

Petronia Carillo

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Steps towards an integrated view of nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2002 , 53, 959-70	7	457
89	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, 139-48	3.8	426
88	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. <i>Plant Cell</i> , 2004 , 16, 3304-25	11.6	420
87	The sucrose-trehalose 6-phosphate (Tre6P) nexus: specificity and mechanisms of sucrose signalling by Tre6P. <i>Journal of Experimental Botany</i> , 2014 , 65, 1051-68	7	217
86	Adjustment of growth and central metabolism to a mild but sustained nitrogen-limitation in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2009 , 32, 300-18	8.4	170
85	Spatial and Temporal Profile of Glycine Betaine Accumulation in Plants Under Abiotic Stresses. <i>Frontiers in Plant Science</i> , 2019 , 10, 230	6.2	114
84	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	4.6	113
83	Nitrogen metabolism in durum wheat under salinity: accumulation of proline and glycine betaine. <i>Functional Plant Biology</i> , 2008 , 35, 412-426	2.7	107
82	GABA Shunt in Durum Wheat. <i>Frontiers in Plant Science</i> , 2018 , 9, 100	6.2	106
81	Durum Wheat Roots Adapt to Salinity Remodeling the Cellular Content of Nitrogen Metabolites and Sucrose. <i>Frontiers in Plant Science</i> , 2016 , 7, 2035	6.2	85
80	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	5.3	81
79	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. <i>Plant Physiology</i> , 2008 , 147, 115-27	6.6	78
78	Nitrate reductase in durum wheat seedlings as affected by nitrate nutrition and salinity. <i>Functional Plant Biology</i> , 2005 , 32, 209-219	2.7	76
77	Salinity Stress and Salt Tolerance 2011 ,		62
76	Potato yield and metabolic profiling under conventional and organic farming. <i>European Journal of Agronomy</i> , 2008 , 28, 343-350	5	59
75	<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, 1096-1109	2.7	56
74	Getting back to nature: a reality check for experiments in controlled environments. <i>Journal of Experimental Botany</i> , 2017 , 68, 4463-4477	7	53

73	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	5.9	49
72	<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	3.2	47
71	Physiological and Metabolic Responses Triggered by Omeprazole Improve Tomato Plant Tolerance to NaCl Stress. <i>Frontiers in Plant Science</i> , 2018 , 9, 249	6.2	47
70	Salt-induced accumulation of glycine betaine is inhibited by high light in durum wheat. <i>Functional Plant Biology</i> , 2011 , 38, 139-150	2.7	44
69	A fluorometric assay for trehalose in the picomole range. <i>Plant Methods</i> , 2013 , 9, 21	5.8	42
68	Morphological and Physiological Responses Induced by Protein Hydrolysate-Based Biostimulant and Nitrogen Rates in Greenhouse Spinach. <i>Agronomy</i> , 2019 , 9, 450	3.6	41
67	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	7	38
66	Organic vs. traditional potato powder. <i>Food Chemistry</i> , 2012 , 133, 1264-1273	8.5	36
65	Appraisal of Combined Applications of <i>Trichoderma virens</i> and a Biopolymer-Based Biostimulant on Lettuce Agronomical, Physiological, and Qualitative Properties under Variable N Regimes. <i>Agronomy</i> , 2020 , 10, 196	3.6	35
64	Biostimulant 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	3.6	33
63	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	2.9	33
62	Ttd1a promoter is involved in DNA-protein binding by salt and light stresses. <i>Molecular Biology Reports</i> , 2011 , 38, 3787-94	2.8	33
61	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, 1400-9	8.4	33
60	Chemical Eustress Elicits Tailored Responses and Enhances the Functional Quality of Novel Food. <i>Molecules</i> , 2019 , 24,	4.8	30
59	Sensory and functional quality characterization of protected designation of origin 'Piennolo del Vesuvio' cherry tomato landraces from Campania-Italy. <i>Food Chemistry</i> , 2019 , 292, 166-175	8.5	28
58	Enhancing Sustainability by Improving Plant Salt Tolerance through Macro- and Micro-Algal Biostimulants. <i>Biology</i> , 2020 , 9,	4.9	27
57	Polymorphism of a new Ty1-copia retrotransposon in durum wheat under salt and light stresses. <i>Theoretical and Applied Genetics</i> , 2010 , 121, 311-22	6	25
56	An apolar <i>Pistacia lentiscus</i> 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	4.7	24

