Alan B Bennett

List of Publications by Year
in descending order

141 papers	12,216 citations	14614 66 h-index	26548 107 g-index
145 all docs	145 docs citations	145 times ranked	7701 citing authors

#	Article	IF	Citations
1	Modification of Expansin Protein Abundance in Tomato Fruit Alters Softening and Cell Wall Polymer Metabolism during Ripening. Plant Cell, 1999, 11, 2203-2216.	3.1	439
2	Cooperative disassembly of the celluloseâ€“xyloglucan network of plant cell walls: parallels between cell expansion and fruit ripening. Trends in Plant Science, 1999, 4, 176-183.	4.3	410
3	<i>Uniform ripening</i> Encodes a <i>Golden 2-like</i> Transcription Factor Regulating Tomato Fruit Chloroplast Development. Science, 2012, 336, 1711-1715.	6.0	384
4	Expression of a divergent expansin gene is fruit-specific and ripening-regulated. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 5955-5960.	3.3	374
5	Polygalacturonases: Many Genes in Search of a Function1. Plant Physiology, 1998, 117, 337-343.	2.3	364
6	Temporal Sequence of Cell Wall Disassembly in Rapidly Ripening Melon Fruit1. Plant Physiology, 1998, 117, 345-361.	2.3	278
7	The intersection between cell wall disassembly, ripening, and fruit susceptibility to <i>Botrytis cinerea</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 859-864.	3.3	257
8	Nitrogen fixation in a landrace of maize is supported by a mucilage-associated diazotrophic microbiota. PLoS Biology, 2018, 16, e2006352.	2.6	236
9	Transgenic Expression of Pear PGIP in Tomato Limits Fungal Colonization. Molecular Plant-Microbe Interactions, 2000, 13, 942-950.	1.4	228
10	Molecular cloning of tomato fruit polygalacturonase: Analysis of polygalacturonase mRNA levels during ripening. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 6420-6424.	3.3	217
11	Antisense Acid Invertase (TIV1) Gene Alters Soluble Sugar Composition and Size in Transgenic Tomato Fruit. Plant Physiology, 1996, 112, 1321-1330.	2.3	215
12	Auxin-Regulated Genes Encoding Cell Wall-Modifying Proteins Are Expressed during Early Tomato Fruit Growth. Plant Physiology, 2000, 122, 527-534.	2.3	200
13	In situ isolation of mRNA from individual plant cells: creation of cell-specific cDNA libraries.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 3814-3818.	3.3	194
14	H+-ATPase Activity from Storage Tissue of Beta vulgaris. Plant Physiology, 1984, 74, 538-544.	2.3	192
15	Strangers in the matrix: plant cell walls and pathogen susceptibility. Trends in Plant Science, 2008, 13, 610-617.	4.3	188
16	An Expansin Gene Expressed in Ripening Strawberry Fruit. Plant Physiology, 1999, 121, 1273-1279.	2.3	187
17	Optical measurements of Î”pH and Î”Ï in corn root membrne vesicles: Kinetic analysis of Clâˆ' effects on a proton-translocating ATPase. Journal of Membrane Biology, 1983, 71, 95-107.	1.0	185
18	Sink Metabolism in Tomato Fruit. Plant Physiology, 1991, 95, 1026-1035.	2.3	185

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19	Ethylene regulation of fruit softening and cell wall disassembly in Charentais melon. Journal of Experimental Botany, 2007, 58, 1281-1290.	2.4	177
20	Auxin regulation and spatial localization of an endo-1,4-beta-D-glucanase and a xyloglucan endotransglycosylase in expanding tomato hypocotyls. Plant Journal, 1997, 12, 417-426.	2.8	168
21	Pedicel Breakstrength and Cellulase Gene Expression during Tomato Flower Abscission. Plant Physiology, 1996, 111, 813-820.	2.3	164
