

Petronia Carillo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8963467/publications.pdf>

Version: 2024-02-01

96
papers

5,566
citations

117453

34
h-index

85405

71
g-index

97
all docs

97
docs citations

97
times ranked

6022
citing authors

#	ARTICLE	IF	CITATIONS
1	Steps towards an integrated view of nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2002, 53, 959-970.	2.4	549
2	Sugar-induced increases in trehalose 6-phosphate are correlated with redox activation of ADPglucose pyrophosphorylase and higher rates of starch synthesis in <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2006, 397, 139-148.	1.7	518
3	A Robot-Based Platform to Measure Multiple Enzyme Activities in <i>Arabidopsis</i> Using a Set of Cycling Assays: Comparison of Changes of Enzyme Activities and Transcript Levels during Diurnal Cycles and in Prolonged Darkness[W]. <i>Plant Cell</i> , 2004, 16, 3304-3325.	3.1	489
4	The sucroseâ€“trehalose 6-phosphate (Tre6P) nexus: specificity and mechanisms of sucrose signalling by Tre6P. <i>Journal of Experimental Botany</i> , 2014, 65, 1051-1068.	2.4	326
5	Spatial and Temporal Profile of Glycine Betaine Accumulation in Plants Under Abiotic Stresses. <i>Frontiers in Plant Science</i> , 2019, 10, 230.	1.7	213
6	Adjustment of growth and central metabolism to a mild but sustained nitrogenâ€“limitation in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 300-318.	2.8	201
7	GABA Shunt in Durum Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 100.	1.7	166
8	Durum wheat seedling responses to simultaneous high light and salinity involve a fine reconfiguration of amino acids and carbohydrate metabolism. <i>Physiologia Plantarum</i> , 2017, 159, 290-312.	2.6	157
9	Durum Wheat Roots Adapt to Salinity Remodeling the Cellular Content of Nitrogen Metabolites and Sucrose. <i>Frontiers in Plant Science</i> , 2016, 7, 2035.	1.7	152
10	Nitrogen metabolism in durum wheat under salinity: accumulation of proline and glycine betaine. <i>Functional Plant Biology</i> , 2008, 35, 412.	1.1	146
11	Nitrate reductase in durum wheat seedlings as affected by nitrate nutrition and salinity. <i>Functional Plant Biology</i> , 2005, 32, 209.	1.1	101
12	Salinity Stress and Salt Tolerance. , 0, , .		96
13	Morphological and Physiological Responses Induced by Protein Hydrolysate-Based Biostimulant and Nitrogen Rates in Greenhouse Spinach. <i>Agronomy</i> , 2019, 9, 450.	1.3	93
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 Â. <i>Plant Physiology</i> , 2008, 147, 115-127.	2.3	89
15	Getting back to nature: a reality check for experiments in controlled environments. <i>Journal of Experimental Botany</i> , 2017, 68, 4463-4477.	2.4	89
16	Reactive oxygen species and transcript analysis upon excess light treatment in wild-type <i>Arabidopsis thaliana</i> vs a photosensitive mutant lacking zeaxanthin and lutein. <i>BMC Plant Biology</i> , 2011, 11, 62.	1.6	88
17	<i>Ascophyllum nodosum</i> -based algal extracts act as enhancers of growth, fruit quality, and adaptation to stress in salinized tomato plants. <i>Journal of Applied Phycology</i> , 2018, 30, 2675-2686.	1.5	82
18	<i>Hordeum vulgare</i> and <i>Hordeum maritimum</i> respond to extended salinity stress displaying different temporal accumulation pattern of metabolites. <i>Functional Plant Biology</i> , 2018, 45, 1096.	1.1	82

