Gregory A Gambetta

List of Publications by Year
in descending order

46 papers	2,876 citations	201575 27 h-index	214721 47 g-index
50 all docs	50 docs citations	50 times ranked	3179 citing authors

#	Article	IF	Citations
1	Stomatal responses in grapevine become increasingly more tolerant to low water potentials throughout the growing season. Plant Journal, 2022, 109, 804-815.	2.8	19
2	Connection matters: exploring the implications of scionâ€“rootstock alignment in grafted grapevines. Australian Journal of Grape and Wine Research, 2022, 28, 561-571.	1.0	3
3	Using Î´¹³C and hydroscapes for discriminating cultivar specific drought responses. Oeno One, 2022, 56, 239-250.	0.7	5
4	Variety-specific response of bulk stomatal conductance of grapevine canopies to changes in net radiation, atmospheric demand, and drought stress.. Oeno One, 2022, 56, 205-222.	0.7	1
5	Nighttime transpiration represents a negligible part of water loss and does not increase the risk of water stress in grapevine. Plant, Cell and Environment, 2021, 44, 387-398.	2.8	33
6	Seasonal and long-term consequences of esca grapevine disease on stem xylem integrity. Journal of Experimental Botany, 2021, 72, 3914-3928.	2.4	16
7	Global warming and wine quality: are we close to the tipping point?. Oeno One, 2021, 55, 353-361.	0.7	22
8	Grapevines under drought do not express esca leaf symptoms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
9	Overâ€accumulation of abscisic acid in transgenic tomato plants increases the risk of hydraulic failure. Plant, Cell and Environment, 2020, 43, 548-562.	2.8	24
10	Drought activates MYB41 orthologs and induces suberization of grapevine fine roots. Plant Direct, 2020, 4, e00278.	0.8	16
11	Behind the curtain of the compartmentalization process: Exploring how xylem vessel diameter impacts vascular pathogen resistance. Plant, Cell and Environment, 2020, 43, 2782-2796.	2.8	21
12	The physiology of drought stress in grapevine: towards an integrative definition of drought tolerance. Journal of Experimental Botany, 2020, 71, 4658-4676.	2.4	173
13	Drought stress modulates cuticular wax composition of the grape berry. Journal of Experimental Botany, 2020, 71, 3126-3141.	2.4	57
14	The sequence and thresholds of leaf hydraulic traits underlying grapevine varietal differences in drought tolerance. Journal of Experimental Botany, 2020, 71, 4333-4344.	2.4	67
15	Exploring the Hydraulic Failure Hypothesis of Esca Leaf Symptom Formation. Plant Physiology, 2019, 181, 1163-1174.	2.3	32
16	Merging genotypes: graft union formation and scionâ€“rootstock interactions. Journal of Experimental Botany, 2019, 70, 747-755.	2.4	93
17	Modelling grape growth in relation to whole-plant carbon and water fluxes. Journal of Experimental Botany, 2019, 70, 2505-2521.	2.4	45
18	Response and Recovery of Grapevine to Water Deficit: From Genes to Physiology. Compendium of Plant Genomes, 2019, , 223-245.	0.3	8

