

Allen G Good

List of Publications by Year in descending order

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92
papers

7,261
citations

57758

44
h-index

56724

83
g-index

94
all docs

94
docs citations

94
times ranked

7432
citing authors

#	ARTICLE	IF	CITATIONS
1	Can less yield more? Is reducing nutrient input into the environment compatible with maintaining crop production?. <i>Trends in Plant Science</i> , 2004, 9, 597-605.	8.8	767
2	Fertilizing Nature: A Tragedy of Excess in the Commons. <i>PLoS Biology</i> , 2011, 9, e1001124.	5.6	361
3	Engineering nitrogen use efficient crop plants: the current status. <i>Plant Biotechnology Journal</i> , 2012, 10, 1011-1025.	8.3	332
4	Molecular strategies for improving waterlogging tolerance in plants. <i>Journal of Experimental Botany</i> , 2000, 51, 89-97.	4.8	277
5	Genetic engineering of improved nitrogen use efficiency in rice by the tissue-specific expression of alanine aminotransferase. <i>Plant Biotechnology Journal</i> , 2008, 6, 722-732.	8.3	270
6	The effects of drought stress on free amino acid accumulation and protein synthesis in <i>Brassica napus</i> . <i>Physiologia Plantarum</i> , 1994, 90, 9-14.	5.2	244
7	Enhanced Low Oxygen Survival in <i>Arabidopsis</i> through Increased Metabolic Flux in the Fermentative Pathway. <i>Plant Physiology</i> , 2003, 132, 1292-1302.	4.8	243
8	Pollen flow between herbicide-resistant <i>Brassica napus</i> is the cause of multiple-resistant volunteers. <i>Weed Science</i> , 2000, 48, 688-694.	1.5	239
9	Alanine aminotransferase catalyses the breakdown of alanine after hypoxia in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007, 49, 1108-1121.	5.7	221
10	The Genetics of Nitrogen Use Efficiency in Crop Plants. <i>Annual Review of Genetics</i> , 2015, 49, 269-289.	7.6	217
11	Engineering nitrogen use efficiency with alanine aminotransferase. <i>Canadian Journal of Botany</i> , 2007, 85, 252-262.	1.1	201
12	Contribution of the GABA shunt to hypoxia-induced alanine accumulation in roots of <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2008, 49, 92-102.	3.1	177
13	Transgenic <i>Brassica napus</i> plants overexpressing aluminium-induced mitochondrial manganese superoxide dismutase cDNA are resistant to aluminium. <i>Plant, Cell and Environment</i> , 2001, 24, 1278-1269.	5.7	173
14	The Rice R2R3-MYB Transcription Factor OsMYB55 Is Involved in the Tolerance to High Temperature and Modulates Amino Acid Metabolism. <i>PLoS ONE</i> , 2012, 7, e52030.	2.5	163
15	The APETALA-2-Like Transcription Factor OsAP2-39 Controls Key Interactions between Abscisic Acid and Gibberellin in Rice. <i>PLoS Genetics</i> , 2010, 6, e1001098.	3.5	161
16	Future Prospects for Cereals That Fix Nitrogen. <i>Science</i> , 2011, 333, 416-417.	12.6	160
17	NAD(H)-dependent glutamate dehydrogenase is essential for the survival of <i>Arabidopsis thaliana</i> during dark-induced carbon starvation. <i>Journal of Experimental Botany</i> , 2008, 59, 667-680.	4.8	138
18	Induction of Vacuolar ATPase and Mitochondrial ATP Synthase by Aluminum in an Aluminum-Resistant Cultivar of Wheat. <i>Plant Physiology</i> , 2001, 125, 2068-2077.	4.8	110

