Ruairidh J H Sawers

List of Publications by Year
in descending order

40 papers	2,168 citations	304743 22 h-index	315739 38 g-index
52 all docs	52 docs citations	52 times ranked	2956 citing authors

#	Article	IF	Citations
1	Phosphorus acquisition efficiency in arbuscular mycorrhizal maize is correlated with the abundance of rootâ€external hyphae and the accumulation of transcripts encoding PHT1 phosphate transporters. New Phytologist, 2017, 214, 632-643.	7.3	210
2	Cereal mycorrhiza: an ancient symbiosis in modern agriculture. Trends in Plant Science, 2008, 13, 93-97.	8.8	194
3	Tissue-Adapted Invasion Strategies of the Rice Blast Fungus <i>Magnaporthe oryzae</i> Â. Plant Cell, 2010, 22, 3177-3187.	6.6	179
4	BUNDLE SHEATH DEFECTIVE2, a Novel Protein Required for Post-Translational Regulation of the rbcL Gene of Maize. Plant Cell, 1999, 11, 849-864.	6.6	149
5	Transcriptome diversity among rice root types during asymbiosis and interaction with arbuscular mycorrhizal fungi. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6754-6759.	7.1	99
6	Light-regulated overexpression of an Arabidopsis phytochrome A gene in rice alters plant architecture and increases grain yield. Planta, 2006, 223, 627-636.	3.2	84
7	Phosphate Deprivation in Maize: Genetics and Genomics. Plant Physiology, 2011, 156, 1067-1077.	4.8	83
8	The Maize Oil Yellow1 (Oy1) Gene Encodes the I Subunit of Magnesium Chelatase. Plant Molecular Biology, 2006, 60, 95-106.	3.9	79
9	Structural Determinants of Antimicrobial and Antiplasmodial Activity and Selectivity in Histidine-rich Amphipathic Cationic Peptides. Journal of Biological Chemistry, 2009, 284, 119-133.	3.4	79
10	An N-acetylglucosamine transporter required for arbuscular mycorrhizal symbioses in rice and maize. Nature Plants, 2017, 3, 17073.	9.3	72
11	elongated mesocotyl1, a Phytochrome-Deficient Mutant of Maize. Plant Physiology, 2002, 130, 155-163.	4.8	68
12	Maize high chlorophyll fluorescent 60 mutation is caused by an Ac disruption of the gene encoding the chloroplast ribosomal small subunit protein 17. Plant Journal, 2000, 21, 317-327.	5.7	67
13	Cereal phytochromes: targets of selection, targets for manipulation?. Trends in Plant Science, 2005, 10, 138-143.	8.8	66
14	Distribution of Activator (Ac) Throughout the Maize Genome for Use in Regional MutagenesisSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY559172, AY559173, AY559174, AY559175, AY559176, AY559177, AY559178, AY559179, AY559180, AY559181, AY559182, AY559183, AY559184, AY559185, AY559186, AY559187, AY559188, AY559189, AY559190, AY559191, AY559192, AY559193, AY559194, AY559195, AY559196, AY559197, AY559198, AY559199, AY559200, AY559201, AY559202, AY. Genetics, 2005, 169, 981-995.	2.9	60
15	A multi-treatment experimental system to examine photosynthetic differentiation in the maize leaf. BMC Genomics, 2007, 8, 12.	2.8	57
16	Characterizing variation in mycorrhiza effect among diverse plant varieties. Theoretical and Applied Genetics, 2010, 120, 1029-1039.	3.6	57
17	The impact of domestication and crop improvement on arbuscular mycorrhizal symbiosis in cereals: insights from genetics and genomics. New Phytologist, 2018, 220, 1135-1140.	7.3	54
18	The maize (Zea mays ssp. mays var. B73) genome encodes 33 members of the purple acid phosphatase family. Frontiers in Plant Science, 2015, 6, 341.	3.6	51

