

William A. Laing

List of Publications by Year in descending order

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98
papers

7,695
citations

81743

39
h-index

53109

85
g-index

99
all docs

99
docs citations

99
times ranked

7698
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient expression vectors for functional genomics, quantification of promoter activity and RNA silencing in plants. <i>Plant Methods</i> , 2005, 1, 13.	1.9	1,290
2	Regulation of Soybean Net Photosynthetic CO ₂ Fixation by the Interaction of CO ₂ , O ₂ , and Ribulose 1,5-Diphosphate Carboxylase. <i>Plant Physiology</i> , 1974, 54, 678-685.	2.3	631
3	MYB transcription factors that colour our fruit. <i>Trends in Plant Science</i> , 2008, 13, 99-102.	4.3	594
4	Analyses of Expressed Sequence Tags from Apple. <i>Plant Physiology</i> , 2006, 141, 147-166.	2.3	246
5	Gene expression studies in kiwifruit and gene over-expression in <i>Arabidopsis</i> indicates that GDP-L-galactose guanyltransferase is a major control point of vitamin C biosynthesis. <i>Journal of Experimental Botany</i> , 2009, 60, 765-778.	2.4	245
6	The missing step of the L-galactose pathway of ascorbate biosynthesis in plants, an L-galactose guanyltransferase, increases leaf ascorbate content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9534-9539.	3.3	216
7	Midgut protease activities in 12 phytophagous lepidopteran larvae: Dietary and protease inhibitor interactions. <i>Insect Biochemistry and Molecular Biology</i> , 1992, 22, 735-746.	1.2	208
8	Enhancing ascorbate in fruits and tubers through overexpression of the L-galactose pathway gene GDP-L-galactose phosphorylase. <i>Plant Biotechnology Journal</i> , 2012, 10, 390-397.	4.1	199
9	An Upstream Open Reading Frame Is Essential for Feedback Regulation of Ascorbate Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 772-786.	3.1	192
10	Analysis of expressed sequence tags from <i>Actinidia</i> : applications of a cross species EST database for gene discovery in the areas of flavor, health, color and ripening. <i>BMC Genomics</i> , 2008, 9, 351.	1.2	178
11	A manually annotated <i>Actinidia chinensis</i> var. <i>chinensis</i> (kiwifruit) genome highlights the challenges associated with draft genomes and gene prediction in plants. <i>BMC Genomics</i> , 2018, 19, 257.	1.2	167
12	Dietary Flavonoids from Modified Apple Reduce Inflammation Markers and Modulate Gut Microbiota in Mice. <i>Journal of Nutrition</i> , 2014, 144, 146-154.	1.3	153
13	The regulation of ascorbate biosynthesis. <i>Current Opinion in Plant Biology</i> , 2016, 33, 15-22.	3.5	141
14	Carbon Dioxide Fixation by Lupin Root Nodules. <i>Plant Physiology</i> , 1977, 60, 47-50.	2.3	134
15	A highly specific L-galactose-1-phosphate phosphatase on the path to ascorbate biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16976-16981.	3.3	134
16	Physiological impacts of Mg deficiency in <i>Pinus radiata</i> : growth and photosynthesis. <i>New Phytologist</i> , 2000, 146, 47-57.	3.5	122
17	QTL and candidate gene mapping for polyphenolic composition in apple fruit. <i>BMC Plant Biology</i> , 2012, 12, 12.	1.6	117
18	Anti-Inflammatory Procyanidins and Triterpenes in 109 Apple Varieties. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10546-10554.	2.4	115