55	Application of , 6-pentyl-Epyrone and Plant Biopolymer Formulations Modulate Plant Metabolism and Fruit Quality of Plum Tomatoes. <i>Plants</i> , 2020 , 9,	4.5	23
54	Ammonium metabolism stimulation of glucose-6P dehydrogenase and phosphoenolpyruvate carboxylase in young barley roots. <i>Journal of Plant Physiology</i> , 1998 , 153, 61-66	3.6	20
53	Ammonium assimilation by young plants of <i>Hordeum vulgare</i> in light and darkness: effects on respiratory oxygen consumption by roots. <i>New Phytologist</i> , 1996 , 132, 375-82	9.8	20
52	Anthocyanins are Key Regulators of Drought Stress Tolerance in Tobacco. <i>Biology</i> , 2021 , 10,	4.9	20
51	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,	3	19
50	Gas exchange and leaf metabolism of irrigated maize at different growth stages. <i>Plant Biosystems</i> , 2011 , 145, 485-494	1.6	19
49	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	6.2	19
48	A Benzimidazole Proton Pump Inhibitor Increases Growth and Tolerance to Salt Stress in Tomato. <i>Frontiers in Plant Science</i> , 2017 , 8, 1220	6.2	18
47	Biochemical, Physiological and Anatomical Mechanisms of Adaptation of and to NaCl and CaCl Salinization. <i>Frontiers in Plant Science</i> , 2019 , 10, 742	6.2	17
46	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	4.1	17
45	Metabolic characterization and antioxidant activity in sweet cherry (<i>Prunus avium</i> L.) Campania accessions: Metabolic characterization of sweet cherry accessions. <i>Food Chemistry</i> , 2018 , 240, 559-566	8.5	17
44	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	3.6	16
43	Morpho-physiological and homeostatic adaptive responses triggered by omeprazole enhance lettuce tolerance to salt stress. <i>Scientia Horticulturae</i> , 2019 , 249, 22-30	4.1	14
42	Effects of vegetal- versus animal-derived protein hydrolysate on sweet basil morpho-physiological and metabolic traits. <i>Scientia Horticulturae</i> , 2021 , 284, 110123	4.1	14
41	The physiological significance of light and dark NH ₄ ⁺ metabolism in <i>Chlorella sorokiniana</i> . <i>Phytochemistry</i> , 1998 , 47, 177-181	4	13
40	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	4.6	13
39	Food Loss and Waste Prevention Strategies from Farm to Fork. <i>Sustainability</i> , 2021 , 13, 5443	3.6	13
38	Challenges for a Sustainable Food Production System on Board of the International Space Station: A Technical Review. <i>Agronomy</i> , 2020 , 10, 687	3.6	12

