# Gregory A Gambetta

List of Publications by Year
in descending order



| 46 | 2,876 | 201575<br>27 | 214721<br>47 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 50 | 50 | 50 | 3179 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Water deficits accelerate ripening and induce changes in gene expression regulating flavonoid biosynthesis in grape berries. Planta, 2007, 227, 101-112. | 1.6 | 527 |
| 2 | Sugar and abscisic acid signaling orthologs are activated at the onset of ripening in grape. Planta, 2010, 232, 219-234. | 1.6 | 183 |
| 3 | 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 |
| 4 | Targeted Mutations in a Trametes villosa Laccase. Journal of Biological Chemistry, 1999, 274, 12372-12375. | 1.6 | 172 |
| 5 | Evidence for Hydraulic Vulnerability Segmentation and Lack of Xylem Refilling under Tension. Plant Physiology, 2016, 172, 1657-1668. | 2.3 | 132 |
| 6 | Selective sweep at the Rpv3 locus during grapevine breeding for downy mildew resistance. Theoretical and Applied Genetics, 2012, 124, 277-286. | 1.8 | 116 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Expansion and subfunctionalisation of flavonoid 3',5'-hydroxylases in the grapevine lineage. BMC Genomics, 2010, 11, 562. | 1.2 | 93 |
| 11 | Merging genotypes: graft union formation and scionâ€“rootstock interactions. Journal of Experimental Botany, 2019, 70, 747-755. | 2.4 | 93 |
| 12 | The influence of grapevine rootstocks on scion growth and drought resistance. Theoretical and Experimental Plant Physiology, 2016, 28, 143-157. | 1.1 | 85 |
| 13 | Ethylene receptors and related proteins in climacteric and non-climacteric fruits. Plant Science, 2018, 276, 63-72. | 1.7 | 79 |
| 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 | Drought stress modulates cuticular wax composition of the grape berry. Journal of Experimental Botany, 2020, 71, 3126-3141. | 2.4 | 57 |
| 16 | ABA-mediated responses to water deficit separate grapevine genotypes by their genetic background. BMC Plant Biology, 2016, 16, 91. | 1.6 | 54 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Aquaporins and Root Water Uptake. Signaling and Communication in Plants, 2017, , 133-153. | 0.5 | 47 |
| 20 | Effects of Leaf Removal and Applied Water on Flavonoid Accumulation in Grapevine (<i>Vitis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 8118-8127. | 2.4 | 46 |
| 21 | Abscisic acid transcriptomic signaling varies with grapevine organ. BMC Plant Biology, 2016, 16, 72. | 1.6 | 45 |
| 22 | Modelling grape growth in relation to whole-plant carbon and water fluxes. Journal of Experimental Botany, 2019, 70, 2505-2521. | 2.4 | 45 |
| 23 | Dissecting the rootstock control of scion transpiration using model-assisted analyses in grapevine. Tree Physiology, 2018, 38, 1026-1040. | 1.4 | 44 |
| 24 | Structure and transcriptional regulation of the major intrinsic protein gene family in grapevine. BMC Genomics, 2018, 19, 248. | 1.2 | 43 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Exploring the Hydraulic Failure Hypothesis of Esca Leaf Symptom Formation. Plant Physiology, 2019, 181, 1163-1174. | 2.3 | 32 |
| 29 | Water Stress and Grape Physiology in the Context of Global Climate Change. Journal of Wine Economics, 2016, 11, 168-180. | 0.4 | 29 |
| 30 | 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 |
| 31 | 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 |
| 32 | Global warming and wine quality: are we close to the tipping point?. Oeno One, 2021, 55, 353-361. | 0.7 | 22 |
| 33 | 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 |
| 34 | 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 |
| 35 | Drought activates MYB41 orthologs and induces suberization of grapevine fine roots. Plant Direct, 2020, 4, e00278. | 0.8 | 16 |
| 36 | Seasonal and long-term consequences of esca grapevine disease on stem xylem integrity. Journal of Experimental Botany, 2021, 72, 3914-3928. | 2.4 | 16 |

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|---|---|---|---|
| 37 | Response and Recovery of Grapevine to Water Deficit: From Genes to Physiology. Compendium of Plant Genomes, 2019, , 223-245. | 0.3 | 8 |
| 38 | Using Î´<sup>13</sup>C and hydroscapes for discriminating cultivar specific drought responses. Oeno One, 2022, 56, 239-250. | 0.7 | 5 |
| 39 | Genomic <scp>DNA</scp>â€based absolute quantification of gene expression in <i>Vitis</i>. Physiologia Plantarum, 2013, 148, 334-343. | 2.6 | 4 |
| 40 | The Genomics of Grape Berry Ripening. Compendium of Plant Genomes, 2019, , 247-274. | 0.3 | 4 |
| 41 | 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 |
| 42 | Monitoring Xylem Hydraulic Pressure in Woody Plants. Bio-protocol, 2017, 7, e2580. | 0.2 | 3 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |