Claire Domoney

List of Publications by Year
in descending order

43 papers	2,639 citations	257357 24 h-index	254106 43 g-index
45 all docs	45 docs citations	45 times ranked	3007 citing authors

#	Article	IF	Citations
1	Speed breeding is a powerful tool to accelerate crop research and breeding. Nature Plants, 2018, 4, 23-29.	4.7	770
2	Speed breeding in growth chambers and glasshouses for crop breeding and model plant research. Nature Protocols, 2018, 13, 2944-2963.	5.5	286
3	Can We Improve the Nutritional Quality of Legume Seeds?. Plant Physiology, 2003, 131, 886-891.	2.3	191
4	Achievements and Challenges in Improving the Nutritional Quality of Food Legumes. Critical Reviews in Plant Sciences, 2015, 34, 105-143.	2.7	187
5	Lipoxygenases and the quality of foods. Food Chemistry, 1995, 54, 33-43.	4.2	132
6	Genome-Wide Association Mapping for Agronomic and Seed Quality Traits of Field Pea (Pisum sativum) Tj ETQq0 0 0 rgBT /Overlock 10	1.7	83
7	Combined Metabolomic and Genetic Approaches Reveal a Link between the Polyamine Pathway and Albumin 2 in Developing Pea Seeds. Plant Physiology, 2008, 146, 74-82.	2.3	73
8	Pea (Pisum sativumL.) Protease Inhibitors from the Bowmanâ˜'Birk Class Influence the Growth of Human Colorectal Adenocarcinoma HT29 Cellsin Vitro. Journal of Agricultural and Food Chemistry, 2005, 53, 8979-8986.	2.4	70
9	High-Performance Liquid Chromatographic Analysis of the Products of Linoleic Acid Oxidation Catalyzed by Pea (Pisum sativum) Seed Lipoxygenases. Journal of Agricultural and Food Chemistry, 1995, 43, 337-342.	2.4	68
10	Bowman-Birk Inhibitors from Legumes and Human Gastrointestinal Health: Current Status and Perspectives. Current Protein and Peptide Science, 2011, 12, 358-373.	0.7	51
11	Organization and mapping of legumin genes in Pisum. Molecular Genetics and Genomics, 1986, 202, 280-285.	2.4	48
12	Exploiting a fast neutron mutant genetic resource in Pisum sativum (pea) for functional genomics. Functional Plant Biology, 2013, 40, 1261.	1.1	42
13	The stage of seed development influences iron bioavailability in pea (Pisum sativum L.). Scientific Reports, 2018, 8, 6865.	1.6	39
14	A natural mutation in Pisum sativum L. (pea) alters starch assembly and improves glucose homeostasis in humans. Nature Food, 2020, 1, 693-704.	6.2	37
15	Eliminating Anti-Nutritional Plant Food Proteins: The Case of Seed Protease Inhibitors in Pea. PLoS ONE, 2015, 10, e0134634.	1.1	37
16	Genetic and genomic analysis of legume flowers and seeds. Current Opinion in Plant Biology, 2006, 9, 133-141.	3.5	35
17	Vicilin genes ofPisum. Molecular Genetics and Genomics, 1986, 205, 164.	2.4	33
18	The effect of variation within inhibitory domains on the activity of pea protease inhibitors from the Bowmanâ€“Birk class. Protein Expression and Purification, 2004, 36, 106-114.	0.6	32