37	Omeprazole Treatment Enhances Nitrogen Use Efficiency Through Increased Nitrogen Uptake and Assimilation in Corn. <i>Frontiers in Plant Science</i> , 2019 , 10, 1507	6.2	12
36	Salinity Duration Differently Modulates Physiological Parameters and Metabolites Profile in Roots of Two Contrasting Barley Genotypes. <i>Plants</i> , 2021 , 10,	4.5	12
35	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	3.6	11
34	Omeprazole Promotes Chloride Exclusion and Induces Salt Tolerance in Greenhouse Basil. <i>Agronomy</i> , 2019 , 9, 355	3.6	11
33	DGGE analysis of buffalo manure eubacteria for hydrogen production: effect of pH, temperature and pretreatments. <i>Molecular Biology Reports</i> , 2012 , 39, 10193-200	2.8	11
32	Process optimisation and physicochemical characterisation of potato powder. <i>International Journal of Food Science and Technology</i> , 2009 , 44, 145-151	3.8	11
31	Metabolomics for Crop Improvement Against Salinity Stress 2018 , 267-287		11
30	Photosynthesis in L.: The Influence of the Hybrid and the Preparation Procedure of Tuberos Roots. <i>Frontiers in Plant Science</i> , 2019 , 10, 241	6.2	10
29	The role of light quality of photoperiodic lighting on photosynthesis, flowering and metabolic profiling in Ranunculus asiaticus L. <i>Physiologia Plantarum</i> , 2020 , 170, 187-201	4.6	10
28	Effects of sulfate-starvation and re-supply on growth, NH ₄ ⁺ uptake and starch metabolism in Chlorella sorokiniana. <i>Functional Plant Biology</i> , 2000 , 27, 335	2.7	10
27	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	1.7	9
26	Plant Genes for Abiotic Stress 2011 ,		9
25	cDNA cloning and differential expression patterns of ascorbate peroxidase during post-harvest in Brassica rapa L. <i>Molecular Biology Reports</i> , 2012 , 39, 7843-53	2.8	8
24	Effects of the Allelochemicals Dihydrodiconiferyl Alcohol and Lariciresinol on Metabolism of Lactuca sativa. <i>The Open Bioactive Compounds Journal</i> , 2010 , 3, 18-24	1.3	8
23	Transcription Factors and Genes in Abiotic Stress 2012 , 317-357		7
22	Based Extracts Counteract Salinity Stress in Tomato by Remodeling Leaf Nitrogen Metabolism. <i>Plants</i> , 2021 , 10,	4.5	7
21	Nutrient Solution Deprivation as a Tool to Improve Hydroponics Sustainability: Yield, Physiological, and Qualitative Response of Lettuce. <i>Agronomy</i> , 2021 , 11, 1469	3.6	7
20	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,	4.9	6

19	Ty1-copia group retrotransposons and the evolution of retroelements in several angiosperm plants: evidence of horizontal transmission. <i>Bioinformation</i> , 2012 , 8, 267-71	1.1	5
18	Metabolic Profile and Performance Responses of L. Hybrids as Affected by Light Quality of Photoperiodic Lighting. <i>Frontiers in Plant Science</i> , 2020 , 11, 597823	6.2	4
17	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	3.6	4
16	Transcription Factors and Environmental Stresses in Plants 2014 , 57-78		3
15	Unveiling the Enigmatic Structure of TdCMO Transcripts in Durum Wheat. <i>Agronomy</i> , 2018 , 8, 270	3.6	3
14	Dataset on antioxidant metabolites and enzymes activities of freshly harvested sweet cherries (L.) of Campania accessions. <i>Data in Brief</i> , 2017 , 15, 522-527	1.2	2
13	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	5.9	2
12	R gene expression changes related to <i>Cercospora hydrangeae</i> L. <i>Molecular Biology Reports</i> , 2013 , 40, 4173-80	2.8	1
11	An HPLC-automated Derivatization for Glutathione and Related Thiols Analysis in <i>Brassica rapa</i> L.. <i>Agronomy</i> , 2021 , 11, 1157	3.6	1
10	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	2.5	1
9	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	3.6	1
8	Melatonin alleviates the adverse effects of water stress in adult olive cultivars (<i>Olea europea</i> cv. Sevillana & Roughani) in field condition. <i>Agricultural Water Management</i> , 2022 , 269, 107681	5.9	0
7	In Vitro Assessment of Bio-Functional Properties from <i>Lactiplantibacillus plantarum</i> Strains. <i>Current Issues in Molecular Biology</i> , 2022 , 44, 2321-2334	2.9	0
6	Effect of the light on ammonium assimilation by roots of young barley plants. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1995 , 129, 943-944		
5	Effect of Ammonium on the Respiration of Roots in Young Barley Plants Grown under Nitrogen Deprivation. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1995 , 129, 983-984		
4	Metabolite changes after ammonium or methylammonium supply in roots of young barley plants. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1995 , 129, 947-948		
3	Remodeling of Carbon and Nitrogen Metabolites in Durum Wheat: A Simple Response to Complex Stimuli. <i>Biology and Life Sciences Forum</i> , 2021 , 4, 76		
2	Cold Treatment Modulates Changes in Primary Metabolites and Flowering of Cut Flower Tulip Hybrids. <i>Horticulturae</i> , 2022 , 8, 371	2.5	

- 1 Cytoprotective and Antigenotoxic Properties of Organic vs. Conventional Tomato Puree: Evidence in Zebrafish Model. *Fishes*, **2022**, 7, 103 2.5