

# Francesco Petruzzellis

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

838  
citations

430874

18  
h-index

526287

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1073  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Possible Role of Non-Structural Carbohydrates in the Regulation of Tree Hydraulics. <i>International Journal of Molecular Sciences</i> , 2020, 21, 144.	4.1	76
2	Insights from <i>in vivo</i> micro-CT analysis: testing the hydraulic vulnerability segmentation in <i>Acer pseudoplatanus</i> and <i>Fagus sylvatica</i> seedlings. <i>New Phytologist</i> , 2019, 221, 1831-1842.	7.3	53
3	Make it simpler: Alien species decrease functional diversity of coastal plant communities. <i>Journal of Vegetation Science</i> , 2019, 30, 498-509.	2.2	52
4	Plant-environment interactions through a functional traits perspective: a review of Italian studies. <i>Plant Biosystems</i> , 2019, 153, 853-869.	1.6	48
5	Hydraulic recovery from xylem embolism in excised branches of twelve woody species: Relationships with parenchyma cells and non-structural carbohydrates. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 513-520.	5.8	48
6	The pitfalls of <i>in vivo</i> imaging techniques: evidence for cellular damage caused by synchrotron X-ray computed microtomography. <i>New Phytologist</i> , 2018, 220, 104-110.	7.3	40
7	Non-structural carbohydrate and hydraulic dynamics during drought and recovery in <i>Fraxinus ornus</i> and <i>Ostrya carpinifolia</i> saplings. <i>Plant Physiology and Biochemistry</i> , 2019, 145, 1-9.	5.8	38
8	Vulnerability to xylem embolism correlates to wood parenchyma fraction in angiosperms but not in gymnosperms. <i>Tree Physiology</i> , 2019, 39, 1675-1684.	3.1	38
9	Less safety for more efficiency: water relations and hydraulics of the invasive tree <i>Ailanthus altissima</i> (Mill.) Swingle compared with native <i>Fraxinus ornus</i> L.. <i>Tree Physiology</i> , 2019, 39, 76-87.	3.1	36
10	Correlation of Field-Measured and Remotely Sensed Plant Water Status as a Tool to Monitor the Risk of Drought-Induced Forest Decline. <i>Forests</i> , 2020, 11, 77.	2.1	36
11	Shade-induced reduction of stem nonstructural carbohydrates increases xylem vulnerability to embolism and impedes hydraulic recovery in <i>Populus nigra</i> . <i>New Phytologist</i> , 2021, 231, 108-121.	7.3	34
12	Drought-induced embolism in stems of sunflower: A comparison of <i>in vivo</i> micro-CT observations and destructive hydraulic measurements. <i>Plant Physiology and Biochemistry</i> , 2017, 120, 24-29.	5.8	33
13	Chemical inhibition of xylem cellular activity impedes the removal of drought-induced embolisms in poplar stems – new insights from micro-CT analysis. <i>New Phytologist</i> , 2021, 229, 820-830.	7.3	30
14	Leaf hydraulic vulnerability protects stem functionality under drought stress in <i>Salvia officinalis</i> . <i>Functional Plant Biology</i> , 2016, 43, 370.	2.1	29
15	Water ‘on the rocks’: a summer drink for thirsty trees?. <i>New Phytologist</i> , 2021, 229, 199-212.	7.3	29
16	Relation between water status and desiccation-affected genes in the lichen photobiont <i>Trebouxia gelatinosa</i> . <i>Plant Physiology and Biochemistry</i> , 2018, 129, 189-197.	5.8	28
17	Sampling intraspecific variability in leaf functional traits: Practical suggestions to maximize collected information. <i>Ecology and Evolution</i> , 2017, 7, 11236-11245.	1.9	25
18	Vineyard water relations in a karstic area: deep roots and irrigation management. <i>Agriculture, Ecosystems and Environment</i> , 2018, 263, 53-59.	5.3	22

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19	A simplified framework for fast and reliable measurement of leaf turgor loss point. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 395-399.	5.8	22
20	Functional differentiation of invasive and native plants along a leaf efficiency/safety trade-off. <i>Environmental and Experimental Botany</i> , 2021, 188, 104518.	4.2	14
21	The extraâ€vascular water pathway regulates dynamic leaf hydraulic decline and recovery in <i>Populus nigra</i> . <i>Physiologia Plantarum</i> , 2021, 172, 29-40.	5.2	13
22	Too dry to survive: Leaf hydraulic failure in two <i>Salvia</i> species can be predicted on the basis of water content. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 215-224.	5.8	13
23	Grapevine water relations and rooting depth in karstic soils. <i>Science of the Total Environment</i> , 2019, 692, 669-675.	8.0	12
24	Functional Divergence Drives Invasibility of Plant Communities at the Edges of a Resource Availability Gradient. <i>Diversity</i> , 2020, 12, 148.	1.7	12
25	Relationships between water status and photosystem functionality in a chlorolichen and its isolated photobiont. <i>Planta</i> , 2018, 247, 705-714.	3.2	10
26	Plasticity of functional traits of tree of heaven is higher in exotic than in native habitats. <i>Trees - Structure and Function</i> , 2019, 33, 411-420.	1.9	9
27	Use of Sentinel-2 Satellite Data for Windthrows Monitoring and Delimiting: The Case of â€Storm in Friuli Venezia Giulia Region (North-Eastern Italy). <i>Remote Sensing</i> , 2021, 13, 1530.	4.0	9
28	Cross Taxon Congruence Between Lichens and Vascular Plants in a Riparian Ecosystem. <i>Diversity</i> , 2019, 11, 133.	1.7	6
29	Drivers of distanceâ€decay in bryophyte assemblages at multiple spatial scales: Dispersal limitations or environmental control?. <i>Journal of Vegetation Science</i> , 2020, 31, 293-306.	2.2	6
30	A Leaf Selfie: Using a Smartphone to Quantify Leaf Vulnerability to Hydraulic Dysfunction. <i>Plants</i> , 2020, 9, 234.	3.5	6
31	No Evidence for Light-Induced Embolism Repair in Cut Stems of Drought-Resistant Mediterranean Species under Soaking. <i>Plants</i> , 2022, 11, 307.	3.5	5
32	High spatial heterogeneity of water stress levels in RefoÅ¼k grapevines cultivated in Classical Karst. <i>Agricultural Water Management</i> , 2022, 260, 107288.	5.6	4
33	Green roof irrigation management based on substrate water potential assures water saving without affecting plant physiological performance. <i>Ecohydrology</i> , 0, , .	2.4	1
34	Climate Change Risk and Vulnerabilities Analysis in Trieste SECAP. <i>Sustainability</i> , 2022, 14, 5973.	3.2	1