John P Moore

List of Publications by Citations

49 papers	1,446 citations	21 h-index	37 g-index
60 ext. papers	1,817 ext. citations	5.8 avg, IF	4.64 L-index

#	Paper	IF	Citations
49	Adaptations of higher plant cell walls to water loss: drought vs desiccation. *Physiologia Plantarum*, **2008**, 134, 237-45	4.6	174
48	Towards a systems-based understanding of plant desiccation tolerance. *Trends in Plant Science*, **2009**, 14, 110-7	13.1	144
47	Programming desiccation-tolerance: from plants to seeds to resurrection plants. *Current Opinion in Plant Biology*, **2011**, 14, 340-5	9.9	121
46	Response of the leaf cell wall to desiccation in the resurrection plant Myrothamnus flabellifolius. *Plant Physiology*, **2006**, 141, 651-62	6.6	105
45	Arabinose-rich polymers as an evolutionary strategy to plasticize resurrection plant cell walls against desiccation. *Planta*, **2013**, 237, 739-54	4.7	98
44	The predominant polyphenol in the leaves of the resurrection plant Myrothamnus flabellifolius, 3,4,5 tri-O-galloylquinic acid, protects membranes against desiccation and free radical-induced oxidation. *Biochemical Journal*, **2005**, 385, 301-8	3.8	87
43	A role for pectin-associated arabinans in maintaining the flexibility of the plant cell wall during water deficit stress. *Plant Signaling and Behavior*, **2008**, 3, 102-4	2.5	82
42	An overview of the biology of the desiccation-tolerant resurrection plant Myrothamnus flabellifolia. *Annals of Botany*, **2007**, 99, 211-7	4.1	60
41	Pectic-[illegible](1,4)-galactan, extensin and arabinogalactan-protein epitopes differentiate ripening stages in wine and table grape cell walls. *Annals of Botany*, **2014**, 114, 1279-94	4.1	43
40	Dissecting the polysaccharide-rich grape cell wall changes during winemaking using combined high-throughput and fractionation methods. *Carbohydrate Polymers*, **2015**, 133, 567-77	10.3	37
39	Following the compositional changes of fresh grape skin cell walls during the fermentation process in the presence and absence of maceration enzymes. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 2798-810	5.7	37
38	Plant Immunity Is Compartmentalized and Specialized in Roots. *Frontiers in Plant Science*, **2018**, 9, 1692	6.2	35
37	Profiling the main cell wall polysaccharides of tobacco leaves using high-throughput and fractionation techniques. *Carbohydrate Polymers*, **2012**, 88, 939-949	10.3	29
36	The South African and Namibian populations of the resurrection plant Myrothamnus flabellifolius are genetically distinct and display variation in their galloylquinic acid composition. *Journal of Chemical Ecology*, **2005**, 31, 2823-34	2.7	29
35	Desiccation-induced ultrastructural and biochemical changes in the leaves of the resurrection plant Myrothamnus flabellifolia. *Australian Journal of Botany*, **2007**, 55, 482	1.2	27
34	Profiling the main cell wall polysaccharides of grapevine leaves using high-throughput and fractionation methods. *Carbohydrate Polymers*, **2014**, 99, 190-8	10.3	26
33	Dissecting the polysaccharide-rich grape cell wall matrix using recombinant pectinases during winemaking. *Carbohydrate Polymers*, **2016**, 152, 510-519	10.3	24