#	ARTICLE	IF	CITATIONS
19	Potato yield and metabolic profiling under conventional and organic farming. <i>European Journal of Agronomy</i> , 2008, 28, 343-350.	1.9	79
20	Morpho-anatomical, physiological and biochemical adaptive responses to saline water of <i>Bougainvillea spectabilis</i> Willd. trained to different canopy shapes. <i>Agricultural Water Management</i> , 2019, 212, 12-22.	2.4	78
21	Response of <i>Arabidopsis</i> primary metabolism and circadian clock to low night temperature in a natural light environment. <i>Journal of Experimental Botany</i> , 2018, 69, 4881-4895.	2.4	73
22	Bio-stimulant Application with a Tropical Plant Extract Enhances <i>Corchorus olitorius</i> Adaptation to Sub-Optimal Nutrient Regimens by Improving Physiological Parameters. <i>Agronomy</i> , 2019, 9, 249.	1.3	70
23	Physiological and Metabolic Responses Triggered by Omeprazole Improve Tomato Plant Tolerance to NaCl Stress. <i>Frontiers in Plant Science</i> , 2018, 9, 249.	1.7	67
24	Enhancing Sustainability by Improving Plant Salt Tolerance through Macro- and Micro-Algal Bio-stimulants. <i>Biology</i> , 2020, 9, 253.	1.3	66
25	Food Loss and Waste Prevention Strategies from Farm to Fork. <i>Sustainability</i> , 2021, 13, 5443.	1.6	61
26	A fluorometric assay for trehalose in the picomole range. <i>Plant Methods</i> , 2013, 9, 21.	1.9	59
27	Anthocyanins Are Key Regulators of Drought Stress Tolerance in Tobacco. <i>Biology</i> , 2021, 10, 139.	1.3	59
28	Appraisal of Combined Applications of <i>Trichoderma virens</i> and a Biopolymer-Based Bio-stimulant on Lettuce Agronomical, Physiological, and Qualitative Properties under Variable N Regimes. <i>Agronomy</i> , 2020, 10, 196.	1.3	56
29	Salt-induced accumulation of glycine betaine is inhibited by high light in durum wheat. <i>Functional Plant Biology</i> , 2011, 38, 139.	1.1	48
30	Sensory and functional quality characterization of protected designation of origin "Piemnolo del Vesuvio"™ cherry tomato landraces from Campania-Italy. <i>Food Chemistry</i> , 2019, 292, 166-175.	4.2	48
31	Organic vs. traditional potato powder. <i>Food Chemistry</i> , 2012, 133, 1264-1273.	4.2	46
32	Determination of the genetic relatedness of fig (<i>Ficus carica</i> L.) accessions using RAPD fingerprint and their agro-morphological characterization. <i>South African Journal of Botany</i> , 2015, 97, 40-47.	1.2	46
33	Application of <i>Trichoderma harzianum</i> , 6-Pentyl- δ^2 -pyrone and Plant Biopolymer Formulations Modulate Plant Metabolism and Fruit Quality of Plum Tomatoes. <i>Plants</i> , 2020, 9, 771.	1.6	46
34	Effects of vegetal- versus animal-derived protein hydrolysate on sweet basil morpho-physiological and metabolic traits. <i>Scientia Horticulturae</i> , 2021, 284, 110123.	1.7	42
35	Chemical Eustress Elicits Tailored Responses and Enhances the Functional Quality of Novel Food <i>Perilla frutescens</i> . <i>Molecules</i> , 2019, 24, 185.	1.7	37
36	Temperature dependence of nitrate reductase in the psychrophilic unicellular alga <i>Koliella antarctica</i> and the mesophilic alga <i>Chlorella sorokiniana</i> . <i>Plant, Cell and Environment</i> , 2006, 29, 1400-1409.	2.8	36