22	Higher plant Ca(2+)-ATPase: primary structure and regulation of mRNA abundance by salt.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 9205-9209.	3.3	155
23	Ripening-Regulated Susceptibility of Tomato Fruit to<i>Botrytis cinerea</i>Requires<i>NOR</i>But Not<i>RIN</i>or Ethylene Â Â. Plant Physiology, 2009, 150, 1434-1449.	2.3	152
24	Antisense suppression of tomato endo-1,4-beta-glucanase Cel2 mRNA accumulation increases the force required to break fruit abscission zones but does not affect fruit softening. Plant Molecular Biology, 1999, 40, 615-622.	2.0	150
25	Regulation of Tomato Fruit Polygalacturonase mRNA Accumulation by Ethylene: A Re-Examination1. Plant Physiology, 1998, 116, 1145-1150.	2.3	149
26	Expression of Acid Invertase Gene Controls Sugar Composition in Tomato (Lycopersicon) Fruit. Plant Physiology, 1993, 103, 863-870.	2.3	148
27	Sink Metabolism in Tomato Fruit. Plant Physiology, 1988, 87, 737-740.	2.3	144
28	Characterization of a NO₃^{â"}-Sensitive H⁺-ATPase from Corn Roots. Plant Physiology, 1983, 72, 837-846.	2.3	140
29	QTL analysis of fruit antioxidants in tomato using Lycopersicon pennellii introgression lines. Theoretical and Applied Genetics, 2005, 111, 1396-1408.	1.8	140
30	Polygalacturonase Gene Expression in Ripe Melon Fruit Supports a Role for Polygalacturonase in Ripening-Associated Pectin Disassembly. Plant Physiology, 1998, 117, 363-373.	2.3	138
31	MIP Genes are Down-regulated Under Drought Stress in Nicotiana glauca. Plant and Cell Physiology, 2001, 42, 686-693.	1.5	134
32	A membrane-anchored E-type endo-1,4-Â-glucanase is localized on Golgi and plasma membranes of higher plants. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 4794-4799.	3.3	132
33	Transcriptional Analysis of Polygalacturonase and Other Ripening Associated Genes in Rutgers, <i>rin, nor</i>, and <i>Nr</i> Tomato Fruit. Plant Physiology, 1989, 90, 1372-1377.	2.3	131
34	The publicâ€"private structure of intellectual property ownership in agricultural biotechnology. Nature Biotechnology, 2003, 21, 989-995.	9.4	128
35	Ethylene and ripening-regulated expression and function of fruit cell wall modifying proteins. Plant Science, 2008, 175, 130-136.	1.7	126
36	Detection of Expansin Proteins and Activity during Tomato Fruit Ontogeny. Plant Physiology, 2000, 123, 1583-1592.	2.3	124

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37	Sink Metabolism in Tomato Fruit. Plant Physiology, 1988, 87, 727-730.	2.3	122
38	Simultaneous Transgenic Suppression of LePG and LeExp1 Influences Fruit Texture and Juice Viscosity in a Fresh Market Tomato Variety. Journal of Agricultural and Food Chemistry, 2003, 51, 7450-7455.	2.4	120
39	Distinct Physiological Roles of Fructokinase Isozymes Revealed by Gene-Specific Suppression of Frk1 and Frk2Expression in Tomato. Plant Physiology, 2002, 129, 1119-1126.	2.3	113
40	Enhanced H+ Transport Capacity and ATP Hydrolysis Activity of the Tonoplast H+-ATPase after NaCl Adaptation. Plant Physiology, 1990, 94, 524-530.	2.3	112
41	Structure and expression of an inhibitor of fungal polygalacturonases from tomato. Plant Molecular Biology, 1994, 25, 607-617.	2.0	112
42	Transgenic analysis of tomato endo-beta-1,4-glucanase gene function. Role of cel1 in floral abscission. Plant Journal, 1998, 13, 303-310.	2.8	111
43	Molecular Characterization of a Polygalacturonase Inhibitor from Pyrus communis L. cv Bartlett. Plant Physiology, 1993, 102, 133-138.	2.3	108