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19	Control of CO ₂ fixation. Changes in the activity of ribulosephosphate kinase and fructose- and sedoheptulose-bisphosphatase in chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1981, 637, 348-359.	0.5	108
20	Isotope Discrimination by Ribulose 1,5-Diphosphate Carboxylase. <i>Plant Physiology</i> , 1976, 57, 580-582.	2.3	97
21	Variation in Ascorbic Acid and Oxalate Levels in the Fruit of <i>Actinidia chinensis</i> Tissues and Genotypes. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 2322-2326.	2.4	90
22	Physiological and biochemical leaf and tree responses to crop load in apple. <i>Tree Physiology</i> , 2005, 25, 1253-1263.	1.4	89
23	Allelic Variation in Paralogs of GDP-I-Galactose Phosphorylase Is a Major Determinant of Vitamin C Concentrations in Apple Fruit. <i>Plant Physiology</i> , 2012, 160, 1613-1629.	2.3	81
24	Purification, characterization and cloning of an aspartic proteinase inhibitor from squash phloem exudate. <i>FEBS Journal</i> , 1998, 254, 160-167.	0.2	78
25	Changes in photosynthetic efficiency and carotenoid composition in leaves of white clover at different developmental stages. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 887-893.	2.8	72
26	Increasing ascorbate levels in crops to enhance human nutrition and plant abiotic stress tolerance. <i>Current Opinion in Biotechnology</i> , 2017, 44, 153-160.	3.3	72
27	Characterization and partial purification of the digestive proteases of the black field cricket, <i>Teleogryllus commodus</i> (Walker): Elastase is a major component. <i>Insect Biochemistry</i> , 1990, 20, 157-164.	1.8	71
28	Multifunctional oxidosqualene cyclases and cytochrome P450 involved in the biosynthesis of apple fruit triterpenic acids. <i>New Phytologist</i> , 2016, 211, 1279-1294.	3.5	66
29	Kiwifruit-based polyphenols and related antioxidants for functional foods: kiwifruit extract-enhanced gluten-free bread. <i>International Journal of Food Sciences and Nutrition</i> , 2009, 60, 251-264.	1.3	53
30	Effects of protease inhibitor concentration and combinations on the survival, growth and gut enzyme activities of the black field cricket, <i>Teleogryllus commodus</i> . <i>Journal of Insect Physiology</i> , 1994, 40, 803-811.	0.9	52
31	Effects of protease inhibitors and dietary protein level on the black field cricket <i>Teleogryllus commodus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1991, 61, 123-130.	0.7	51
32	Changes in quinic acid metabolism during fruit development in three kiwifruit species. <i>Functional Plant Biology</i> , 2009, 36, 463.	1.1	48
33	Effects of carbon dioxide concentration on coral photosynthesis. <i>Marine Biology</i> , 1983, 75, 113-116.	0.7	47
34	A cysteine proteinase inhibitor purified from apple fruit. <i>Phytochemistry</i> , 1998, 49, 957-963.	1.4	46
35	Photoinhibition of photosynthesis in intact kiwifruit (<i>Actinidia deliciosa</i>) leaves: Effect of temperature. <i>Planta</i> , 1988, 174, 152-158.	1.6	45
36	A steady-state kinetic study on the catalytic mechanism of ribulose bisphosphate carboxylase from soybean. <i>Archives of Biochemistry and Biophysics</i> , 1980, 202, 592-600.	1.4	43