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19	Large-scale Identification of Tubulin-binding Proteins Provides Insight on Subcellular Trafficking, Metabolic Channeling, and Signaling in Plant Cells. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 970-983.	3.8	110
20	Anaerobic Induction of Alanine Aminotransferase in Barley Root Tissue. <i>Plant Physiology</i> , 1989, 90, 1305-1309.	4.8	109
21	Gibberellin 3-oxidase Gene Expression Patterns Influence Gibberellin Biosynthesis, Growth, and Development in Pea. <i>Plant Physiology</i> , 2013, 163, 929-945.	4.8	97
22	Manipulation of microRNA expression to improve nitrogen use efficiency. <i>Plant Science</i> , 2013, 210, 70-81.	3.6	83
23	Toward nitrogen-fixing plants. <i>Science</i> , 2018, 359, 869-870.	12.6	82
24	Complexities of Chromosome Landing in a Highly Duplicated Genome: Toward Map-Based Cloning of a Gene Controlling Blackleg Resistance in <i>Brassica napus</i> . <i>Genetics</i> , 2005, 171, 1977-1988.	2.9	80
25	Nitrogen use efficiencies of spring barley grown under varying nitrogen conditions in the field and growth chamber. <i>Annals of Botany</i> , 2010, 105, 1171-1182.	2.9	78
26	Genetic Variability in Nitrogen Use Efficiency of Spring Barley. <i>Crop Science</i> , 2009, 49, 1259-1269.	1.8	77
27	Transcriptome analysis of nitrogen-efficient rice overexpressing alanine aminotransferase. <i>Plant Biotechnology Journal</i> , 2009, 7, 562-576.	8.3	74
28	Molecular cloning and expression of a turgor-responsive gene in <i>Brassica napus</i> . <i>Plant Molecular Biology</i> , 1995, 27, 541-551.	3.9	69
29	Proteome Profile of Cytosolic Component of Zebrafish Liver Generated by LC-ESI MS/MS Combined with Trypsin Digestion and Microwave-Assisted Acid Hydrolysis. <i>Journal of Proteome Research</i> , 2007, 6, 263-272.	3.7	69
30	Hypoxically inducible barley alanine aminotransferase: cDNA cloning and expression analysis. <i>Plant Molecular Biology</i> , 1994, 24, 417-427.	3.9	68
31	Molecular mapping of resistance to <i>Leptosphaeria maculans</i> in Australian cultivars of <i>Brassica napus</i> . <i>Genome</i> , 1997, 40, 294-301.	2.0	68
32	Purification and Characterization of an Anaerobically Induced Alanine Aminotransferase from Barley Roots. <i>Plant Physiology</i> , 1992, 99, 1520-1525.	4.8	63
33	Interactions between Na ⁺ channels and Na ⁺ -HCO ₃ ⁻ cotransporters in the freshwater fish gill MR cell: a model for transepithelial Na ⁺ uptake. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C935-C944.	4.6	62
34	Extracellular Proteomes of <i>Arabidopsis thaliana</i> and <i>Brassica napus</i> Roots: Analysis and Comparison by MudPIT and LC-MS/MS. <i>Plant and Soil</i> , 2006, 286, 357-376.	3.7	60
35	Identification of quantitative trait loci (QTL) for oil and protein contents and their relationships with other seed quality traits in <i>Brassica juncea</i> . <i>Theoretical and Applied Genetics</i> , 2006, 113, 1211-1220.	3.6	60
36	Identification of Nitrogen Use Efficiency Genes in Barley: Searching for QTLs Controlling Complex Physiological Traits. <i>Frontiers in Plant Science</i> , 2016, 7, 1587.	3.6	59