44	Constitutively expressed DHAR and MDHAR influence fruit, but not foliar ascorbate levels in tomato. Plant Physiology and Biochemistry, 2011, 49, 1244-1249.	2.8	107
45	A Gel Diffusion Assay for Quantification of Pectin Methylesterase Activity. Analytical Biochemistry, 1998, 264, 149-157.	1.1	101
46	Absence of the endoâ€Î²â€1,4â€glucanases Cel1 and Cel2 reduces susceptibility to <i>Botrytis cinerea</i> in tomato. Plant Journal, 2007, 52, 1027-1040.	2.8	99
47	Polygalacturonase Gene Expression in Rutgers, rin, nor, and Nr Tomato Fruits. Plant Physiology, 1987, 85, 502-507.	2.3	97
48	Sink Metabolism in Tomato Fruit. Plant Physiology, 1988, 87, 731-736.	2.3	97
49	Two Divergent Endo-b-1,4-Glucanase Genes Exhibit Overlapping Expression in Ripening Fruit and Abscising Flowers. Plant Cell, 1994, 6, 1485.	3.1	95
50	H+-ATPase Activity from Storage Tissue of Beta vulgaris. Plant Physiology, 1984, 74, 545-548.	2.3	93
51	Ascorbate Free Radical Reductase mRNA Levels Are Induced by Wounding. Plant Physiology, 1995, 108, 411-418.	2.3	91
52	Polygalacturonase Isozymes and Pectin Depolymerization in Transgenic rin Tomato Fruit. Plant Physiology, 1990, 94, 1882-1886.	2.3	90
53	Expression of a Polygalacturonase Associated with Tomato Seed Germination. Plant Physiology, 1999, 121, 419-428.	2.3	89
54	Leaf Closure in the Venus Flytrap: An Acid Growth Response. Science, 1982, 218, 1120-1122.	6.0	88

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55	Tomato Fructokinases Exhibit Differential Expression and Substrate Regulation1. Plant Physiology, 1998, 117, 85-90.	2.3	87
56	Structural Organization and a Standardized Nomenclature for Plant Endo-1,4-<i>Î²</i>-Glucanases (Cellulases) of Glycosyl Hydrolase Family 9. Plant Physiology, 2007, 144, 1693-1696.	2.3	86
57	Assessment of the Number and Expression of P-Type H+-ATPase Genes in Tomato. Plant Physiology, 1994, 106, 547-557.	2.3	82
58	Divergent Fructokinase Genes Are Differentially Expressed in Tomato. Plant Physiology, 1997, 113, 1379-1384.	2.3	82
59	Mobility of Transgenic Nucleic Acids and Proteins within Grafted Rootstocks for Agricultural Improvement. Frontiers in Plant Science, 2012, 3, 39.	1.7	82
60	Characterization of a Tomato Xyloglucan Endotransglycosylase Gene That Is Down-Regulated by Auxin in Etiolated Hypocotyls. Plant Physiology, 2001, 127, 1180-1192.	2.3	79
61	Molecular Cloning of Tomato Plasma Membrane H⁺-ATPase. Plant Physiology, 1990, 94, 1874-1881.	2.3	76
62	Localization of a Proton-Translocating ATPase on Sucrose Gradients. Plant Physiology, 1982, 70, 1115-1119.	2.3	74
63	An endo-1,4-beta-glucanase expressed at high levels in rapidly expanding tissues. Plant Molecular Biology, 1997, 33, 87-95.	2.0	73
64	Agricultural Biotechnology: Economics, Environment, Ethics, and the Future. Annual Review of Environment and Resources, 2013, 38, 249-279.	5.6	72
65	<i>In Vitro</i> Synthesis and Processing of Tomato Fruit Polygalacturonase. Plant Physiology, 1988, 86, 1057-1063.	2.3	71
66	Introgression into tomato (Lycopersicon esculentum) of the L. chmielewskii sucrose accumulator gene (sucr) controlling fruit sugar composition. Theoretical and Applied Genetics, 1995, 91, 327-333.	1.8	67
67	Strategy for Structural Elucidation of Polysaccharides: Elucidation of a Maize Mucilage that Harbors Diazotrophic Bacteria. Analytical Chemistry, 2019, 91, 7254-7265.	3.2	67
