

# Andrew J Thompson

## List of Publications by Year in descending order

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80  
papers

5,481  
citations

136950

32  
h-index

82547

72  
g-index

82  
all docs

82  
docs citations

82  
times ranked

6032  
citing authors

#	ARTICLE	IF	CITATIONS
1	A naturally occurring epigenetic mutation in a gene encoding an SBP-box transcription factor inhibits tomato fruit ripening. <i>Nature Genetics</i> , 2006, 38, 948-952.	21.4	1,076
2	Ectopic expression of a tomato 9-cis-epoxycarotenoid dioxygenase gene causes over-production of abscisic acid. <i>Plant Journal</i> , 2000, 23, 363-374.	5.7	357
3	Overproduction of Abscisic Acid in Tomato Increases Transpiration Efficiency and Root Hydraulic Conductivity and Influences Leaf Expansion. <i>Plant Physiology</i> , 2007, 143, 1905-1917.	4.8	309
4	Characterization of the ABA-deficient tomato mutant <i>notabilis</i> and its relationship with maize <i>Vp14</i> . <i>Plant Journal</i> , 1999, 17, 427-431.	5.7	266
5	Control of abscisic acid synthesis. <i>Journal of Experimental Botany</i> , 2000, 51, 1563-1574.	4.8	251
6	Does abscisic acid affect strigolactone biosynthesis?. <i>New Phytologist</i> , 2010, 187, 343-354.	7.3	243
7	Abscisic acid biosynthesis in tomato: regulation of zeaxanthin epoxidase and 9-cis-epoxycarotenoid dioxygenase mRNAs by light/dark cycles, water stress and abscisic acid. <i>Plant Molecular Biology</i> , 2000, 42, 833-845.	3.9	241
8	Unravelling rootstock x scion interactions to improve food security. <i>Journal of Experimental Botany</i> , 2015, 66, 2211-2226.	4.8	238
9	Molecular and Genetic Characterization of a Novel Pleiotropic Tomato-Ripening Mutant 1. <i>Plant Physiology</i> , 1999, 120, 383-390.	4.8	202
10	Periodic root branching in <i>Arabidopsis</i> requires synthesis of an uncharacterized carotenoid derivative. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1300-9.	7.1	139
11	Inducible overexpression of oat arginine decarboxylase in transgenic tobacco plants. <i>Plant Journal</i> , 1997, 11, 465-473.	5.7	129
12	Altered Middle Lamella Homogalacturonan and Disrupted Deposition of (1 $\rightarrow$ 5)- $\beta$ -l-Arabinan in the Pericarp of <i>Cnr</i> , a Ripening Mutant of Tomato. <i>Plant Physiology</i> , 2001, 126, 210-221.	4.8	127
13	Ethylene Insensitivity Conferred by the Green-ripe and Never-ripe 2 Ripening Mutants of Tomato. <i>Plant Physiology</i> , 2005, 138, 267-275.	4.8	118
14	Regulation and manipulation of ABA biosynthesis in roots. <i>Plant, Cell and Environment</i> , 2007, 30, 67-78.	5.7	95
15	Guidelines to use tomato in experiments with a controlled environment. <i>Frontiers in Plant Science</i> , 2014, 5, 625.	3.6	93
16	Overexpression of <i>LeNCED1</i> in tomato ( <i>Solanum lycopersicum</i> L.) with the <i>rbcS3C</i> promoter allows recovery of lines that accumulate very high levels of abscisic acid and exhibit severe phenotypes. <i>Plant, Cell and Environment</i> , 2008, 31, 968-981.	5.7	84
17	Regulation and Manipulation of the Biosynthesis of Abscisic Acid, Including the Supply of Xanthophyll Precursors. <i>Journal of Plant Growth Regulation</i> , 2005, 24, 253.	5.1	80
18	Cleavage and recognition pattern of a double-strand-specific endonuclease (I-Crel) encoded by the chloroplast 23S rRNA intron of <i>Chlamydomonas reinhardtii</i> . <i>Gene</i> , 1992, 119, 247-251.	2.2	71