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37	Mapping genes for resistance to <i>Leptosphaeria maculans</i> in <i>Brassica juncea</i> . <i>Genome</i> , 2006, 49, 30-41.	2.0	56
38	Genetic use restriction technologies (GURTs): strategies to impede transgene movement. <i>Trends in Plant Science</i> , 2007, 12, 177-183.	8.8	56
39	Functional analysis of lactate dehydrogenase during hypoxic stress in <i>Arabidopsis</i> . <i>Functional Plant Biology</i> , 2008, 35, 131.	2.1	53
40	Directed evolution of acyl-CoA:diacylglycerol acyltransferase: Development and characterization of <i>Brassica napus</i> DGAT1 mutagenized libraries. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 456-461.	5.8	53
41	Induction of Alcohol Dehydrogenase and Lactate Dehydrogenase in Hypoxically Induced Barley. <i>Plant Physiology</i> , 1989, 90, 860-866.	4.8	51
42	V-H ⁺ -ATPase translocation during blood alkalosis in dogfish gills: interaction with carbonic anhydrase and involvement in the postfeeding alkaline tide. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R2012-R2019.	1.8	50
43	Theoretical hybridization potential of transgenic safflower (<i>Carthamus tinctorius</i> L.) with weedy relatives in the New World. <i>Canadian Journal of Plant Science</i> , 2004, 84, 923-934.	0.9	48
44	Analysis of B-Genome Chromosome Introgression in Interspecific Hybrids of <i>Brassica napus</i> – <i>B. carinata</i> . <i>Genetics</i> , 2011, 187, 659-673.	2.9	48
45	Molecular mapping of seed aliphatic glucosinolates in <i>Brassica juncea</i> . <i>Genome</i> , 2003, 46, 753-760.	2.0	46
46	RFLP linkage analysis and mapping genes controlling the fatty acid profile of <i>Brassica juncea</i> using reciprocal DH populations. <i>Theoretical and Applied Genetics</i> , 2003, 107, 283-290.	3.6	42
47	Yield and Production Gaps in Rainfed Wheat, Barley, and Canola in Alberta. <i>Frontiers in Plant Science</i> , 2015, 6, 990.	3.6	42
48	Understanding Plant Nitrogen Metabolism through Metabolomics and Computational Approaches. <i>Plants</i> , 2016, 5, 39.	3.5	41
49	A 23-kDa, root exudate polypeptide co-segregates with aluminum resistance in <i>Triticum aestivum</i> . <i>Physiologia Plantarum</i> , 1999, 106, 53-61.	5.2	38
50	Detection of naphthenic acids in fish exposed to commercial naphthenic acids and oil sands process-affected water. <i>Chemosphere</i> , 2007, 68, 518-527.	8.2	38
51	Physiological analysis of nitrogen-efficient rice overexpressing alanine aminotransferase under different N regimes. <i>Botany</i> , 2013, 91, 866-883.	1.0	36
52	Development of molecular markers and linkage maps for the <i>Carthamus</i> species <i>C. tinctorius</i> and <i>C. oxyacanthus</i> . <i>Genome</i> , 2010, 53, 266-276.	2.0	35
53	Identification and evaluation of root maggot (<i>Delia</i> spp.) (Diptera: Anthomyiidae) resistance within Brassicaceae. <i>Crop Protection</i> , 2000, 19, 247-253.	2.1	34
54	Al-Induced, 51-Kilodalton, Membrane-Bound Proteins Are Associated with Resistance to Al in a Segregating Population of Wheat. <i>Plant Physiology</i> , 1997, 114, 363-372.	4.8	33

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55	Recovery from blood alkalosis in the Pacific hagfish (<i>Eptatretus stoutii</i>): Involvement of gill V _a H ⁺ -ATPase and Na ⁺ /K ⁺ -ATPase. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 148, 133-141.	1.8	31
56	Blood and gill responses to HCl infusions in the Pacific hagfish (<i>Eptatretus stoutii</i>). <i>Canadian Journal of Zoology</i> , 2007, 85, 855-862.	1.0	28
57	Glutamate deamination by glutamate dehydrogenase plays a central role in amino acid catabolism in plants. <i>Plant Signaling and Behavior</i> , 2008, 3, 842-843.	2.4	28
58	Alanine Aminotransferase Variants Conferring Diverse NUE Phenotypes in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2015, 10, e0121830.	2.5	28
59	Vacuolar H ⁺ -ATPase, but not mitochondrial F ₁ F ₀ -ATPase, is required for NaCl tolerance in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , 2002, 208, 227-232.	1.8	27
60	A phylogenetic investigation of <i>Carthamus</i> combining sequence and microsatellite data. <i>Plant Systematics and Evolution</i> , 2010, 287, 85-97.	0.9	26
61	Analysis of the Enzymatic Properties of a Broad Family of Alanine Aminotransferases. <i>PLoS ONE</i> , 2013, 8, e55032.	2.5	26
62	Introgression potential between safflower (<i>Carthamus tinctorius</i>) and wild relatives of the genus <i>Carthamus</i> . <i>BMC Plant Biology</i> , 2011, 11, 47.	3.6	25
63	Cloning and expression of a hypoxic and nitrogen inducible maize alanine aminotransferase gene. <i>Physiologia Plantarum</i> , 1998, 103, 503-512.	5.2	24
64	Identification and evaluation of flea beetle (<i>Phyllotreta cruciferae</i>) resistance within Brassicaceae. <i>Canadian Journal of Plant Science</i> , 2000, 80, 881-887.	0.9	23
65	Vacuolar H ⁺ -ATPase, but not mitochondrial F ₁ F ₀ -ATPase, is required for aluminum resistance in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , 2001, 205, 231-236.	1.8	23
66	Selection Efficiency across Environments in Improvement of Barley Yield for Moderately Low Nitrogen Environments. <i>Crop Science</i> , 2010, 50, 451-457.	1.8	22
67	Identification and characterization of a hypoxically induced maize lactate dehydrogenase gene. <i>Plant Molecular Biology</i> , 1992, 19, 693-697.	3.9	21
68	Effects of drought stress on the water relations in <i>Brassica</i> species. <i>Canadian Journal of Plant Science</i> , 1993, 73, 525-529.	0.9	21
69	Molecular markers for seed colour in <i>Brassica juncea</i> . <i>Genome</i> , 2005, 48, 755-760.	2.0	20
70	Hypoxic metabolism in wild rice (<i>Zizania palustris</i>): enzyme induction and metabolite production. <i>Physiologia Plantarum</i> , 1993, 89, 165-171.	5.2	18
71	Potential for seed-mediated gene flow in agroecosystems from transgenic safflower (<i>Carthamus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 18	2.4	18
72	The challenges of commercializing second-generation transgenic crop traits necessitate the development of international public sector research infrastructure. <i>Journal of Experimental Botany</i> , 2014, 65, 5673-5682.	4.8	18

