Petronia Carillo

List of Publications by Year in Descending Order

90 papers	3,830 citations	30 h-index	61 g-index
96 ext. papers	4,838 ext. citations	4.5 avg, IF	5.6 L-index

#	Paper	IF	Citations
90	Cold Treatment Modulates Changes in Primary Metabolites and Flowering of Cut Flower Tulip Hybrids. *Horticulturae*, **2022**, 8, 371	2.5	
89	Cytoprotective and Antigenotoxic Properties of Organic vs. Conventional Tomato Puree: Evidence in Zebrafish Model. *Fishes*, **2022**, 7, 103	2.5	
88	Melatonin alleviates the adverse effects of water stress in adult olive cultivars (Olea europea cv. Sevillana & Roughani) in field condition. *Agricultural Water Management*, **2022**, 269, 107681	5.9	0
87	In Vitro Assessment of Bio-Functional Properties from Lactiplantibacillus plantarum Strains. *Current Issues in Molecular Biology*, **2022**, 44, 2321-2334	2.9	0
86	Plant-Derived Biostimulants Differentially Modulate Primary and Secondary Metabolites and Improve the Yield Potential of Red and Green Lettuce Cultivars. *Agronomy*, **2022**, 12, 1361	3.6	1
85	Remodeling of Carbon and Nitrogen Metabolites in Durum Wheat: A Simple Response to Complex Stimuli. *Biology and Life Sciences Forum*, **2021**, 4, 76		
84	Biostimulation as a Means for Optimizing Fruit Phytochemical Content and Functional Quality of Tomato Landraces of the San Marzano Area. *Foods*, **2021**, 10,	4.9	6
83	Food Loss and Waste Prevention Strategies from Farm to Fork. *Sustainability*, **2021**, 13, 5443	3.6	13
82	Based Extracts Counteract Salinity Stress in Tomato by Remodeling Leaf Nitrogen Metabolism. *Plants*, **2021**, 10,	4.5	7
81	Regulated Salinity Eustress in a Floating Hydroponic Module of Sequentially Harvested Lettuce Modulates Phytochemical Constitution, Plant Resilience, and Post-Harvest Nutraceutical Quality. *Agronomy*, **2021**, 11, 1040	3.6	4
80	Effects of vegetal- versus animal-derived protein hydrolysate on sweet basil morpho-physiological and metabolic traits. *Scientia Horticulturae*, **2021**, 284, 110123	4.1	14
79	An HPLC-automated Derivatization for Glutathione and Related Thiols Analysis in Brassica rapa L.. *Agronomy*, **2021**, 11, 1157	3.6	1
78	Nutrient Solution Deprivation as a Tool to Improve Hydroponics Sustainability: Yield, Physiological, and Qualitative Response of Lettuce. *Agronomy*, **2021**, 11, 1469	3.6	7
77	Salinity Duration Differently Modulates Physiological Parameters and Metabolites Profile in Roots of Two Contrasting Barley Genotypes. *Plants*, **2021**, 10,	4.5	12
76	Anthocyanins are Key Regulators of Drought Stress Tolerance in Tobacco. *Biology*, **2021**, 10,	4.9	20
75	Protein Hydrolysate Combined with Hydroponics Divergently Modifies Growth and Shuffles Pigments and Free Amino Acids of Carrot and Dill Microgreens. *Horticulturae*, **2021**, 7, 279	2.5	1
74	Light spectral composition affects metabolic response and flowering in non-vernalized Ranunculus asiaticus L.. *Environmental and Experimental Botany*, **2021**, 192, 104649	5.9	2