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19	Complementation of notabilis, an abscisic acid-deficient mutant of tomato: importance of sequence context and utility of partial complementation. <i>Plant, Cell and Environment</i> , 2004, 27, 459-471.	5.7	71
20	Opportunities for improving irrigation efficiency with quantitative models, soil water sensors and wireless technology. <i>Journal of Agricultural Science</i> , 2010, 148, 1-16.	1.3	67
21	Structure and expression of a cDNA encoding a putative neoxanthin cleavage enzyme (NCE), isolated from a wilt-related tomato ( <i>Lycopersicon esculentum</i> Mill.) library. <i>Journal of Experimental Botany</i> , 1997, 48, 2111-2112.	4.8	59
22	Can ABA mediate responses of salinity stressed tomato. <i>Environmental and Experimental Botany</i> , 2003, 50, 17-28.	4.2	59
23	Identification of the tomato ABA-deficient mutant sitiens as a member of the ABA-aldehyde oxidase gene family using genetic and genomic analysis. <i>Plant Growth Regulation</i> , 2011, 64, 301-309.	3.4	46
24	Physiological, biochemical and transcriptional analysis of onion bulbs during storage. <i>Annals of Botany</i> , 2012, 109, 819-831.	2.9	46
25	In vitro self-splicing reactions of the chloroplast group I intron Cr.LSU from <i>Chlamydomonas reinhardtii</i> and in vivo manipulation via gene-replacement. <i>Nucleic Acids Research</i> , 1991, 19, 6611-6618.	14.5	44
26	Selective Inhibition of Carotenoid Cleavage Dioxygenases. <i>Journal of Biological Chemistry</i> , 2009, 284, 5257-5264.	3.4	44
27	Double strand break-induced recombination in <i>Chlamydomonas reinhardtii</i> chloroplasts. <i>Nucleic Acids Research</i> , 1996, 24, 3323-3331.	14.5	41
28	Identifying opportunities to improve management of water stress in banana production. <i>Scientia Horticulturae</i> , 2021, 276, 109735.	3.6	40
29	Biochemical characterization and selective inhibition of $\beta$ -carotene cis-trans isomerase D27 and carotenoid cleavage dioxygenase CCD8 on the strigolactone biosynthetic pathway. <i>FEBS Journal</i> , 2015, 282, 3986-4000.	4.7	39
30	Self-splicing of the <i>Chlamydomonas</i> chloroplast psbA introns. <i>Plant Cell</i> , 1991, 3, 1095-1107.	6.6	38
31	Gene note. Structure and expression of a cDNA encoding zeaxanthin epoxidase, isolated from a wilt-related tomato ( <i>Lycopersicon esculentum</i> Mill.) library. <i>Journal of Experimental Botany</i> , 1997, 48, 1749-1750.	4.8	38
32	Automatic Detection of Regions in Spinach Canopies Responding to Soil Moisture Deficit Using Combined Visible and Thermal Imagery. <i>PLoS ONE</i> , 2014, 9, e97612.	2.5	36
33	Structure and expression of a cDNA encoding zeaxanthin epoxidase, isolated from a wilt-related tomato ( <i>Lycopersicon esculentum</i> Mill.) library. <i>Journal of Experimental Botany</i> , 1997, 48, 1749-1750.	4.8	33
34	NCED expression is related to increased ABA biosynthesis and stomatal closure under aluminum stress. <i>Environmental and Experimental Botany</i> , 2021, 185, 104404.	4.2	33
35	Ethylene and 1-Methylcyclopropene Differentially Regulate Gene Expression during Onion Sprout Suppression. <i>Plant Physiology</i> , 2011, 156, 1639-1652.	4.8	31
36	Overproduction of ABA in rootstocks alleviates salinity stress in tomato shoots. <i>Plant, Cell and Environment</i> , 2021, 44, 2966-2986.	5.7	30

