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	An Integrated Linkage Map of Three Recombinant Inbred Populations of Pea (Pisum sativum L.). Genes, 2022, 13, 196.	1.0	3
2	Perspectives on the genetic improvement of health- and nutrition-related traits in pea. Plant Physiology and Biochemistry, 2021, 158, 353-362.	2.8	16
3	Reaching for the pulse of the planet and its population. Biochemist, 2021, 43, 26-30.	0.2	0
4	Real-time monitoring of rhizosphere nitrate fluctuations under crops following defoliation. Plant Methods, 2021, 17, 11.	1.9	6
5	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
6	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
7	Variation in Pea (Pisum sativum L.) Seed Quality Traits Defined by Physicochemical Functional Properties. Foods, 2019, 8, 570.	1.9	15
8	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
9	Speed breeding is a powerful tool to accelerate crop research and breeding. Nature Plants, 2018, 4, 23-29.	4.7	770
10	The stage of seed development influences iron bioavailability in pea (Pisum sativum L.). Scientific Reports, 2018, 8, 6865.	1.6	39
11	Speed breeding in growth chambers and glasshouses for crop breeding and model plant research. Nature Protocols, 2018, 13, 2944-2963.	5.5	286
12	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
13	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
14	NMR Metabolomics Defining Genetic Variation in Pea Seed Metabolites. Frontiers in Plant Science, 2018, 9, 1022.	1.7	18
15	Genetic Variation Controlling Wrinkled Seed Phenotypes in Pisum: How Lucky Was Mendel?. International Journal of Molecular Sciences, 2017, 18, 1205.	1.8	22
16	From Mendelâ€™s discovery on pea to todayâ€™s plant genetics and breeding. Theoretical and Applied Genetics, 2016, 129, 2267-2280.	1.8	26
17	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
18	Achievements and Challenges in Improving the Nutritional Quality of Food Legumes. Critical Reviews in Plant Sciences, 2015, 34, 105-143.	2.7	187

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19	Eliminating Anti-Nutritional Plant Food Proteins: The Case of Seed Protease Inhibitors in Pea. PLoS ONE, 2015, 10, e0134634.	1.1	37
20	Exploiting a fast neutron mutant genetic resource in Pisum sativum (pea) for functional genomics. Functional Plant Biology, 2013, 40, 1261.	1.1	42
21	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
22	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
23	Genetic and genomic analysis of legume flowers and seeds. Current Opinion in Plant Biology, 2006, 9, 133-141.	3.5	35
24	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
25	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
26	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
27	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
28	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
29	Can We Improve the Nutritional Quality of Legume Seeds?. Plant Physiology, 2003, 131, 886-891.	2.3	191
30	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
31	Molecular analysis of a null mutant for pea (Pisum sativum L.) seed lipoxygenase-2. Plant Molecular Biology, 1999, 39, 1209-1220.	2.0	27
32	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
33	The effect of modifying carbohydrate metabolism on seed protein gene expression in peas. Journal of Plant Physiology, 1998, 152, 636-640.	1.6	30
34	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
35	Lipoxygenases and the quality of foods. Food Chemistry, 1995, 54, 33-43.	4.2	132
36	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

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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 Structure, Expression and Arrangement of Legumin Genes in Peas. Biochemie Und Physiologie Der Pflanzen, 1988, 183, 173-180.	0.5	5
39	The complete deduced amino acid sequences of legumin ?-polypeptides from different genetic loci inPisum. Plant Molecular Biology, 1986, 7, 467-474.	2.0	28
40	Organization and mapping of legumin genes in Pisum. Molecular Genetics and Genomics, 1986, 202, 280-285.	2.4	48
41	Vicilin genes ofPisum. Molecular Genetics and Genomics, 1986, 205, 164.	2.4	33
42	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
43	Ribosomal RNA Gene Redundancy in Juvenile and Mature Ivy (Hedera helix). Journal of Experimental Botany, 1980, 31, 1093-1100.	2.4	19