68	Differential Expression of Two Endo-1,4-Î²-Glucanase Genes in Pericarp and Locules of Wild-Type and Mutant Tomato Fruit. Plant Physiology, 1996, 111, 1313-1319.	2.3	65
69	Bayh-Dole: if we knew then what we know now. Nature Biotechnology, 2006, 24, 320-323.	9.4	65
70	Concentrations of Sucrose and Nitrogenous Compounds in the Apoplast of Developing Soybean Seed Coats and Embryos. Plant Physiology, 1984, 75, 181-186.	2.3	60
71	H+-ATPase Activity from Storage Tissue of Beta vulgaris. Plant Physiology, 1985, 78, 495-499.	2.3	60
72	Characterization of Ripening-Regulated cDNAs and Their Expression in Ethylene-Suppressed Charentais Melon Fruit. Plant Physiology, 2000, 122, 977-984.	2.3	60

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73	Derepression of Amino Acid-H⁺ Cotransport in Developing Soybean Embryos. Plant Physiology, 1983, 72, 781-786.	2.3	58
74	Tomato Fruit Acid Invertase Complementary DNA : Nucleotide and Deduced Amino Acid Sequences. Plant Physiology, 1992, 99, 351-353.	2.3	58
75	Expression of a Chimeric Polygalacturonase Gene in Transgenic rin (Ripening Inhibitor) Tomato Fruit Results in Polyuronide Degradation but Not Fruit Softening. Plant Cell, 1989, 1, 53.	3.1	58
76	Genetically engineered crops that fly under the US regulatory radar. Nature Biotechnology, 2014, 32, 1087-1091.	9.4	56
77	Biotinylated proteins as molecular weight standards on Western blots. Analytical Biochemistry, 1986, 152, 329-332.	1.1	55
78	Programmed senescence of plant organs. Cell Death and Differentiation, 1997, 4, 662-670.	5.0	54
79	The contraction of agbiotech product quality innovation. Nature Biotechnology, 2009, 27, 702-704.	9.4	54
80	Synthesis and Processing of Cellulase from Ripening Avocado Fruit. Plant Physiology, 1986, 81, 830-835.	2.3	51
81	Biological nitrogen fixation and prospects for ecological intensification in cereal-based cropping systems. Field Crops Research, 2022, 283, 108541.	2.3	50
82	Analysis of tomato polygalacturonase expression in transgenic tobacco.. Plant Cell, 1990, 2, 1239-1248.	3.1	48
83	The respiratory climacteric is present in Charentais (Cucumis melocv. Reticulatus F1 Alpha) melons ripened on or off the plant. Journal of Experimental Botany, 1995, 46, 1923-1925.	2.4	48
84	Two Plasma Membrane H+-ATPase Genes Expressed in Guard Cells of Vicia faba Are Also Expressed Throughout the Plant. Plant and Cell Physiology, 1996, 37, 650-659.	1.5	48
85	Two Divergent Xyloglucan Endotransglycosylases Exhibit Mutually Exclusive Patterns of Expression in Nasturtium. Plant Physiology, 1996, 110, 493-499.	2.3	46
86	The diageotropica Mutation and Synthetic Auxins Differentially Affect the Expression of Auxin-Regulated Genes in Tomato. Plant Physiology, 1995, 109, 293-297.	2.3	45
87	Transport Properties of the Tomato Fruit Tonoplast. Plant Physiology, 1987, 84, 997-1000.	2.3	44
88	A Model for Nitrogen Fixation in Cereal Crops. Trends in Plant Science, 2020, 25, 226-235.	4.3	43
89	Plant Endo-1,4-Î²-D-glucanases. ACS Symposium Series, 1994, , 100-129.	0.5	42
90	A Single Gene May Encode Differentially Localized Ca 2+ -ATPases in Tomato. Plant Cell, 1996, 8, 1159.	3.1	42

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91	Intellectual Property Resources for International Development in Agriculture. Plant Physiology, 2003, 133, 1666-1670.	2.3	42
92	Solubilization and reconstitution of an anion-sensitive H+-ATPase from corn roots. Journal of Membrane Biology, 1983, 75, 21-31.	1.0	41
