

Mark Davey

List of Publications by Year in descending order

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41
papers

7,928
citations

201575

27
h-index

276775

41
g-index

41
all docs

41
docs citations

41
times ranked

8906
citing authors

#	ARTICLE	IF	CITATIONS
1	Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , 2018, 361, .	6.0	2,424
2	Plant L-ascorbic acid: chemistry, function, metabolism, bioavailability and effects of processing. <i>Journal of the Science of Food and Agriculture</i> , 2000, 80, 825-860.	1.7	1,076
3	Catalase is a sink for H ₂ O ₂ and is indispensable for stress defence in C ₃ plants. <i>EMBO Journal</i> , 1997, 16, 4806-4816.	3.5	1,046
4	The transcriptional landscape of polyploid wheat. <i>Science</i> , 2018, 361, .	6.0	768
5	A Mutation of the Mitochondrial ABC Transporter <i>Sta1</i> Leads to Dwarfism and Chlorosis in the <i>Arabidopsis</i> Mutant <i>stark</i> . <i>Plant Cell</i> , 2001, 13, 89-100.	3.1	253
6	Genome-Wide SNP Detection, Validation, and Development of an 8K SNP Array for Apple. <i>PLoS ONE</i> , 2012, 7, e31745.	1.1	249
7	Identification and stability of QTLs for fruit quality traits in apple. <i>Tree Genetics and Genomes</i> , 2008, 4, 647-661.	0.6	182
8	Ascorbate Biosynthesis in <i>Arabidopsis</i> Cell Suspension Culture. <i>Plant Physiology</i> , 1999, 121, 535-544.	2.3	165
9	âœA draft <i>Musa balbisiana</i> genome sequence for molecular genetics in polyploid, inter- and intra-specific <i>Musa</i> hybridsâœ. <i>BMC Genomics</i> , 2013, 14, 683.	1.2	159
10	Isolation of a cDNA Coding for L-Galactono-â³-Lactone Dehydrogenase, an Enzyme Involved in the Biosynthesis of Ascorbic Acid in Plants. <i>Journal of Biological Chemistry</i> , 1997, 272, 30009-30016.	1.6	136
11	Regulation of fruit ascorbic acid concentrations during ripening in high and low vitamin C tomato cultivars. <i>BMC Plant Biology</i> , 2012, 12, 239.	1.6	106
12	Genetic Control of Fruit Vitamin C Contents. <i>Plant Physiology</i> , 2006, 142, 343-351.	2.3	103
13	Application of Visible and Near-Infrared Reflectance Spectroscopy (Vis/NIRS) to Determine Carotenoid Contents in Banana (<i>Musa</i> spp.) Fruit Pulp. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 1742-1751.	2.4	97
14	Genetic variability in <i>Musa</i> fruit provitamin A carotenoids, lutein and mineral micronutrient contents. <i>Food Chemistry</i> , 2009, 115, 806-813.	4.2	94
15	NaCl and CuSO ₄ treatments trigger distinct oxidative defence mechanisms in <i>Nicotiana glauca</i> L. <i>Plant, Cell and Environment</i> , 1999, 22, 387-396.	2.8	91
16	â³-Glutamyl Transpeptidase in Transgenic Tobacco Plants. Cellular Localization, Processing, and Biochemical Properties. <i>Plant Physiology</i> , 2002, 128, 1109-1119.	2.3	91
17	Allelic Variation in Paralogs of GDP-L-Galactose Phosphorylase Is a Major Determinant of Vitamin C Concentrations in Apple Fruit. <i>Plant Physiology</i> , 2012, 160, 1613-1629.	2.3	81
18	Analysis of Ascorbate in Plant Tissues by High-Performance Capillary Zone Electrophoresis. <i>Analytical Biochemistry</i> , 1996, 239, 8-19.	1.1	80