73	The role of light quality of photoperiodic lighting on photosynthesis, flowering and metabolic profiling in Ranunculus asiaticus L. *Physiologia Plantarum*, **2020**, 170, 187-201	4.6	10
72	Challenges for a Sustainable Food Production System on Board of the International Space Station: A Technical Review. *Agronomy*, **2020**, 10, 687	3.6	12
71	Application of , 6-pentyl-Ɑpyrone and Plant Biopolymer Formulations Modulate Plant Metabolism and Fruit Quality of Plum Tomatoes. *Plants*, **2020**, 9,	4.5	23
70	Biostimulatory Action of Arbuscular Mycorrhizal Fungi Enhances Productivity, Functional and Sensory Quality in Ƥiennolo del Vesuvio□Cherry Tomato Landraces. *Agronomy*, **2020**, 10, 911	3.6	11
69	Appraisal of Combined Applications of Trichoderma virens and a Biopolymer-Based Biostimulant on Lettuce Agronomical, Physiological, and Qualitative Properties under Variable N Regimes. *Agronomy*, **2020**, 10, 196	3.6	35
68	Metabolic Profile and Performance Responses of L. Hybrids as Affected by Light Quality of Photoperiodic Lighting. *Frontiers in Plant Science*, **2020**, 11, 597823	6.2	4
67	Physiological and Nutraceutical Quality of Green and Red Pigmented Lettuce in Response to NaCl Concentration in Two Successive Harvests. *Agronomy*, **2020**, 10, 1358	3.6	16
66	Enhancing Sustainability by Improving Plant Salt Tolerance through Macro- and Micro-Algal Biostimulants. *Biology*, **2020**, 9,	4.9	27
65	Morphological and Physiological Responses Induced by Protein Hydrolysate-Based Biostimulant and Nitrogen Rates in Greenhouse Spinach. *Agronomy*, **2019**, 9, 450	3.6	41
64	Morpho-physiological and homeostatic adaptive responses triggered by omeprazole enhance lettuce tolerance to salt stress. *Scientia Horticulturae*, **2019**, 249, 22-30	4.1	14
63	Biostimulant Application with a Tropical Plant Extract Enhances Corchorus olitorius Adaptation to Sub-Optimal Nutrient Regimens by Improving Physiological Parameters. *Agronomy*, **2019**, 9, 249	3.6	33
62	Photosynthesis in L.: The Influence of the Hybrid and the Preparation Procedure of Tuberous Roots. *Frontiers in Plant Science*, **2019**, 10, 241	6.2	10
61	Biochemical, Physiological and Anatomical Mechanisms of Adaptation of and to NaCl and CaCl Salinization. *Frontiers in Plant Science*, **2019**, 10, 742	6.2	17
60	Sensory and functional quality characterization of protected designation of origin 'Piennolo del Vesuvio' cherry tomato landraces from Campania-Italy. *Food Chemistry*, **2019**, 292, 166-175	8.5	28
59	Spatial and Temporal Profile of Glycine Betaine Accumulation in Plants Under Abiotic Stresses. *Frontiers in Plant Science*, **2019**, 10, 230	6.2	114
58	Omeprazole Promotes Chloride Exclusion and Induces Salt Tolerance in Greenhouse Basil. *Agronomy*, **2019**, 9, 355	3.6	11
57	Cultivar-Specific Performance and Qualitative Descriptors for Butterhead Salanova Lettuce Produced in Closed Soilless Cultivation as a Candidate Salad Crop for Human Life Support in Space. *Life*, **2019**, 9,	3	19
56	Omeprazole Treatment Enhances Nitrogen Use Efficiency Through Increased Nitrogen Uptake and Assimilation in Corn. *Frontiers in Plant Science*, **2019**, 10, 1507	6.2	12