#	ARTICLE	IF	CITATIONS
37	Ttd1a promoter is involved in DNA-protein binding by salt and light stresses. <i>Molecular Biology Reports</i> , 2011, 38, 3787-3794.	1.0	36
38	A Benzimidazole Proton Pump Inhibitor Increases Growth and Tolerance to Salt Stress in Tomato. <i>Frontiers in Plant Science</i> , 2017, 8, 1220.	1.7	35
39	Salinity Duration Differently Modulates Physiological Parameters and Metabolites Profile in Roots of Two Contrasting Barley Genotypes. <i>Plants</i> , 2021, 10, 307.	1.6	35
40	Polymorphism of a new Ty1-copia retrotransposon in durum wheat under salt and light stresses. <i>Theoretical and Applied Genetics</i> , 2010, 121, 311-322.	1.8	34
41	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. <i>Life</i> , 2019, 9, 61.	1.1	34
42	Effect of Thermal Stress on Tissue Ultrastructure and Metabolite Profiles During Initiation of Radiata Pine Somatic Embryogenesis. <i>Frontiers in Plant Science</i> , 2018, 9, 2004.	1.7	34
43	Challenges for a Sustainable Food Production System on Board of the International Space Station: A Technical Review. <i>Agronomy</i> , 2020, 10, 687.	1.3	32
44	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. <i>Food and Chemical Toxicology</i> , 2016, 95, 64-74.	1.8	31
45	Physiological and Nutraceutical Quality of Green and Red Pigmented Lettuce in Response to NaCl Concentration in Two Successive Harvests. <i>Agronomy</i> , 2020, 10, 1358.	1.3	31
46	Biochemical, Physiological and Anatomical Mechanisms of Adaptation of Callistemon citrinus and Viburnum lucidum to NaCl and CaCl ₂ Salinization. <i>Frontiers in Plant Science</i> , 2019, 10, 742.	1.7	28
47	Omeprazole Treatment Enhances Nitrogen Use Efficiency Through Increased Nitrogen Uptake and Assimilation in Corn. <i>Frontiers in Plant Science</i> , 2019, 10, 1507.	1.7	26
48	Biostimulatory Action of Arbuscular Mycorrhizal Fungi Enhances Productivity, Functional and Sensory Quality in "Piennolo del Vesuvio"™ Cherry Tomato Landraces. <i>Agronomy</i> , 2020, 10, 911.	1.3	26
49	Ammonium assimilation by young plants of Hordeum vulgare in light and darkness: effects on respiratory oxygen consumption by roots. <i>New Phytologist</i> , 1996, 132, 375-382.	3.5	25
50	Metabolic characterization and antioxidant activity in sweet cherry (Prunus avium L.) Campania accessions. <i>Food Chemistry</i> , 2018, 240, 559-566.	4.2	25
51	Metabolic profiles in C ₃ , C ₃ -C ₄ intermediate, C ₄ -like, and C ₄ species in the genus <i>Flaveria</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 1581-1601.	2.4	25
52	Ammonium metabolism stimulation of glucose-6P dehydrogenase and phosphoenolpyruvate carboxylase in young barley roots. <i>Journal of Plant Physiology</i> , 1998, 153, 61-66.	1.6	23
53	Gas exchange and leaf metabolism of irrigated maize at different growth stages. <i>Plant Biosystems</i> , 2011, 145, 485-494.	0.8	23
54	Morpho-physiological and homeostatic adaptive responses triggered by omeprazole enhance lettuce tolerance to salt stress. <i>Scientia Horticulturae</i> , 2019, 249, 22-30.	1.7	23