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19	Relationship of apple vitamin C and antioxidant contents to harvest date and postharvest pathogen infection. <i>Journal of the Science of Food and Agriculture</i> , 2007, 87, 802-813.	1.7	80
20	Determining the Potential To Breed for Enhanced Antioxidant Status in <i>Malus</i> : Mean Inter- and Intravarietal Fruit Vitamin C and Glutathione Contents at Harvest and Their Evolution during Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 8031-8038.	2.4	71
21	Oxidative stress, phospholipid loss and lipid hydrolysis during drying and storage of intermediate seeds. <i>Physiologia Plantarum</i> , 2006, 127, 192-204.	2.6	70
22	Sampling Strategies and Variability in Fruit Pulp Micronutrient Contents of West and Central African Bananas and Plantains (<i>Musa</i> Species). <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2633-2644.	2.4	64
23	Methods for the efficient quantification of fruit provitamin A contents. <i>Journal of Chromatography A</i> , 2006, 1136, 176-184.	1.8	56
24	Heterologous oligonucleotide microarrays for transcriptomics in a non-model species; a proof-of-concept study of drought stress in <i>Musa</i> . <i>BMC Genomics</i> , 2009, 10, 436.	1.2	56
25	Ascorbic Acid Concentration in Cv. Conference Pears during Fruit Development and Postharvest Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 4757-4763.	2.4	50
26	Simultaneous high-performance capillary electrophoresis analysis of the reduced and oxidised forms of ascorbate and glutathione. <i>Biomedical Applications</i> , 1997, 697, 269-276.	1.7	47
27	Bioaccessibility of provitamin A carotenoids in bananas (<i>Musa</i> spp.) and derived dishes in African countries. <i>Food Chemistry</i> , 2012, 133, 1471-1477.	4.2	47
28	Genetic diversity, population structure, and linkage disequilibrium of elite and local apple accessions from Belgium using the IRSC array. <i>Tree Genetics and Genomes</i> , 2017, 13, 1.	0.6	31
29	A High-Performance Liquid Chromatography Radio Method for Determination of L-Ascorbic Acid and Guanosine 5'-Diphosphate-L-Galactose, Key Metabolites of the Plant Vitamin C Pathway. <i>Analytical Biochemistry</i> , 2001, 294, 161-168.	1.1	22
30	Purification of the Alkaloid Lycorine and Simultaneous Analysis of Ascorbic Acid and Lycorine by Micellar Electrokinetic Capillary Chromatography. <i>Analytical Biochemistry</i> , 1998, 257, 80-88.	1.1	19
31	<i>Botrytis cinerea</i> differentially induces postharvest antioxidant responses in 'Braeburn' and 'Golden Delicious' apple fruit. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 5662-5670.	1.7	19
32	A Mutation of the Mitochondrial ABC Transporter <i>Sta1</i> Leads to Dwarfism and Chlorosis in the <i>Arabidopsis</i> Mutant <i>starik</i> . <i>Plant Cell</i> , 2001, 13, 89.	3.1	17
33	Considerations to prevent the breakdown and loss of fruit carotenoids during extraction and analysis in <i>Musa</i> . <i>Journal of Chromatography A</i> , 2009, 1216, 5759-5762.	1.8	15
34	A Phenotypic, Molecular and Biochemical Characterization of the First Cisgenic Scab-Resistant Apple Variety 'Gala'. <i>Plant Molecular Biology Reporter</i> , 2014, 32, 679-690.	1.0	15
35	Quantitative derivatization and high-performance liquid chromatographic analysis of cyanobacterial heterocyst-type glycolipids. <i>Analytical Biochemistry</i> , 1992, 206, 323-327.	1.1	9
36	Content and Retention of Provitamin A Carotenoids Following Ripening and Local Processing of Four Popular <i>Musa</i> Cultivars from Eastern Democratic Republic of Congo. <i>Sustainable Agriculture Research</i> , 2012, 2, 60.	0.2	9

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37	Semipreparative isolation of individual cyanobacterial heterocyst-type glycolipids by reverse-phase high-performance liquid chromatography. <i>Analytical Biochemistry</i> , 1992, 206, 226-230.	1.1	8
38	Real-time PCR as a promising tool to monitor growth of <i>Venturia</i> spp. in scab-susceptible and -resistant apple leaves. <i>European Journal of Plant Pathology</i> , 2012, 134, 821.	0.8	8
39	A systematic evaluation of protocols for a proteomics analysis of (lyophilized) fruit tissues. <i>Electrophoresis</i> , 2014, 35, 1395-1405.	1.3	7
40	Direct measurement of ascorbic acid biosynthesis in <i>Arabidopsis</i> cell suspension culture using capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999, 853, 381-389.	1.8	4
41	Sylleptic branching in winter-headed apple (<i>Malus domestica</i>) trees: accession-dependent responses and their relationships with other tree architectural characteristics. <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	0.6	3