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37	A Chloroplast Group I Intron Undergoes the First Step of Reverse Splicing into Host Cytoplasmic 5 <sup>8</sup> S rRNA. <i>Journal of Molecular Biology</i> , 1994, 236, 455-468.	4.2	29
38	Impact of overexpression of 9-cis-epoxycarotenoid dioxygenase on growth and gene expression under salinity stress. <i>Plant Science</i> , 2020, 295, 110268.	3.6	29
39	Multi-stakeholder analysis to improve agricultural water management policy and practice in Malta. <i>Agricultural Water Management</i> , 2020, 229, 105920.	5.6	29
40	A member of the <i>TERMINAL FLOWER 1/CENTRORADIALIS</i> gene family controls sprout growth in potato tubers. <i>Journal of Experimental Botany</i> , 2019, 70, 835-843.	4.8	26
41	mRNA levels of four tomato ( <i>Lycopersicon esculentum</i> Mill. L.) genes related to fluctuating plant and soil water status. <i>Plant, Cell and Environment</i> , 1995, 18, 773-780.	5.7	24
42	Overaccumulation of abscisic acid in transgenic tomato plants increases the risk of hydraulic failure. <i>Plant, Cell and Environment</i> , 2020, 43, 548-562.	5.7	24
43	Transcriptional and posttranscriptional regulation of seed storage-protein gene expression in pea ( <i>Pisum sativum</i> L.). <i>Planta</i> , 1989, 179, 279-287.	3.2	21
44	New insights into the effects of ethylene on ABA catabolism, sweetening and dormancy in stored potato tubers. <i>Postharvest Biology and Technology</i> , 2021, 173, 111420.	6.0	21
45	Tetracycline-dependent activation of an upstream promoter reveals transcriptional interference between tandem genes within T-DNA in tomato. , 1997, 34, 687-692.		20
46	Toxicity symptoms caused by high expression of Tet repressor in tomato ( <i>Lycopersicon esculentum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.7	19
47	The promoter from SIREO, a highly-expressed, root-specific <i>Solanum lycopersicum</i> gene, directs expression to cortex of mature roots. <i>Functional Plant Biology</i> , 2008, 35, 1224.	2.1	19
48	Environmental, developmental, and genetic factors controlling root system architecture. <i>Biotechnology and Genetic Engineering Reviews</i> , 2014, 30, 95-112.	6.2	18
49	Resequencing at 40-Fold Depth of the Parental Genomes of a <i>Solanum lycopersicum</i> × <i>S. pimpinellifolium</i> Recombinant Inbred Line Population and Characterization of Frame-Shift InDels That Are Highly Likely to Perturb Protein Function. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 971-981.	1.8	18
50	A photoimmobilisation strategy that maximises exploration of chemical space in small molecule affinity selection and target discovery. <i>Chemical Communications</i> , 2007, , 2808.	4.1	17
51	A rigorous approach of determining FAO56 dual crop coefficient using soil sensor measurements and inverse modeling techniques. <i>Agricultural Water Management</i> , 2011, 98, 1081-1090.	5.6	17
52	Fructans redistribution prior to sprouting in stored onion bulbs is a potential marker for dormancy break. <i>Postharvest Biology and Technology</i> , 2019, 149, 221-234.	6.0	17
53	The mechanism of root growth inhibition by the endocrine disruptor bisphenol A (BPA). <i>Environmental Pollution</i> , 2020, 257, 113516.	7.5	17
54	Expression of Pea Legumin Sequences in Pea, Nicotiana and Yeast. <i>Biochemie Und Physiologie Der Pflanzen</i> , 1988, 183, 183-197.	0.5	15