#	ARTICLE	IF	CITATIONS
55	Melatonin alleviates the adverse effects of water stress in adult olive cultivars (<i>Olea europea</i> cv.) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	20
56	An improved fluorimetric HPLC method for quantifying tocopherols in <i>Brassica rapa</i> L. subsp. <i>sylvestris</i> after harvest. <i>Journal of Food Composition and Analysis</i> , 2012, 27, 145-150.	1.9	19
57	<i>Ascophyllum nodosum</i> Based Extracts Counteract Salinity Stress in Tomato by Remodeling Leaf Nitrogen Metabolism. <i>Plants</i> , 2021, 10, 1044.	1.6	19
58	Plant-Derived Biostimulants Differentially Modulate Primary and Secondary Metabolites and Improve the Yield Potential of Red and Green Lettuce Cultivars. <i>Agronomy</i> , 2022, 12, 1361.	1.3	18
59	Metabolomics for Crop Improvement Against Salinity Stress. , 2018, , 267-287.		16
60	The role of light quality of photoperiodic lighting on photosynthesis, flowering and metabolic profiling in <i>Ranunculus asiaticus</i> L.. <i>Physiologia Plantarum</i> , 2020, 170, 187-201.	2.6	16
61	Biostimulation as a Means for Optimizing Fruit Phytochemical Content and Functional Quality of Tomato Landraces of the San Marzano Area. <i>Foods</i> , 2021, 10, 926.	1.9	16
62	Nutrient Solution Deprivation as a Tool to Improve Hydroponics Sustainability: Yield, Physiological, and Qualitative Response of Lettuce. <i>Agronomy</i> , 2021, 11, 1469.	1.3	16
63	The physiological significance of light and dark NH ₄ ⁺ metabolism in <i>Chlorella sorokiniana</i> . <i>Phytochemistry</i> , 1998, 47, 177-181.	1.4	15
64	Regulated Salinity Eustress in a Floating Hydroponic Module of Sequentially Harvested Lettuce Modulates Phytochemical Constitution, Plant Resilience, and Post-Harvest Nutraceutical Quality. <i>Agronomy</i> , 2021, 11, 1040.	1.3	15
65	Growth, photosynthesis, and respiration of <i>Chlorella sorokiniana</i> after N-starvation. Interactions between light, CO ₂ and NH ₄ ⁺ supply. <i>Physiologia Plantarum</i> , 1999, 105, 288-293.	2.6	14
66	Omeprazole Promotes Chloride Exclusion and Induces Salt Tolerance in Greenhouse Basil. <i>Agronomy</i> , 2019, 9, 355.	1.3	14
67	Effects of sulfate-starvation and re-supply on growth, NH ₄ ⁺ uptake and starch metabolism in <i>Chlorella sorokiniana</i> . <i>Functional Plant Biology</i> , 2000, 27, 335.	1.1	13
68	Process optimisation and physicochemical characterisation of potato powder. <i>International Journal of Food Science and Technology</i> , 2009, 44, 145-151.	1.3	13
69	DGGE analysis of buffalo manure eubacteria for hydrogen production: effect of pH, temperature and pretreatments. <i>Molecular Biology Reports</i> , 2012, 39, 10193-10200.	1.0	13
70	Plant Genes for Abiotic Stress. , 0, , .		12
71	Photosynthesis in <i>Ranunculus asiaticus</i> L.: The Influence of the Hybrid and the Preparation Procedure of Tuberous Roots. <i>Frontiers in Plant Science</i> , 2019, 10, 241.	1.7	12
72	Protein Hydrolysate Combined with Hydroponics Divergently Modifies Growth and Shuffles Pigments and Free Amino Acids of Carrot and Dill Microgreens. <i>Horticulturae</i> , 2021, 7, 279.	1.2	12