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37	Title is missing!. Transgenic Research, 1999, 8, 383-395.	1.3	43
38	Photoinhibition of photosynthesis in intact kiwifruit (<i>Actinidia deliciosa</i>) leaves: Recovery and its dependence on temperature. <i>Planta</i> , 1988, 174, 159-165.	1.6	41
39	Plant Serine Proteinase Inhibitors. <i>Protein and Peptide Letters</i> , 2005, 12, 439-447.	0.4	39
40	A combined omics approach to evaluate the effects of dietary curcumin on colon inflammation in the Mdr1a ^{-/-} mouse model of inflammatory bowel disease. <i>Journal of Nutritional Biochemistry</i> , 2016, 27, 181-192.	1.9	39
41	A general method for two-dimensional protein electrophoresis of fruit samples. <i>Postharvest Biology and Technology</i> , 2004, 32, 175-181.	2.9	38
42	Unusual Immuno-Modulatory Triterpene-Caffeates in the Skins of Russeted Varieties of Apples and Pears. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2773-2779.	2.4	38
43	Multiple Copies of a Simple MYB-Binding Site Confers Trans-regulation by Specific Flavonoid-Related R2R3 MYBs in Diverse Species. <i>Frontiers in Plant Science</i> , 2017, 8, 1864.	1.7	38
44	Carbon Dioxide Fixation by Lupin Root Nodules. <i>Plant Physiology</i> , 1979, 63, 450-454.	2.3	37
45	The expression of a mammalian proteinase inhibitor, bovine spleen trypsin inhibitor in tobacco and its effects on <i>Helicoverpa armigera</i> larvae. <i>Transgenic Research</i> , 2002, 11, 161-173.	1.3	37
46	Purification and characterization of phytocystatins from kiwifruit cortex and seeds. <i>Phytochemistry</i> , 2004, 65, 19-30.	1.4	36
47	Defining the Potassium Binding Region in an Apple Terpene Synthase. <i>Journal of Biological Chemistry</i> , 2009, 284, 8661-8669.	1.6	36
48	Light-dependent, but phytochrome-independent, translational control of the accumulation of the P700 chlorophyll-a protein of photosystem I in barley (<i>Hordeum vulgare</i> L.). <i>Planta</i> , 1988, 176, 269-276.	1.6	35
49	Temperature and light response curves for photosynthesis in kiwifruit (<i>Actinidia chinensis</i>) cv. Hayward. <i>New Zealand Journal of Agricultural Research</i> , 1985, 28, 117-124.	0.9	34
50	Toxicity of Trypsin Endopeptidase Inhibitors to Honey Bees (Hymenoptera: Apidae). <i>Journal of Economic Entomology</i> , 1995, 88, 46-50.	0.8	34
51	Modulation of colonic inflammation in Mdr1a ^{-/-} mice by green tea polyphenols and their effects on the colon transcriptome and proteome. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 1678-1690.	1.9	34
52	Determination of the Relative Expression Levels of Rubisco Small Subunit Genes in Arabidopsis by Rapid Amplification of cDNA Ends. <i>Analytical Biochemistry</i> , 2001, 291, 237-244.	1.1	33
53	Kiwifruit L-galactose dehydrogenase: molecular, biochemical and physiological aspects of the enzyme. <i>Functional Plant Biology</i> , 2004, 31, 1015.	1.1	33
54	Activity expressed from cloned <i>Anacystis nidulans</i> large and small subunit ribulose bisphosphate carboxylase genes. <i>Plant Molecular Biology</i> , 1985, 5, 257-263.	2.0	32