93	Regulation of Climacteric Respiration in Ripening Avocado Fruit. Plant Physiology, 1987, 83, 973-976.	2.3	39
94	Sugar Regulates mRNA Abundance of H+-ATPase Gene Family Members in Tomato. Plant Physiology, 1996, 112, 1229-1236.	2.3	35
95	Sink to Source Translocation in Soybean. Plant Physiology, 1984, 74, 434-436.	2.3	34
96	Inheritance and genetic mapping of fruit sucrose accumulation in Lycopersicon chmielewskii. Plant Journal, 1993, 4, 643-650.	2.8	34
97	Characterization of novel glycosyl hydrolases discovered by cell wall glycan directed monoclonal antibody screening and metagenome analysis of maize aerial root mucilage. PLoS ONE, 2018, 13, e0204525.	1.1	34
98	Material Transfer Agreements: A University Perspective. Plant Physiology, 2003, 133, 10-13.	2.3	32
99	An intellectual property sharing initiative in agricultural biotechnology: development of broadly accessible technologies for plant transformation. Plant Biotechnology Journal, 2012, 10, 501-510.	4.1	32
100	Technology transfer in the Americas: common and divergent practices among major research universities and public sector institutions. Journal of Technology Transfer, 2017, 42, 1307-1333.	2.5	32
101	Effects of the Lycopersicon chmielewskii sucrose accumulator gene (sucr) on fruit yield and quality parameters following introgression into tomato. Theoretical and Applied Genetics, 1995, 91, 334-339.	1.8	29
102	Out of the Amazon: Theobroma cacao enters the genomic era. Trends in Plant Science, 2003, 8, 561-563.	4.3	29
103	Transgenic Overexpression of Expansin Influences Particle Size Distribution and Improves Viscosity of Tomato Juice and Paste. Journal of Agricultural and Food Chemistry, 2003, 51, 7465-7471.	2.4	26
104	Access to intellectual property is a major obstacle to developing transgenic horticultural crops. California Agriculture, 2004, 58, 120-126.	0.5	26
105	Biochemical and Genetic Determinants of Cell Wall Disassembly in Ripening Fruit: A General Model. Hortscience: A Publication of the American Society for Hortcultural Science, 2002, 37, 447-450.	0.5	24
106	The emergence of agbiogenerics. Nature Biotechnology, 2015, 33, 819-823.	9.4	21
107	Transgene mobilization and regulatory uncertainty for non-GE fruit products of transgenic rootstocks. Journal of Biotechnology, 2012, 161, 349-353.	1.9	20
108	Transport Properties of the Tomato Fruit Tonoplast. Plant Physiology, 1988, 88, 1097-1103.	2.3	19

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109	Transport Properties of the Tomato Fruit Tonoplast. Plant Physiology, 1987, 84, 993-996.	2.3	18
110	The intellectual property landscape for gene suppression technologies in plants. Nature Biotechnology, 2010, 28, 32-36.	9.4	18
111	Glycoprotein Inhibitors of Fungal Polygalacturonases. Current Plant Science and Biotechnology in Agriculture, 1994, , 399-402.	0.0	18
112	H+-ATPase Activity from Storage Tissue of Beta vulgaris. Plant Physiology, 1987, 83, 569-572.	2.3	17
113	An engineered sorbitol cycle alters sugar composition, not growth, in transformed tobacco. Plant, Cell and Environment, 2006, 29, 1980-1988.	2.8	17
114	Isolation of genes predominantly expressed in guard cells and epidermal cells of Nicotiana glauca. Plant Molecular Biology, 2000, 42, 857-869.	2.0	16
115	Characterization of tomato endo-?-1,4-glucanase Cel1 protein in fruit during ripening and after fungal infection. Planta, 2004, 220, 80-86.	1.6	15
