

# Alberto Battistelli

## List of Publications by Year in descending order

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57  
papers

2,040  
citations

218381

26  
h-index

253896

43  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Signaling Pathways Mediating the Induction of Apple Fruitlet Abscission. <i>Plant Physiology</i> , 2011, 155, 185-208.	2.3	163
2	Nutrient solution concentration and growing season affect yield and quality of <i>Lactuca sativa</i> L. var. <i>acephala</i> in floating raft culture. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 1682-1689.	1.7	154
3	Fruit quality of mini-watermelon as affected by grafting and irrigation regimes. <i>Journal of the Science of Food and Agriculture</i> , 2008, 88, 1107-1114.	1.7	127
4	Phosphoenolpyruvate carboxykinase and its potential role in the catabolism of organic acids in the flesh of soft fruit during ripening. <i>Journal of Experimental Botany</i> , 2005, 56, 2959-2969.	2.4	92
5	The organic acids that are accumulated in the flesh of fruits: occurrence, metabolism and factors affecting their contents – a review. <i>Revista Chapingo, Serie Horticultura</i> , 2015, XXI, 97-128.	1.1	90
6	Comparison of the subirrigation and drip-irrigation systems for greenhouse zucchini squash production using saline and non-saline nutrient solutions. <i>Agricultural Water Management</i> , 2006, 82, 99-117.	2.4	81
7	Sucrose synthase dominates carbohydrate metabolism and relative growth rate in growing kiwifruit ( <i>Actinidia deliciosa</i> , cv Hayward). <i>Scientia Horticulturae</i> , 2011, 128, 197-205.	1.7	74
8	Influence of CPPU on carbohydrate accumulation and metabolism in fruits of <i>Actinidia deliciosa</i> (A.) Tj. <i>ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.7	70
9	Seasonal and inter-annual dynamics of growth, non-structural carbohydrates and C stable isotopes in a Mediterranean beech forest. <i>Tree Physiology</i> , 2013, 33, 730-742.	1.4	63
10	Is stored malate the quantitatively most important substrate utilised by respiration and ethanolic fermentation in grape berry pericarp during ripening?. <i>Plant Physiology and Biochemistry</i> , 2014, 76, 52-57.	2.8	59
11	Combining mutations at genes encoding key enzymes involved in starch synthesis affects the amylose content, carbohydrate allocation and hardness in the wheat grain. <i>Plant Biotechnology Journal</i> , 2018, 16, 1723-1734.	4.1	57
12	Effect of Drought Stress on Photosynthetic Characteristics, Growth and Sugar Accumulation of Field-Grown Sweet Sorghum. <i>Functional Plant Biology</i> , 1996, 23, 331.	1.1	53
13	Development and metabolism of the fruit and seed of the Japanese plum Ozark premier (Rosaceae). <i>Journal of Plant Physiology</i> , 2012, 169, 551-560.	1.6	48
14	Increase of ascorbic acid content and nutritional quality in spinach leaves during physiological acclimation to low temperature. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 717-723.	2.8	45
15	Phosphoenolpyruvate carboxykinase in cherry ( <i>Prunus avium</i> L.) fruit during development. <i>Journal of Experimental Botany</i> , 2011, 62, 5357-5365.	2.4	37
16	Anaerobic digestion of corn silage on a commercial scale: Differential utilization of its chemical constituents and characterization of the solid digestate. <i>Biomass and Bioenergy</i> , 2015, 83, 17-22.	2.9	37
17	Nutritional traits and antioxidant capacity of kiwifruit ( <i>Actinidia deliciosa</i> Planch., cv. Hayward) grown in Italy. <i>Journal of Food Composition and Analysis</i> , 2015, 37, 25-29.	1.9	37
18	Winter's bite: beech trees survive complete defoliation due to spring late-frost damage by mobilizing old C reserves. <i>New Phytologist</i> , 2019, 224, 625-631.	3.5	36