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19	Gene regulatory effects of a large chromosomal inversion in highland maize. PLoS Genetics, 2020, 16, e1009213.	3.5	46
20	A rice Serine/Threonine receptor-like kinase regulates arbuscular mycorrhizal symbiosis at the peri-arbuscular membrane. Nature Communications, 2018, 9, 4677.	12.8	45
21	The Elm1 (ZmHy2) Gene of Maize Encodes a Phytochromobilin Synthase. Plant Physiology, 2004, 136, 2771-2781.	4.8	44
22	Allele specific expression analysis identifies regulatory variation associated with stress-related genes in the Mexican highland maize landrace Palomero ToluqueÃ±o. PeerJ, 2017, 5, e3737.	2.0	32
23	Co-ordinated Changes in the Accumulation of Metal Ions in Maize (Zea mays ssp. mays L.) in Response to Inoculation with the Arbuscular Mycorrhizal Fungus Funneliformis mosseae. Plant and Cell Physiology, 2017, 58, 1689-1699.	3.1	27
24	The genetic architecture of host response reveals the importance of arbuscular mycorrhizae to maize cultivation. ELife, 2020, 9, .	6.0	24
25	Characterization of introgression from the teosinte <i>Zea mays</i> ssp. <i>mexicana</i> to Mexican highland maize. PeerJ, 2019, 7, e6815.	2.0	24
26	Adaptive phenotypic divergence in an annual grass differs across biotic contexts*. Evolution; International Journal of Organic Evolution, 2019, 73, 2230-2246.	2.3	22
27	An adaptive teosinte<i>mexicana</i>introgression modulates phosphatidylcholine levels and is associated with maize flowering time. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	21
28	Evolutionary Responses to Conditionality in Species Interactions across Environmental Gradients. American Naturalist, 2018, 192, 715-730.	2.1	20
29	Inoculation with the mycorrhizal fungus <i>Rhizophagus irregularis</i> modulates the relationship between root growth and nutrient content in maize (<i>Zea mays</i> ssp. <i>mays</i> L.). Plant Direct, 2019, 3, e00192.	1.9	19
30	Harnessing cross-border resources to confront climate change. Environmental Science and Policy, 2018, 87, 128-132.	4.9	16
31	Low nitrogen availability inhibits the phosphorus starvation response in maize (Zea mays ssp. mays L.). BMC Plant Biology, 2021, 21, 259.	3.6	16
32	Demonstration of local adaptation in maize landraces by reciprocal transplantation. Evolutionary Applications, 2022, 15, 817-837.	3.1	15
33	Characterization and Transposon Mutagenesis of the Maize (Zea mays) Pho1 Gene Family. PLoS ONE, 2016, 11, e0161882.	2.5	13
34	In planta transient expression as a system for genetic and biochemical analyses of chlorophyll biosynthesis. Plant Methods, 2006, 2, 15.	4.3	12
35	A B73Ã—Palomero ToluqueÃ±o mapping population reveals local adaptation in Mexican highland maize. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	11
36	The Molecular Components of Nutrient Exchange in Arbuscular Mycorrhizal Interactions. , 2008, , 37-59.		6

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37	<scp>Rhizosphere</scp><scp>bacterial communities differ among traditional maize landraces</scp>. Environmental DNA, 2022, 4, 1241-1249.	5.8	5
38	Origins of maize: a further paradox resolved. Frontiers in Genetics, 2011, 2, 53.	2.3	4
39	Identification of the maize Mediator CDK8 module and transposon-mediated mutagenesis of <i>ZmMed12a</i>. International Journal of Developmental Biology, 2021, 65, 383-394.	0.6	2
40	The <i>pho1;2aâ€²â€¢m1.1</i> allele of <i>Phosphate1</i> conditions misregulation of the phosphorus starvation response in maize (<scp> <i>Zea mays</i> ssp. <i>mays</i> </scp> L.). Plant Direct, 2022, 6, .	1.9	0