116	Identification of Nitrogen Fixation Genes in Lactococcus Isolated from Maize Using Population Genomics and Machine Learning. Microorganisms, 2020, 8, 2043.	1.6	15
117	Genomic characterization of a diazotrophic microbiota associated with maize aerial root mucilage. PLoS ONE, 2020, 15, e0239677.	1.1	13
118	Diazotrophic bacteria from maize exhibit multifaceted plant growth promotion traits in multiple hosts. PLoS ONE, 2020, 15, e0239081.	1.1	13
119	Role of a Ca2+-ATPase induced by ABA and IAA in the generation of specific Ca2+ signals. Biochemical and Biophysical Research Communications, 2005, 329, 406-415.	1.0	11
120	Alternative transcription initiation sites generate two LCA1 Ca2+-ATPase mRNA transcripts in tomato roots. Plant Molecular Biology, 1999, 40, 133-140.	2.0	10
121	<i>In Vitro</i> Processing of Tomato Proteinase Inhibitor I by Barley Microsomal Membranes. Plant Physiology, 1992, 99, 378-382.	2.3	9
122	Research and adoption of biotechnology strategies could improve California fruit and nut crops. California Agriculture, 2012, 66, 62-69.	0.5	9
123	Taste: Unraveling Tomato Flavor. Current Biology, 2012, 22, R443-R444.	1.8	9
124	[44] H+-ATPase from vacuolar membranes of higher plants. Methods in Enzymology, 1988, 157, 579-590.	0.4	7
125	Modification of Expansin Protein Abundance in Tomato Fruit Alters Softening and Cell Wall Polymer Metabolism during Ripening. Plant Cell, 1999, 11, 2203.	3.1	7
126	The commercialization of biotechnology traits. Plant Science, 2010, 179, 635-644.	1.7	6

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127	Intellectual Property in Agricultural Biotechnology: Strategies for Open Access. , 0, , 325-342.		6
128	A functional arginine residue in the vacuolar H+-ATPase of higher plants. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1023, 119-123.	1.4	4
129	Isolation of RNA and Protein from Guard Cells of Nicotiana glauca. Plant Molecular Biology Reporter, 1999, 17, 371-383.	1.0	4
130	Protein accumulation and rumen stability of wheat Î³â€gliadin fusion proteins in tobacco and alfalfa. Plant Biotechnology Journal, 2015, 13, 974-982.	4.1	4
131	Exotic Germ Plasm or Engineered Genes. ACS Symposium Series, 1995, , 88-99.	0.5	2
132	Do untranslated introns control Ca2+-ATPase isoform dependence on CaM, found in TN and PM?. Biochemical and Biophysical Research Communications, 2003, 312, 1377-1382.	1.0	2
133	Case 5. The Public Intellectual Property Resource for Agriculture (PIPRA). A standard license public sector clearinghouse for agricultural IP. , 0, , 135-142.		2
134	Genetic and Molecular Genetic Regulation of Soluble and Insoluble Carbohydrate Composition in Tomato. , 1992, , 149-165.		2
135	Food Security: Translational Agriculture. Science, 2010, 328, 429-429.	6.0	1
136	Regulation, maturation and function of tomato fruit polygalacturonase. , 1989, , 11-19.		1
137	Intellectual Property and Development of Transgenic Horticultural Crops. , 2011, , 219-231.		1
138	Sidebar: Regulatory status of transgrafted plants is unclear. California Agriculture, 2012, 66, 68-69.	0.5	1
139	Analysis of Tomato Polygalacturonase Expression in Transgenic Tobacco. Plant Cell, 1990, 2, 1239.	3.1	0
140	Anion-Sensitive H+-ATPases from Higher Plant Cells: The Role of Chloride in Stimulating Proton Transport. , 1985, , 175-183.		0
141	The Use of Optical Probes to Monitor the Formation of pH Gradients and Membrane Potential in Tonoplast Membrane Vesicles. , 1985, , 119-128.		0