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55	Diurnal control of the drought-inducible putative histone H1 gene in tomato ( <i>Lycopersicon</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TFS	4.8	15
56	Genetic analysis and FISH mapping of the Colourless non-ripening locus of tomato. Theoretical and Applied Genetics, 2002, 104, 165-170.	3.6	15
57	ROOTSTOCK-MEDIATED VARIATION IN TOMATO VEGETATIVE GROWTH UNDER DROUGHT, SALINITY AND SOIL IMPEDANCE STRESSES. Acta Horticulturae, 2015, , 141-146.	0.2	13
58	Transcriptome and phytohormone changes associated with ethylene-induced onion bulb dormancy. Postharvest Biology and Technology, 2020, 168, 111267.	6.0	13
59	Promotion of Germination Using Hydroxamic Acid Inhibitors of 9-cis-Epoxycarotenoid Dioxygenase. Frontiers in Plant Science, 2017, 8, 357.	3.6	11
60	Differential Expression of Seed Storage Protein Genes in the Pea legl Subfamily; Sequence of Gene legK. Biochemie Und Physiologie Der Pflanzen, 1991, 187, 1-12.	0.5	9
61	A loss-of-function allele of a TAC1-like gene (SITAC1) located on tomato chromosome 10 is a candidate for the Erectoid leaf (Erl) mutation. Euphytica, 2019, 215, 1.	1.2	9
62	<i>De novo</i> genome assembly of <i>Solanum sitiens</i> reveals structural variation associated with drought and salinity tolerance. Bioinformatics, 2021, 37, 1941-1945.	4.1	9
63	Investigation of Water Dynamics and the Effect of Evapotranspiration on Grain Yield of Rainfed Wheat and Barley under a Mediterranean Environment: A Modelling Approach. PLoS ONE, 2015, 10, e0131360.	2.5	9
64	Elevated CO2 and high endogenous ABA level alleviate PEG-induced short-term osmotic stress in tomato plants. Environmental and Experimental Botany, 2022, 194, 104763.	4.2	9
65	Nuclear "Run-On" Transcription Assays. , 1995, 49, 229-238.		8
66	Improving the Tea Withering Process Using Ethylene or UV-C. Journal of Agricultural and Food Chemistry, 2021, 69, 13596-13607.	5.2	8
67	Identification of novel stress-responsive biomarkers from gene expression datasets in tomato roots. Functional Plant Biology, 2016, 43, 783.	2.1	7
68	Self-Splicing of the Chlamydomonas Chloroplast psbA Introns. Plant Cell, 1991, 3, 1095.	6.6	6
69	Kinetic Characterisation of a Single Chain Antibody against the Hormone Abscisic Acid: Comparison with Its Parental Monoclonal. PLoS ONE, 2016, 11, e0152148.	2.5	6
70	BIFURCATE FLOWER TRUSS: a novel locus controlling inflorescence branching in tomato contains a defective MAP kinase gene. Journal of Experimental Botany, 2018, 69, 2581-2593.	4.8	6
71	Control of waterâ€use efficiency by florigen. Plant, Cell and Environment, 2020, 43, 76-86.	5.7	6
72	Developing a water strategy for sustainable irrigated agriculture in Mediterranean island communities â€“ Insights from Malta. Outlook on Agriculture, 2019, 48, 143-151.	3.4	5

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73	Improving Soil and Water Management for Agriculture: Insights and Innovation from Malta. MCAST Journal of Applied Research & Practice, 2017, 1, 40-59.	0.1	5
74	ASSOCIATION OF GENE EXPRESSION DATA WITH DORMANCY AND SPROUT SUPPRESSION IN ONION BULBS USING A NEWLY DEVELOPED ONION MICROARRAY. Acta Horticulturae, 2012, , 169-174.	0.2	4
75	Phytotoxic effects of selected N-benzyl-benzoylhydroxamic acid metallo-oxygenase inhibitors: investigation into mechanism of action. New Journal of Chemistry, 2013, 37, 3461.	2.8	4
76	Function and Stability of Abscisic Acid Acyl Hydrazone Conjugates by LC-MS2of ex Vivo Samples. Bioconjugate Chemistry, 2007, 18, 1355-1359.	3.6	3
77	MODIFYING CHRYSANTHEMUM (DENDRANTHEMA GRANDIFLORUM) GROWTH HABIT BY GENETIC MANIPULATION. Acta Horticulturae, 2000, , 319-322.	0.2	2
78	Diurnal control of the drought-inducible putative histone H1 gene in tomato (Lycopersicon) Tj ETQq0 0 0 rgBT /Overlock 10 Tj 50 542 T	4.8	2
79	Missense mutation of a class B heat shock factor is responsible for the tomato bushy root-2 phenotype. Molecular Horticulture, 2022, 2, .	5.8	2
80	TRANSCRIPTIONAL ANALYSIS SUGGESTS SPROUT SUPPRESSION OF ONION DURING STORAGE USING ETHYLENE AND/OR 1-MCP IS MEDIATED VIA DIFFERENTIAL MODES OF ACTION. Acta Horticulturae, 2012, , 175-182.	0.2	1