#	Article	IF	Citations
19	The effect of modifying carbohydrate metabolism on seed protein gene expression in peas. Journal of Plant Physiology, 1998, 152, 636-640.	1.6	30
20	The apparent ileal digestibility, determined with young broilers, of amino acids in near-isogenic lines of peas (Pisum sativum L) differing in trypsin inhibitor activity. Journal of the Science of Food and Agriculture, 2003, 83, 644-651.	1.7	30
21	The complete deduced amino acid sequences of legumin ?-polypeptides from different genetic loci inPisum. Plant Molecular Biology, 1986, 7, 467-474.	2.0	28
22	Storage protein precursor polypeptides in cotyledons of Pisum sativum L.. Identification of, and isolation of a cDNA clone for, an 80000-Mr legumin-related polypeptide. FEBS Journal, 1984, 139, 321-327.	0.2	27
23	Molecular analysis of a null mutant for pea (Pisum sativum L.) seed lipoxygenase-2. Plant Molecular Biology, 1999, 39, 1209-1220.	2.0	27
24	From Mendelâ€™s discovery on pea to todayâ€™s plant genetics and breeding. Theoretical and Applied Genetics, 2016, 129, 2267-2280.	1.8	26
25	Three classes of proteinase inhibitor gene have distinct but overlapping patterns of expression in Pisum sativum plants. Plant Molecular Biology, 2002, 48, 319-329.	2.0	23
26	Genetic Variation Controlling Wrinkled Seed Phenotypes in Pisum: How Lucky Was Mendel?. International Journal of Molecular Sciences, 2017, 18, 1205.	1.8	22
27	Ribosomal RNA Gene Redundancy in Juvenile and Mature Ivy (Hedera helix). Journal of Experimental Botany, 1980, 31, 1093-1100.	2.4	19
28	Fulvic acid increases forage legume growth inducing preferential up-regulation of nodulation and signalling-related genes. Journal of Experimental Botany, 2020, 71, 5689-5704.	2.4	19
29	Studies on the biological responses of rats to seed trypsin inhibitors using near-isogenic lines ofPisum sativum L (pea). Journal of the Science of Food and Agriculture, 1999, 79, 1647-1653.	1.7	18
30	NMR Metabolomics Defining Genetic Variation in Pea Seed Metabolites. Frontiers in Plant Science, 2018, 9, 1022.	1.7	18
31	The influence of pea seed trypsin inhibitors on thein vitro digestibility of casein. Journal of the Science of Food and Agriculture, 1995, 68, 431-437.	1.7	16
32	Perspectives on the genetic improvement of health- and nutrition-related traits in pea. Plant Physiology and Biochemistry, 2021, 158, 353-362.	2.8	16
33	SGRL can regulate chlorophyll metabolism and contributes to normal plant growth and development in Pisum sativum L.. Plant Molecular Biology, 2015, 89, 539-558.	2.0	15
34	Ultra-high performance liquid chromatography-size exclusion chromatography (UPLC-SEC) as an efficient tool for the rapid and highly informative characterisation of biopolymers. Carbohydrate Polymers, 2018, 196, 422-426.	5.1	15
35	Variation in Pea (Pisum sativum L.) Seed Quality Traits Defined by Physicochemical Functional Properties. Foods, 2019, 8, 570.	1.9	15
36	The effect of germination on seed trypsin inhibitors inVicia faba andCicer arietinum. Journal of the Science of Food and Agriculture, 2004, 84, 556-560.	1.7	14

#	Article	IF	Citations
37	A developmentally regulated early-embryogenesis protein in pea (Pisum sativum L.) is related to the heat-shock protein (HSP70) gene family. Planta, 1991, 184, 350-5.	1.6	11
38	The effects of genetic variation atr,rb andTri loci inPisum sativum L. on apparent ileal digestibility of amino acids in young broilers. Journal of the Science of Food and Agriculture, 2006, 86, 436-444.	1.7	7
39	Real-time monitoring of rhizosphere nitrate fluctuations under crops following defoliation. Plant Methods, 2021, 17, 11.	1.9	6
40	The Structure, Expression and Arrangement of Legumin Genes in Peas. Biochemie Und Physiologie Der Pflanzen, 1988, 183, 173-180.	0.5	5
41	Recombinant inbred lines derived from cultivars of pea for understanding the genetic basis of variation in breeders' traits. Plant Genetic Resources: Characterisation and Utilisation, 2018, 16, 424-436.	0.4	4
42	An Integrated Linkage Map of Three Recombinant Inbred Populations of Pea (Pisum sativum L.). Genes, 2022, 13, 196.	1.0	3
43	Reaching for the pulse of the planet and its population. Biochemist, 2021, 43, 26-30.	0.2	0