32	Overexpression of the grapevine PGIP1 in tobacco results in compositional changes in the leaf arabinoxyloglucan network in the absence of fungal infection. *BMC Plant Biology*, **2013**, 13, 46	5.3	23
31	Deconstructing Wine Grape Cell Walls with Enzymes During Winemaking: New Insights from Glycan Microarray Technology. *Molecules*, **2019**, 24,	4.8	23
30	Investigating the relationship between cell wall polysaccharide composition and the extractability of grape phenolic compounds into Shiraz wines. Part II: Extractability during fermentation into wines made from grapes of different ripeness levels. *Food Chemistry*, **2019**, 278, 26-35	8.5	22
29	Investigating the relationship between grape cell wall polysaccharide composition and the extractability of phenolic compounds into Shiraz wines. Part I: Vintage and ripeness effects. *Food Chemistry*, **2019**, 278, 36-46	8.5	21
28	Profiling the Hydrolysis of Isolated Grape Berry Skin Cell Walls by Purified Enzymes. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 8267-74	5.7	18
27	Root extracellular traps versus neutrophil extracellular traps in host defence, a case of functional convergence?. *Biological Reviews*, **2019**, 94, 1685-1700	13.5	16
26	Combining hydrothermal pretreatment with enzymes de-pectinates and exposes the innermost xyloglucan-rich hemicellulose layers of wine grape pomace. *Food Chemistry*, **2017**, 232, 340-350	8.5	15
25	The phenolic profile extracted from the desiccation-tolerant medicinal shrub Myrothamnus flabellifolia using Natural Deep Eutectic Solvents varies according to the solvation conditions. *Phytochemistry*, **2020**, 173, 112323	4	15
24	Inhibition of HIV-1 and M-MLV reverse transcriptases by a major polyphenol (3,4,5 tri-O-galloylquinic acid) present in the leaves of the South African resurrection plant, Myrothamnus flabellifolia. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2011**, 26, 843-53	5.6	13
23	Effect of Commercial Enzymes on Berry Cell Wall Deconstruction in the Context of Intravineyard Ripeness Variation under Winemaking Conditions. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3862-72	5.7	13
22	Metabolomics as a complement to phylogenetics for assessing intraspecific boundaries in the desiccation-tolerant medicinal shrub Myrothamnus flabellifolia (Myrothamnaceae). *Phytochemistry*, **2019**, 159, 127-136	4	13
21	Metabolomic Profiling of the Desiccation-Tolerant Medicinal Shrub Indicates Phenolic Variability Across Its Natural Habitat: Implications for Tea and Cosmetics Production. *Molecules*, **2019**, 24,	4.8	11
20	Weighted Gene Co-expression Network Analysis (WGCNA) Reveals the Hub Role of Protein Ubiquitination in the Acquisition of Desiccation Tolerance in Boea hygrometrica. *Plant and Cell Physiology*, **2019**, 60, 2707-2719	4.9	11
19	The Brassicaceae species Heliophila coronopifolia produces root border-like cells that protect the root tip and secrete defensin peptides. *Annals of Botany*, **2017**, 119, 803-813	4.1	11
18	A multivariate approach using attenuated total reflectance mid-infrared spectroscopy to measure the surface mannoproteins and □glucans of yeast cell walls during wine fermentations. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 10054-63	5.7	10
17	Structural characterization of arabinoxylans from two African plant species Eragrostis nindensis and Eragrostis tef using various mass spectrometric methods. *Rapid Communications in Mass Spectrometry*, **2014**, 28, 908-16	2.2	10
16	Endoplasmic Reticulum Body-Related Gene Expression in Different Root Zones of Arabidopsis Isolated by Laser-Assisted Microdissection. *Plant Genome*, **2016**, 9, plantgenome2015.08.0076	4.4	8
15	The impact of carbohydrate-active enzymes on mediating cell wall polysaccharide-tannin interactions in a wine-like matrix. *Food Research International*, **2020**, 129, 108889	7	7

14	A Systems-Based Molecular Biology Analysis of Resurrection Plants for Crop and Forage Improvement in Arid Environments **2012**, 399-418		6
13	Wine biotechnology in South Africa: towards a systems approach to wine science. *Biotechnology Journal*, **2008**, 3, 1355-67	5.6	4
12	Tracking polysaccharides during white winemaking using glycan microarrays reveals glycoprotein-rich sediments. *Food Research International*, **2019**, 123, 662-673	7	3
11	The Influence of Hydrolytic Enzymes on Tannin Adsorption-Desorption onto Grape Cell Walls in a Wine-Like Matrix. *Molecules*, **2021**, 26,	4.8	2
10	Root cap-derived cells and mucilage: a protective network at the root tip. *Protoplasma*, **2021**, 258, 1179-1185	3.4	2
9	Overexpression of VviPGIP1 and NtCAD14 in Tobacco Screened Using Glycan Microarrays Reveals Cell Wall Reorganisation in the Absence of Fungal Infection. *Vaccines*, **2020**, 8,	5.3	1
8	Tracking cell wall changes in wine and table grapes undergoing Botrytis cinerea infection using glycan microarrays. *Annals of Botany*, **2021**, 128, 527-543	4.1	1
7	Differences in berry skin and pulp cell wall polysaccharides from ripe and overripe Shiraz grapes evaluated using glycan profiling reveals extensin-rich flesh. *Food Chemistry*, **2021**, 363, 130180	8.5	1
6	An ultrastructural investigation of the surface microbiota present on the leaves and reproductive structures of the resurrection plant Myrothamnus flabellifolia. *South African Journal of Botany*, **2011**, 77, 485-491	2.9	0
5	Untangling the impact of red wine maceration times on wine ageing. A multidisciplinary approach focusing on extended maceration in Shiraz wines. *Food Research International*, **2021**, 150, 110697	7	0
4	The effect of enzyme treatment on polyphenol and cell wall polysaccharide extraction from the grape berry and subsequent sensory attributes in Cabernet Sauvignon wines.. *Food Chemistry*, **2022**, 385, 132645	8.5	0
3	Analysis of Plant Cell Walls Using High-Throughput Profiling Techniques with Multivariate Methods. *Methods in Molecular Biology*, **2020**, 2149, 327-337	1.4	
2	Tracking the Careers of Grape and Wine Polymers Using Biotechnology and Systems Biology **2010**, 389-406		
1	Commercial Yeast Strains Expressing Polygalacturonase and Glucanase Unravel the Cell Walls of Chardonnay Grape Pomace. *Biology*, **2022**, 11, 664	4.9	