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55	Overproduction of Digestive Enzymes Compensates for Inhibitory Effects of Protease and α -Amylase Inhibitors Fed to Three Species of Leafrollers (Lepidoptera: Tortricidae). <i>Journal of Economic Entomology</i> , 1998, 91, 1265-1276.	0.8	32
56	Visualization of pH gradients in the larval midgut of <i>Spodoptera litura</i> using ^{31}P -NMR microscopy. <i>Journal of Insect Physiology</i> , 1996, 42, 777-790.	0.9	31
57	Photoinhibition of photosynthesis in intact kiwifruit (<i>Actinidia deliciosa</i>) leaves: Changes in susceptibility to photoinhibition and recovery during the growth season. <i>Planta</i> , 1992, 186, 418-25.	1.6	30
58	Photosynthetic Responses of Thirteen Pasture Species to Elevated CO_2 and Temperature. <i>Functional Plant Biology</i> , 1995, 22, 713.	1.1	30
59	Photoinhibition of photosynthesis in intact kiwifruit (<i>Actinidia deliciosa</i>) leaves: Effect of light during growth on photoinhibition and recovery. <i>Planta</i> , 1988, 175, 355-363.	1.6	29
60	Kiwifruit extracts inhibit cytokine production by lipopolysaccharide-activated macrophages, and intestinal epithelial cells isolated from IL10 gene deficient mice. <i>Cellular Immunology</i> , 2011, 270, 70-79.	1.4	29
61	Avocado Fruit Skin Fluorescence following Hot Water Treatments and Pretreatments. <i>Journal of the American Society for Horticultural Science</i> , 1996, 121, 147-151.	0.5	29
62	Proteomic Analysis of Colon Tissue from Interleukin-10 Gene-Deficient Mice Fed Polyunsaturated Fatty Acids with Comparison to Transcriptomic Analysis. <i>Journal of Proteome Research</i> , 2012, 11, 1065-1077.	1.8	28
63	Effects of kiwifruit extracts on colonic gene and protein expression levels in IL-10 gene-deficient mice. <i>British Journal of Nutrition</i> , 2012, 108, 113-129.	1.2	24
64	Photoinhibition of Photosynthesis Causes a Reduction in Vegetative Growth Rates of Dwarf Bean (<i>Phaseolus vulgaris</i>) Plants. <i>Functional Plant Biology</i> , 1995, 22, 511.	1.1	23
65	Activation of spinach chloroplast acetyl-coenzyme A carboxylase by coenzyme A. <i>FEBS Letters</i> , 1982, 144, 341-344.	1.3	21
66	Posttranslational Modification of an Isoinhibitor from the Potato Proteinase Inhibitor II Gene Family in Transgenic Tobacco Yields a Peptide with Homology to Potato Chymotrypsin Inhibitor I. <i>Plant Physiology</i> , 1994, 106, 771-777.	2.3	21
67	Comparative photorespiration in <i>Amaranthus</i> , soybean and corn. <i>Planta</i> , 1971, 98, 221-231.	1.6	20
68	Photoinhibition of photosynthesis in intact kiwifruit (<i>Actinidia deliciosa</i>) leaves: effect of growth temperature on photoinhibition and recovery. <i>Planta</i> , 1989, 180, 32-39.	1.6	20
69	Post-weaning selenium and folate supplementation affects gene and protein expression and global DNA methylation in mice fed high-fat diets. <i>BMC Medical Genomics</i> , 2013, 6, 7.	0.7	19
70	Expression of the soybean (Kunitz) trypsin inhibitor in leaves of white clover (<i>Trifolium repens</i> L.). <i>Plant Science</i> , 2005, 168, 1211-1220.	1.7	18
71	Ethylene-regulated (methylsulfanyl)alkanoate ester biosynthesis is likely to be modulated by precursor availability in <i>Actinidia chinensis</i> genotypes. <i>Journal of Plant Physiology</i> , 2011, 168, 629-638.	1.6	18
72	α -Amylase Activities in Larval Midgut Extracts from Four Species of Lepidoptera (Tortricidae and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i> <i>Journal of Economic Entomology</i> , 1996, 89, 39-45.	0.8	17