#	ARTICLE	IF	CITATIONS
73	Use of Nuclear and Mitochondrial Single Nucleotide Polymorphisms to Characterize English Walnut (<i>Juglans regia</i> L.) Genotypes. <i>Plant Molecular Biology Reporter</i> , 2013, 31, 1116-1130.	1.0	11
74	Nitrate Uptake and Use Efficiency: Pros and Cons of Chloride Interference in the Vegetable Crops. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	11
75	Effects of the Allelochemicals Dihydrodiconiferyl Alcohol and Lariciresinol on Metabolism of <i>Lactuca sativa</i> . <i>The Open Bioactive Compounds Journal</i> , 2010, 3, 18-24.	0.8	9
76	cDNA cloning and differential expression patterns of ascorbate peroxidase during post-harvest in <i>Brassica rapa</i> L.. <i>Molecular Biology Reports</i> , 2012, 39, 7843-7853.	1.0	8
77	Metabolic Profile and Performance Responses of <i>Ranunculus asiaticus</i> L. Hybrids as Affected by Light Quality of Photoperiodic Lighting. <i>Frontiers in Plant Science</i> , 2020, 11, 597823.	1.7	8
78	In Vitro Assessment of Bio-Functional Properties from <i>Lactiplantibacillus plantarum</i> Strains. <i>Current Issues in Molecular Biology</i> , 2022, 44, 2321-2334.	1.0	8
79	Transcription Factors and Genes in Abiotic Stress. , 2012, , 317-357.		7
80	Morpho-Metric and Specialized Metabolites Modulation of Parsley Microgreens through Selective LED Wavebands. <i>Agronomy</i> , 2022, 12, 1502.	1.3	7
81	Microalgae cross-fertilization: short-term effects of <i>Galdieria phlegrea</i> extract on growth, photosynthesis and enzyme activity of <i>Chlorella sorokiniana</i> cells. <i>Journal of Applied Phycology</i> , 2022, 34, 1957-1966.	1.5	7
82	An HPLC-automated Derivatization for Glutathione and Related Thiols Analysis in <i>Brassica rapa</i> L.. <i>Agronomy</i> , 2021, 11, 1157.	1.3	6
83	Ty1-copia group retrotransposons and the evolution of retroelements in several angiosperm plants: evidence of horizontal transmission. <i>Bioinformatics</i> , 2012, 8, 267-271.	0.2	6
84	Dataset on antioxidant metabolites and enzymes activities of freshly harvested sweet cherries () Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 30	0.5	5
85	Transcription Factors and Environmental Stresses in Plants. , 2014, , 57-78.		4
86	Unveiling the Enigmatic Structure of TdCMO Transcripts in Durum Wheat. <i>Agronomy</i> , 2018, 8, 270.	1.3	4
87	Light spectral composition affects metabolic response and flowering in non-vernalized <i>Ranunculus asiaticus</i> L.. <i>Environmental and Experimental Botany</i> , 2021, 192, 104649.	2.0	3
88	Cold Treatment Modulates Changes in Primary Metabolites and Flowering of Cut Flower Tulip Hybrids. <i>Horticulturae</i> , 2022, 8, 371.	1.2	2
89	R gene expression changes related to <i>Cercospora hydrangeae</i> L.. <i>Molecular Biology Reports</i> , 2013, 40, 4173-4180.	1.0	1
90	Effect of the light on ammonium assimilation by roots of young barley plants. <i>Giornale Botanico Italiano</i> (Florence, Italy: 1962), 1995, 129, 943-944.	0.0	0

#	ARTICLE	IF	CITATIONS
91	Effect of Ammonium on the Respiration of Roots in Young Barley Plants Grown under Nitrogen Deprivation. <i>Giornale Botanico Italiano</i> (Florence, Italy: 1962), 1995, 129, 983-984.	0.0	0
92	Metabolite changes after ammonium or methylammonium supply in roots of young barley plants. <i>Giornale Botanico Italiano</i> (Florence, Italy: 1962), 1995, 129, 947-948.	0.0	0
93	Plant Molecular Responses to Salt Stress. , 0, , .		0
94	Remodeling of Carbon and Nitrogen Metabolites in Durum Wheat: A Simple Response to Complex Stimuli. <i>Biology and Life Sciences Forum</i> , 2020, 4, .	0.6	0
95	Durum wheat roots adapt to salinity remodelling the cellular content of nitrogen metabolites and sucrose. , 0, , .		0
96	Cytoprotective and Antigenotoxic Properties of Organic vs. Conventional Tomato Puree: Evidence in Zebrafish Model. <i>Fishes</i> , 2022, 7, 103.	0.7	0