55	Morpho-anatomical, physiological and biochemical adaptive responses to saline water of Bougainvillea spectabilis Willd. trained to different canopy shapes. *Agricultural Water Management*, **2019**, 212, 12-22	5.9	49
54	Chemical Eustress Elicits Tailored Responses and Enhances the Functional Quality of Novel Food. *Molecules*, **2019**, 24,	4.8	30
53	Ascophyllum nodosum-based algal extracts act as enhancers of growth, fruit quality, and adaptation to stress in salinized tomato plants. *Journal of Applied Phycology*, **2018**, 30, 2675-2686	3.2	47
52	GABA Shunt in Durum Wheat. *Frontiers in Plant Science*, **2018**, 9, 100	6.2	106
51	Physiological and Metabolic Responses Triggered by Omeprazole Improve Tomato Plant Tolerance to NaCl Stress. *Frontiers in Plant Science*, **2018**, 9, 249	6.2	47
50	Response of Arabidopsis primary metabolism and circadian clock to low night temperature in a natural light environment. *Journal of Experimental Botany*, **2018**, 69, 4881-4895	7	38
49	Hordeum vulgare and Hordeum maritimum respond to extended salinity stress displaying different temporal accumulation pattern of metabolites. *Functional Plant Biology*, **2018**, 45, 1096-1109	2.7	56
48	Effect of Thermal Stress on Tissue Ultrastructure and Metabolite Profiles During Initiation of Radiata Pine Somatic Embryogenesis. *Frontiers in Plant Science*, **2018**, 9, 2004	6.2	19
47	Metabolic characterization and antioxidant activity in sweet cherry (Prunus avium L.) Campania accessions: Metabolic characterization of sweet cherry accessions. *Food Chemistry*, **2018**, 240, 559-566	8.5	17
46	Unveiling the Enigmatic Structure of TdCMO Transcripts in Durum Wheat. *Agronomy*, **2018**, 8, 270	3.6	3
45	Metabolomics for Crop Improvement Against Salinity Stress **2018**, 267-287		11
44	Dataset on antioxidant metabolites and enzymes activities of freshly harvested sweet cherries (L.) of Campania accessions. *Data in Brief*, **2017**, 15, 522-527	1.2	2
43	Getting back to nature: a reality check for experiments in controlled environments. *Journal of Experimental Botany*, **2017**, 68, 4463-4477	7	53
42	Durum wheat seedling responses to simultaneous high light and salinity involve a fine reconfiguration of amino acids and carbohydrate metabolism. *Physiologia Plantarum*, **2017**, 159, 290-312	4.6	113
41	A Benzimidazole Proton Pump Inhibitor Increases Growth and Tolerance to Salt Stress in Tomato. *Frontiers in Plant Science*, **2017**, 8, 1220	6.2	18
40	Durum Wheat Roots Adapt to Salinity Remodeling the Cellular Content of Nitrogen Metabolites and Sucrose. *Frontiers in Plant Science*, **2016**, 7, 2035	6.2	85
39	An apolar Pistacia lentiscus L. leaf extract: GC-MS metabolic profiling and evaluation of cytotoxicity and apoptosis inducing effects on SH-SY5Y and SK-N-BE(2)C cell lines. *Food and Chemical Toxicology* , **2016**, 95, 64-74	4.7	24
38	Determination of the genetic relatedness of fig (Ficus carica L.) accessions using RAPD fingerprint and their agro-morphological characterization. *South African Journal of Botany*, **2015**, 97, 40-47	2.9	33

37	Transcription Factors and Environmental Stresses in Plants **2014**, 57-78		3
36	The sucrose-trehalose 6-phosphate (Tre6P) nexus: specificity and mechanisms of sucrose signalling by Tre6P. *Journal of Experimental Botany*, **2014**, 65, 1051-68	7	217
35	A fluorometric assay for trehalose in the picomole range. *Plant Methods*, **2013**, 9, 21	5.8	42
34	R gene expression changes related to Cercospora hydrangeae L. *Molecular Biology Reports*, **2013**, 40, 4173-80	2.8	1
33	Use of Nuclear and Mitochondrial Single Nucleotide Polymorphisms to Characterize English Walnut (Juglans regia L.) Genotypes. *Plant Molecular Biology Reporter*, **2013**, 31, 1116-1130	1.7	9
32	Transcription Factors and Genes in Abiotic Stress **2012**, 317-357		7
31	An improved fluorimetric HPLC method for quantifying tocopherols in Brassica rapa L. subsp. sylvestris after harvest. *Journal of Food Composition and Analysis*, **2012**, 27, 145-150	4.1	17
30	DGGE analysis of buffalo manure eubacteria for hydrogen production: effect of pH, temperature and pretreatments. *Molecular Biology Reports*, **2012**, 39, 10193-200	2.8	11
29	cDNA cloning and differential expression patterns of ascorbate peroxidase during post-harvest in Brassica rapa L. *Molecular Biology Reports*, **2012**, 39, 7843-53	2.8	8
28	Organic vs. traditional potato powder. *Food Chemistry*, **2012**, 133, 1264-1273	8.5	36
27	Ty1-copia group retrotransposons and the evolution of retroelements in several angiosperm plants: evidence of horizontal transmission. *Bioinformation*, **2012**, 8, 267-71	1.1	5
26	Plant Genes for Abiotic Stress **2011**,		9
25	Salinity Stress and Salt Tolerance **2011**,		62
24	Ttd1a promoter is involved in DNA-protein binding by salt and light stresses. *Molecular Biology Reports*, **2011**, 38, 3787-94	2.8	33
23	Reactive oxygen species and transcript analysis upon excess light treatment in wild-type Arabidopsis thaliana vs a photosensitive mutant lacking zeaxanthin and lutein. *BMC Plant Biology*, **2011**, 11, 62	5.3	81
22	Salt-induced accumulation of glycine betaine is inhibited by high light in durum wheat. *Functional Plant Biology*, **2011**, 38, 139-150	2.7	44
21	Gas exchange and leaf metabolism of irrigated maize at different growth stages. *Plant Biosystems*, **2011**, 145, 485-494	1.6	19
20	Polymorphism of a new Ty1-copia retrotransposon in durum wheat under salt and light stresses. *Theoretical and Applied Genetics*, **2010**, 121, 311-22	6	25