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73	Dietary oleic acid as a control fatty acid for polyunsaturated fatty acid intervention studies: A transcriptomics and proteomics investigation using interleukin-10 gene-deficient mice. <i>Biotechnology Journal</i> , 2010, 5, 1226-1240.	1.8	17
74	Chronic inflammation, mutation and human disease. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2010, 690, 1-2.	0.4	17
75	Behavioural and physiological responses of grass grub larvae (<i>Costelytra zealandica</i>) feeding on protease inhibitors. <i>New Zealand Journal of Zoology</i> , 1992, 19, 123-131.	0.6	16
76	Quantification of folate in fruits and vegetables: A fluorescence-based homogeneous assay. <i>Analytical Biochemistry</i> , 2010, 402, 137-145.	1.1	16
77	Knock-down of transcript abundance of a family of Kunitz proteinase inhibitor genes in white clover (<i>Trifolium repens</i>) by RNA interference. <i>Plant Biotechnology Journal</i> , 2010, 8, 1188-1201.	3.5	16
78	Identification and Characterisation of Proteinase Inhibitors and Their Genes from Seeds of Apple (<i>Malus domestica</i>). <i>Journal of Biochemistry</i> , 2003, 134, 31-42.	0.9	15
79	Molecular Characterization of the Onset and Progression of Colitis in Inoculated Interleukin-10 Gene-Deficient Mice: A Role for PPAR γ . <i>PPAR Research</i> , 2010, 2010, 1-18.	1.1	15
80	Regulation of wound ethylene biosynthesis by NAC transcription factors in kiwifruit. <i>BMC Plant Biology</i> , 2021, 21, 411.	1.6	14
81	Chloroplast phosphoproteins: Distribution of phosphoproteins within spinach chloroplasts. <i>Plant Science Letters</i> , 1984, 36, 99-104.	1.9	13
82	The Effect of Chloramphenicol on Photoinhibition of Photosynthesis and Its Recovery in Intact Kiwifruit (<i>Actinidia deliciosa</i>) Leaves. <i>Functional Plant Biology</i> , 1993, 20, 33.	1.1	13
83	Analysis of the interaction between the aspartic peptidase inhibitor SQAPI and aspartic peptidases using surface plasmon resonance. <i>Journal of Molecular Recognition</i> , 2002, 15, 135-144.	1.1	12
84	Solution Structure of the Squash Aspartic Acid Proteinase Inhibitor (SQAPI) and Mutational Analysis of Pepsin Inhibition. <i>Journal of Biological Chemistry</i> , 2010, 285, 27019-27025.	1.6	12
85	The interaction of the elastase inhibitor, eglin c, with insect digestive endopeptidases: Effect of pH on the dissociation constants. <i>Insect Biochemistry and Molecular Biology</i> , 1994, 24, 103-109.	1.2	11
86	Phosphorus Imaging as a Tool for Studying the pH Metabolism in Living Insects. <i>Journal of Magnetic Resonance Series B</i> , 1995, 108, 262-268.	1.6	11
87	Strong responses of growth and photosynthesis of five C3 pasture species to elevated CO2 at low temperatures. <i>Functional Plant Biology</i> , 2002, 29, 1089.	1.1	11
88	Wounding induces a series of closely related trypsin/chymotrypsin inhibitory peptides in leaves of tobacco. <i>Phytochemistry</i> , 1994, 37, 921-926.	1.4	10
89	The major extracellular proteinases of the silverleaf fungus, <i>Chondrostereum purpureum</i> , are metalloproteinases. <i>Plant Pathology</i> , 1996, 45, 552-563.	1.2	10
90	Serpins in fruit and vegetative tissues of apple (<i>Malus domestica</i>): expression of four serpins with distinct reactive centres and characterisation of a major inhibitory seed form, MdZ1b. <i>Functional Plant Biology</i> , 2005, 32, 517.	1.1	10

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91	The Squash Aspartic Proteinase Inhibitor SQAPI Is Widely Present in the Cucurbitales, Comprises a Small Multigene Family, and Is a Member of the Phycocystatin Family. <i>Journal of Molecular Evolution</i> , 2006, 63, 747-757.	0.8	10
92	The effect of perturbations in temperature and photon flux density on the growth and photosynthetic responses of five pasture species to elevated CO ₂ . <i>Functional Plant Biology</i> , 2000, 27, 301.	1.1	10
93	A method to distinguish between chemical shift and susceptibility effects in NMR microscopy and its application to insect larvae. <i>Magnetic Resonance Imaging</i> , 1995, 13, 471-479.	1.0	9
94	Quantification and kinetics of the decline in grass grub endopeptidase activity during initiation of amber disease. <i>Journal of Invertebrate Pathology</i> , 2004, 86, 72-76.	1.5	8
95	A non-synonymous nucleotide substitution can account for one evolutionary route to sesquiterpene synthase activity in the TPS-b subgroup. <i>FEBS Letters</i> , 2011, 585, 1841-1846.	1.3	8
96	The interaction of the 11S globulin-like protein of kiwifruit seeds with pepsin. <i>Plant Science</i> , 2006, 171, 663-669.	1.7	7
97	Two dual trypsin/chymotrypsin iso-inhibitors purified from <i>Festuca arundinacea</i> seed. <i>Phytochemistry</i> , 1996, 43, 983-988.	1.4	5
98	2-O-β-D-Glucopyranosyl-Ascorbic Acid, a Stable Form of Vitamin C, Is Widespread in Crop Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 966-973.	2.4	4