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19	Polyphenols, the new frontiers of prebiotics. <i>Advances in Food and Nutrition Research</i> , 2020, 94, 35-89.	1.5	35
20	Carbon and nitrogen allocation strategy in <i>Posidonia oceanica</i> is altered by seawater acidification. <i>Science of the Total Environment</i> , 2017, 607-608, 954-964.	3.9	33
21	Pre-anthesis CPPU low dosage application increases "Hayward"™ kiwifruit weight without affecting the other qualitative and nutritional characteristics. <i>Food Chemistry</i> , 2014, 158, 224-228.	4.2	32
22	The contribution of stored malate and citrate to the substrate requirements of metabolism of ripening peach ( <i>Prunus persica</i> L. Batsch) flesh is negligible. Implications for the occurrence of phosphoenolpyruvate carboxykinase and gluconeogenesis. <i>Plant Physiology and Biochemistry</i> , 2016, 101, 33-42.	2.8	31
23	Unravelling resilience mechanisms in forests: role of non-structural carbohydrates in responding to extreme weather events. <i>Tree Physiology</i> , 2021, 41, 1808-1818.	1.4	30
24	The relationship between the activation state of sucrose-phosphate synthase and the rate of CO <sub>2</sub> assimilation in spinach leaves. <i>Planta</i> , 1991, 183, 620-2.	1.6	28
25	Analysis of seed growth, fruit growth and composition and phosphoenolpyruvate carboxykinase (PEPCK) occurrence in apricot ( <i>Prunus armeniaca</i> L.). <i>Scientia Horticulturae</i> , 2015, 186, 38-46.	1.7	28
26	Yield affects qualitative kiwifruit characteristics and dry matter content may be an indicator of both quality and storability. <i>Scientia Horticulturae</i> , 2012, 146, 124-130.	1.7	27
27	Malate as substrate for catabolism and gluconeogenesis during ripening in the pericarp of different grape cultivars. <i>Biologia Plantarum</i> , 2016, 60, 155-162.	1.9	27
28	Phosphoenolpyruvate carboxykinase and gluconeogenesis in grape pericarp. <i>Plant Physiology and Biochemistry</i> , 2015, 97, 62-69.	2.8	25
29	Metabolism of the seed and endocarp of cherry ( <i>Prunus avium</i> L.) during development. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 923-930.	2.8	24
30	Continuous Lighting Promotes Plant Growth, Light Conversion Efficiency, and Nutritional Quality of <i>Eruca vesicaria</i> (L.) Cav. in Controlled Environment With Minor Effects Due to Light Quality. <i>Frontiers in Plant Science</i> , 2021, 12, 730119.	1.7	24
31	Late summer photosynthesis and storage carbohydrates in walnut ( <i>Juglans regia</i> L.): Feed-back and feed-forward effects. <i>Plant Physiology and Biochemistry</i> , 2017, 118, 618-626.	2.8	23
32	Effects on photosynthesis, carbohydrate accumulation and regrowth induced by temperature increase in maize genotypes with different sensitivity to low temperature. <i>Functional Plant Biology</i> , 1999, 26, 367.	1.1	22
33	Combining stable isotope and carbohydrate analyses in phloem sap and fine roots to study seasonal changes of source-sink relationships in a Mediterranean beech forest. <i>Tree Physiology</i> , 2015, 35, 829-839.	1.4	22
34	Sucrose Metabolism and Transport in Grapevines, with Emphasis on Berries and Leaves, and Insights Gained from a Cross-Species Comparison. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7794.	1.8	21
35	Control of C <sub>4</sub> photosynthesis: effects of reduced activities of phosphoenolpyruvate carboxylase on CO <sub>2</sub> assimilation in <i>Amaranthus edulis</i> L.. <i>Journal of Experimental Botany</i> , 2000, 51, 339-346.	2.4	19
36	Occurrence of a number of enzymes involved in either gluconeogenesis or other processes in the pericarp of three cultivars of grape ( <i>Vitis vinifera</i> L.) during development. <i>Plant Physiology and Biochemistry</i> , 2014, 84, 261-270.	2.8	19