19	Effects of the Allelochemicals Dihydrodiconiferyl Alcohol and Lariciresinol on Metabolism of Lactuca sativa. *The Open Bioactive Compounds Journal*, **2010**, 3, 18-24	1.3	8
18	Adjustment of growth and central metabolism to a mild but sustained nitrogen-limitation in Arabidopsis. *Plant, Cell and Environment*, **2009**, 32, 300-18	8.4	170
17	Process optimisation and physicochemical characterisation of potato powder. *International Journal of Food Science and Technology*, **2009**, 44, 145-151	3.8	11
16	Potato yield and metabolic profiling under conventional and organic farming. *European Journal of Agronomy*, **2008**, 28, 343-350	5	59
15	Nitrogen metabolism in durum wheat under salinity: accumulation of proline and glycine betaine. *Functional Plant Biology*, **2008**, 35, 412-426	2.7	107
14	Mild reductions in mitochondrial citrate synthase activity result in a compromised nitrate assimilation and reduced leaf pigmentation but have no effect on photosynthetic performance or growth. *Plant Physiology*, **2008**, 147, 115-27	6.6	78
13	Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in Arabidopsis thaliana. *Biochemical Journal*, **2006**, 397, 139-48	3.8	426
12	Temperature dependence of nitrate reductase in the psychrophilic unicellular alga Koliella antarctica and the mesophilic alga Chlorella sorokiniana. *Plant, Cell and Environment*, **2006**, 29, 1400-9	8.4	33
11	Nitrate reductase in durum wheat seedlings as affected by nitrate nutrition and salinity. *Functional Plant Biology*, **2005**, 32, 209-219	2.7	76
10	A Robot-based platform to measure multiple enzyme activities in Arabidopsis using a set of cycling assays: comparison of changes of enzyme activities and transcript levels during diurnal cycles and in prolonged darkness. *Plant Cell*, **2004**, 16, 3304-25	11.6	420
9	Steps towards an integrated view of nitrogen metabolism. *Journal of Experimental Botany*, **2002**, 53, 959-70	7	457
8	Effects of sulfate-starvation and re-supply on growth, NH4+ uptake and starch metabolism in Chlorella sorokiniana. *Functional Plant Biology*, **2000**, 27, 335	2.7	10
7	Growth, photosynthesis, and respiration of Chlorella sorokiniana after N-starvation. Interactions between light, CO2 and NH4+ supply. *Physiologia Plantarum*, **1999**, 105, 288-293	4.6	13
6	The physiological significance of light and dark NH4+ metabolism in Chlorella sorokiniana. *Phytochemistry*, **1998**, 47, 177-181	4	13
5	Ammonium metabolism stimulation of glucose-6P dehydrogenase and phosphoenolpyruvate carboxylase in young barley roots. *Journal of Plant Physiology*, **1998**, 153, 61-66	3.6	20
4	Ammonium assimilation by young plants of Hordeum vulgare in light and darkness: effects on respiratory oxygen consumption by roots. *New Phytologist*, **1996**, 132, 375-82	9.8	20
3	Effect of the light on ammonium assimilation by roots of young barley plants. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1995**, 129, 943-944		
2	Effect of Ammonium on the Respiration of Roots in Young Barley Plants Grown under Nitrogen Deprivation. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1995**, 129, 983-984		

1 Metabolite changes after ammonium or methylammonium supply in roots of young barley plants.
Giornale Botanico Italiano (Florence, Italy: 1962), **1995**, 129, 947-948