehydrogenase on cell wall composition and on degradability of tobacco stems., 1998, 76, 505-514.		54
27	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
28	Ecological impacts of trees with modified lignin. Tree Genetics and Genomes, 2007, 3, 101-110.	1.6	46
29	Stacking transgenes in forest trees. Trends in Plant Science, 2003, 8, 363-365.	8.8	45
30	A spontaneous mutation in MutLâ€Homolog 3 (Hv <scp>MLH</scp> 3) affects synapsis and crossover resolution in the barley desynaptic mutant <i>des10</i> i>. New Phytologist, 2016, 212, 693-707.	7.3	44
31	Cloning and sequence analysis of laccase-encoding cDNA clones from tobacco. Gene, 1996, 178, 205-207.	2.2	41
32	Below-ground herbivory and root toughness: a potential model system using lignin-modified tobacco. Physiological Entomology, 2010, 35, 186-191.	1.5	41
33	Editor's Choice: Evaluating the Potential for Adverse Interactions within Genetically Engineered Breeding Stacks. Plant Physiology, 2013, 161, 1587-1594.	4.8	40
34	Plant lignin content altered by soil microbial community. New Phytologist, 2015, 206, 166-174.	7.3	40
35	The Barley Genome Sequence Assembly Reveals Three Additional Members of the CsIF $(1,3;1,4)$ - \hat{l}^2 -Glucan Synthase Gene Family. PLoS ONE, 2014, 9, e90888.	2.5	39
36	<scp>RNA</scp> iâ€suppression of barley caffeic acid <i>O</i> â€methyltransferase modifies lignin despite redundancy in the gene family. Plant Biotechnology Journal, 2019, 17, 594-607.	8.3	37

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37	Syringyl Lignin Is Unaltered by Severe Sinapyl Alcohol Dehydrogenase Suppression in Tobacco. Plant Cell, 2011, 23, 4492-4506.	6.6	34
38	Investigating and Manipulating Lignin Biosynthesis in the Postgenomic Era. Advances in Botanical Research, 2004, 41, 63-106.	1.1	28
39	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
40	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
41	Enabling technologies for manipulating multiple genes on complex pathways. , 2001, , 295-310.		22
42	Barley sodium content is regulated by natural variants of the Na+ transporter HvHKT1;5. Communications Biology, 2020, 3, 258.	4.4	21
43	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
44	Re-designing Lignin for Industry and Agriculture. Biotechnology and Genetic Engineering Reviews, 2004, 21, 229-248.	6.2	17
45	Genetically modified lignin below ground. Nature Biotechnology, 2007, 25, 168-169.	17.5	15
46	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
47	A novel cleavage site within the potato leafroll virus P1 polyprotein. Journal of General Virology, 2007, 88, 1620-1623.	2.9	13
48	Stimulation of homologous recombination in plants expressing heterologous recombinases. BMC Plant Biology, 2020, 20, 336.	3.6	11
49	Lignin: Genetic Engineering and Impact on Pulping. Critical Reviews in Biochemistry and Molecular Biology, 2003, 38, 305-350.	5.2	9
50	Different routes for integral protein insertion into Ricinus communis protein-body and glyoxysome membranes. Planta, 1989, 179, 331-339.	3.2	7
51	Cell Biology: Up Against the Wall. Current Biology, 2013, 23, R1048-R1050.	3.9	7
52	Association mapping identifies quantitative trait loci (QTL) for digestibility in rice straw. Biotechnology for Biofuels, 2020, 13, 165.	6.2	7
53	Transgenic plants with improved energy characteristics. , 0, , 279-293.		5
54	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

ARTICLE IF CITATIONS

55 Lignin manipulation for fibre improvement., 2007,, 129-153. 2