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73	Induced swarming in the predatory copepod <i>Heterocope septentrionalis</i> 1. <i>Limnology and Oceanography</i> , 1980, 25, 747-750.	3.1	17
74	<i>Arabidopsis thaliana</i> : A source of candidate disease-resistance genes for <i>Brassica napus</i> . <i>Genome</i> , 2000, 43, 452-460.	2.0	17
75	Molecular markers for yield components in <i>Brassica juncea</i> – do these assist in breeding for high seed yield?. <i>Euphytica</i> , 2005, 144, 157-167.	1.2	16
76	Analysis of the <i>Arabidopsis</i> cell suspension phosphoproteome in response to short-term low temperature and abscisic acid treatment. <i>Physiologia Plantarum</i> , 2007, 129, 687-697.	5.2	16
77	Molecular Basis of the Anaerobic Response in Plants. <i>IUBMB Life</i> , 2001, 51, 79-82.	3.4	15
78	Identification, Mapping, and Economic Evaluation of QTLs Encoding Root Maggot Resistance in <i>Brassica</i> . <i>Crop Science</i> , 2005, 45, crops2005.0371.	1.8	14
79	Quantitative trait loci for early maturity and their potential in breeding for earliness in <i>Brassica juncea</i> . <i>Euphytica</i> , 2007, 154, 101-111.	1.2	13
80	Pollen-mediated gene flow from transgenic safflower (<i>Carthamus tinctorius</i> L.) intended for plant molecular farming to conventional safflower. <i>Environmental Biosafety Research</i> , 2009, 8, 19-32.	1.1	13
81	Detecting and Quantifying the Adventitious Presence of Transgenic Seeds in Safflower, <i>Carthamus tinctorius</i> L.. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 5506-5513.	5.2	10
82	Issues of Fertility or Potential for Fertility in Oats, Olives, the Vigna Group, Ryegrass Species, Safflower, and Sugarcane. , 2005, , 231-255.		8
83	“Genes, Meet Gases” The Role of Plant Nutrition and Genomics in Addressing Greenhouse Gas Emissions. , 2016, , 149-172.		8
84	Genetic mapping of plant disease resistance gene homologues using a minimal <i>Brassica napus</i> L. population. <i>Genome</i> , 1999, 42, 735-743.	2.0	7
85	Improving Nitrogen Use Efficient in Crop Plants Using Biotechnology Approaches. , 2018, , 15-35.		6
86	The impact on nitrogen-efficient phenotypes when aspartate aminotransferase is expressed tissue-specifically in <i>Brassica napus</i> . <i>New Negatives in Plant Science</i> , 2016, 3-4, 1-9.	0.9	5
87	A high-throughput <i>Agrobacterium tumefaciens</i> -mediated transformation system for molecular breeding and functional genomics of rice (<i>Oryza sativa</i> L.). <i>Plant Biotechnology</i> , 2010, 27, 47-58.	1.0	5
88	The <i>Arabidopsis</i> paraquat resistant1 mutant accumulates leucine upon dark treatment. <i>Botany</i> , 2017, 95, 751-761.	1.0	3
89	Hypoxic metabolism in wild rice (<i>Zizania palustris</i>): enzyme induction and metabolite production. <i>Physiologia Plantarum</i> , 1993, 89, 165-171.	5.2	3
90	Molecular cloning of a <i>Brassica napus</i> cysteine protease gene inducible by drought and low temperature stress. <i>Physiologia Plantarum</i> , 1997, 101, 389-397.	5.2	2

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91	Vacuolar H ⁺ -ATPase, but not mitochondrial F1F0-ATPase, is required for NaCl tolerance in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , 2002, 208, 227-232.	1.8	1
92	Evolution of a functionally related lactate dehydrogenase and pyruvate decarboxylase pseudogene complex in maize. <i>Genome</i> , 1999, 42, 1167-1175.	2.0	0