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37	Phosphoenolpyruvate carboxykinase, pyruvate orthophosphate dikinase and isocitrate lyase in both tomato fruits and leaves, and in the flesh of peach and some other fruits. <i>Journal of Plant Physiology</i> , 2016, 202, 34-44.	1.6	19
38	Influence of Geographical Location of Orchards on Green Kiwifruit Bioactive Components. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 9172-9179.	2.4	19
39	Short-term natural $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ variations in pools and fluxes in a beech forest: the transfer of isotopic signal from recent photosynthates to soil respired $\text{CO}_2$ . <i>Biogeosciences</i> , 2011, 8, 2833-2846.	1.3	18
40	Peach leaf curl disease shifts sugar metabolism in severely infected leaves from source to sink. <i>Plant Physiology and Biochemistry</i> , 2017, 112, 9-18.	2.8	18
41	Non-structural Carbohydrate Metabolism in the Flesh of Stone Fruits of the Genus <i>Prunus</i> (Rosaceae) – A Review. <i>Frontiers in Plant Science</i> , 2020, 11, 549921.	1.7	18
42	MYCELIAL GROWTH AND ENZYMATIC ACTIVITIES OF WHITE-ROT FUNGI ON ANAEROBIC DIGESTATES FROM INDUSTRIAL BIOGAS PLANTS. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 1713-1719.	0.2	18
43	Chemical composition and yield of rhizome biomass of <i>Arundo donax</i> L. grown for biorefinery in the Mediterranean environment. <i>Biomass and Bioenergy</i> , 2017, 107, 191-197.	2.9	17
44	Influence of the interaction between light intensity and $\text{CO}_2$ concentration on productivity and quality of spinach ( <i>Spinacia oleracea</i> L.) grown in fully controlled environment. <i>Advances in Space Research</i> , 2013, 52, 1193-1200.	1.2	16
45	Changes in Absolute Contents of Compounds Affecting the Taste and Nutritional Properties of the Flesh of Three Plum Species Throughout Development. <i>Foods</i> , 2019, 8, 486.	1.9	16
46	Quality and Nutritional Compounds of <i>Prunus Cerasus</i> L. Var. <i>Austera</i> Fruit Grown in Central Italy. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2019, 54, 1005-1012.	0.5	16
47	Gluconeogenesis and nitrogen metabolism in maize. <i>Plant Physiology and Biochemistry</i> , 2018, 130, 324-333.	2.8	15
48	The down-regulation of the genes encoding Isoamylase 1 alters the starch composition of the durum wheat grain. <i>Plant Science</i> , 2016, 252, 230-238.	1.7	14
49	Rocket seedling production on the international space station: Growth and nutritional properties. <i>Microgravity Science and Technology</i> , 2007, 19, 118-121.	0.7	10
50	Carbon allocation strategies and water uptake in young grafted and own-rooted hazelnut ( <i>Corylus avellana</i> L.) cultivars. <i>Tree Physiology</i> , 2022, 42, 939-957.	1.4	10
51	The occurrence of phosphoenolpyruvate carboxykinase (PEPCK) in the pericarp of different grapevine genotypes and in grape leaves and developing seeds. <i>Journal of Horticultural Science and Biotechnology</i> , 2018, 93, 456-465.	0.9	9
52	Effects of short-term ozone fumigation on carbohydrates in darkened tobacco leaves. <i>Plant Physiology and Biochemistry</i> , 2001, 39, 539-543.	2.8	7
53	Nutritive Parameters and Antioxidant Quality of Minimally Processed "Cime di Rapa" (&#x26;#x2013;Brassica) Tj ETQq1 1 0.784314 rgBT /Over Polish Journal of Food and Nutrition Sciences, 0, , 337-346.	0.6	5
54	Genetic Variability of <i>Alnus cordata</i> (Loisel.) Duby Populations and Introgressive Hybridization with <i>A. glutinosa</i> (L.) Gaertn. in Southern Italy: Implication for Conservation and Management of Genetic Resources. <i>Forests</i> , 2021, 12, 655.	0.9	2

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55	Regulation of starch synthesis in kiwifruit: The effect of CPPU. Giornale Botanico Italiano (Florence,) Tj ETQq1 1 0.784314 rgBT /Overl	0.0	0
56	Short and long term regulation of phosphoenol-pyruvate carboxylase in spinach. Giornale Botanico Italiano (Florence, Italy: 1962), 1995, 129, 951-952.	0.0	0
57	The Effect of Water Stress on Photosynthetic Characteristics, Growth and Sugar Accumulation of Field Grown Sweet Sorghum. Giornale Botanico Italiano (Florence, Italy: 1962), 1995, 129, 1114-1115.	0.0	0