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19	The Genomics of Grape Berry Ripening. Compendium of Plant Genomes, 2019, , 247-274.	0.3	4
20	Gas exchange, root hydraulic conductivity, water use efficiency and the growth of <i>Toona ciliata</i> clones and seedlings. Ciencia Florestal, 2019, 29, 715-727.	0.1	1
21	Drought will not leave your glass empty: Low risk of hydraulic failure revealed by long-term drought observations in worldâ€™s top wine regions. Science Advances, 2018, 4, eaao6969.	4.7	107
22	Dissecting the rootstock control of scion transpiration using model-assisted analyses in grapevine. Tree Physiology, 2018, 38, 1026-1040.	1.4	44
23	A 3-D functionalâ€“structural grapevine model that couples the dynamics of water transport with leaf gas exchange. Annals of Botany, 2018, 121, 833-848.	1.4	40
24	An inconvenient truth about xylem resistance to embolism in the model species for refilling Laurus nobilis L.. Annals of Forest Science, 2018, 75, 1.	0.8	53
25	Varietal responses to soil water deficit: first results from a common-garden vineyard near Bordeaux France. E3S Web of Conferences, 2018, 50, 01043.	0.2	3
26	Structure and transcriptional regulation of the major intrinsic protein gene family in grapevine. BMC Genomics, 2018, 19, 248.	1.2	43
27	Ethylene receptors and related proteins in climacteric and non-climacteric fruits. Plant Science, 2018, 276, 63-72.	1.7	79
28	Aquaporins and Root Water Uptake. Signaling and Communication in Plants, 2017, , 133-153.	0.5	47
29	Genome-wide analysis of cis-regulatory element structure and discovery of motif-driven gene co-expression networks in grapevine. DNA Research, 2017, 24, dsw061.	1.5	35
30	Monitoring Xylem Hydraulic Pressure in Woody Plants. Bio-protocol, 2017, 7, e2580.	0.2	3
31	Water Stress and Grape Physiology in the Context of Global Climate Change. Journal of Wine Economics, 2016, 11, 168-180.	0.4	29
32	The influence of grapevine rootstocks on scion growth and drought resistance. Theoretical and Experimental Plant Physiology, 2016, 28, 143-157.	1.1	85
33	Characterization of major ripening events during softening in grape: turgor, sugar accumulation, abscisic acid metabolism, colour development, and their relationship with growth. Journal of Experimental Botany, 2016, 67, 709-722.	2.4	110
34	ABA-mediated responses to water deficit separate grapevine genotypes by their genetic background. BMC Plant Biology, 2016, 16, 91.	1.6	54
35	Evidence for Hydraulic Vulnerability Segmentation and Lack of Xylem Refilling under Tension. Plant Physiology, 2016, 172, 1657-1668.	2.3	132
36	Effects of Leaf Removal and Applied Water on Flavonoid Accumulation in Grapevine (<i>Vitis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T 8118-8127.	2.4	46

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37	Abscisic acid transcriptomic signaling varies with grapevine organ. BMC Plant Biology, 2016, 16, 72.	1.6	45
38	Water Transport Properties of the Grape Pedicel during Fruit Development: Insights into Xylem Anatomy and Function Using Microtomography. Plant Physiology, 2015, 168, 1590-1602.	2.3	48
39	A revised and unified pressure-clamp/relaxation theory for studying plant cell water relations with pressure probes: In-situ determination of cell volume for calculation of volumetric elastic modulus and hydraulic conductivity. Journal of Theoretical Biology, 2014, 359, 80-91.	0.8	1
40	Water Uptake along the Length of Grapevine Fine Roots: Developmental Anatomy, Tissue-Specific Aquaporin Expression, and Pathways of Water Transport Â Â. Plant Physiology, 2013, 163, 1254-1265.	2.3	109
41	Genomic <scp>DNA</scp>â€based absolute quantification of gene expression in <i>Vitis</i>. Physiologia Plantarum, 2013, 148, 334-343.	2.6	4
42	Selective sweep at the Rpv3 locus during grapevine breeding for downy mildew resistance. Theoretical and Applied Genetics, 2012, 124, 277-286.	1.8	116
43	Sugar and abscisic acid signaling orthologs are activated at the onset of ripening in grape. Planta, 2010, 232, 219-234.	1.6	183
44	Expansion and subfunctionalisation of flavonoid 3',5'-hydroxylases in the grapevine lineage. BMC Genomics, 2010, 11, 562.	1.2	93
45	Water deficits accelerate ripening and induce changes in gene expression regulating flavonoid biosynthesis in grape berries. Planta, 2007, 227, 101-112.	1.6	527
46	Targeted Mutations in a Trametes villosa Laccase. Journal of Biological Chemistry, 1999, 274, 12372-12375.	1.6	172