Carlos Correia

List of Publications by Year
in descending order

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100 papers	4,279 citations	101543 36 h-index	123424 61 g-index
102 all docs	102 docs citations	102 times ranked	4165 citing authors

#	Article	IF	Citations
1	Biochar and zeolites did not improve phosphorus uptake or crop productivity in a field trial performed in an irrigated intensive farming system. Soil Use and Management, 2022, 38, 564-575.	4.9	10
2	Pinus elliottii and P. elliottii x P. caribaea hybrid differently cope with combined drought and heat episodes. Industrial Crops and Products, 2022, 176, 114428.	5.2	3
3	Photosynthesis, Yield, Nutrient Availability and Soil Properties after Biochar, Zeolites or Mycorrhizal Inoculum Application to a Mature Rainfed Olive Orchard. Agriculture (Switzerland), 2022, 12, 171.	3.1	9
4	Processed kaolin particles film, an environment friendly and climate change mitigation strategy tool for Mediterranean vineyards. , 2022, , 165-185.		1
5	Zeolites and Biochar Modulate Olive Fruit and Oil Polyphenolic Profile. Antioxidants, 2022, 11, 1332.	5.1	6
6	Effects of water and nutrient availability on morphological, physiological, and biochemical traits of one invasive and one native grass of a Neotropical savanna. Environmental and Experimental Botany, 2021, 182, 104305.	4.2	6
7	Use of commercial mycorrhizal fungi in stress-free growing conditions of potted olive cuttings. Scientia Horticulturae, 2021, 275, 109712.	3.6	10
8	Kaolin foliar spray improves olive tree performance and yield under sustained deficit irrigation. Scientia Horticulturae, 2021, 277, 109795.	3.6	6
9	Optimising grapevine summer stress responses and hormonal balance by applying kaolin in two Portuguese Demarcated Regions. Oeno One, 2021, 55, 207-222.	1.4	9
10	Kaolin Application Modulates Grapevine Photochemistry and Defence Responses in Distinct Mediterranean-Type Climate Vineyards. Agronomy, 2021, 11, 477.	3.0	6
11	A controlled-release fertilizer improved soil fertility but not olive tree performance. Nutrient Cycling in Agroecosystems, 2021, 120, 1-15.	2.2	7
12	Physiological, Biochemical and Molecular Assessment of UV-A and UV-B Supplementation in Solanum lycopersicum. Plants, 2021, 10, 918.	3.5	9
13	Particle film technology modulates xanthophyll cycle and photochemical dynamics of grapevines grown in the Douro Valley. Plant Physiology and Biochemistry, 2021, 162, 647-655.	5.8	4
14	Arbuscular Mycorrhizal Fungi Inoculation Reduced the Growth of Pre-Rooted Olive Cuttings in a Greenhouse. Soil Systems, 2021, 5, 30.	2.6	7
15	Effect of Plant Biostimulants on Nutritional and Chemical Profiles of Almond and Hazelnut. Applied Sciences (Switzerland), 2021, 11, 7778.	2.5	8
16	Inorganic Fertilization at High N Rate Increased Olive Yield of a Rainfed Orchard but Reduced Soil Organic Matter in Comparison to Three Organic Amendments. Agronomy, 2021, 11, 2172.	3.0	10
17	Grey and Black Anti-Hail Nets Ameliorated Apple (Malus Ã— domestica Borkh. cv. Golden Delicious) Physiology under Mediterranean Climate. Plants, 2021, 10, 2578.	3.5	9
18	Olive tree physiology and chemical composition of fruits are modulated by different deficit irrigation strategies. Journal of the Science of Food and Agriculture, 2020, 100, 682-694.	3.5	24

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19	The effect of nitrogen applications on the growth of young olive trees and nitrogen use efficiency. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2020, 44, 278-289.	2.1	17
20	Mycorrhizal Fungi were More Effective than Zeolites in Increasing the Growth of Non-Irrigated Young Olive Trees. Sustainability, 2020, 12, 10630.	3.2	10
21	A Review of the Potential Climate Change Impacts and Adaptation Options for European Viticulture. Applied Sciences (Switzerland), 2020, 10, 3092.	2.5	250
22	Foliar Pre-Treatment with Abscisic Acid Enhances Olive Tree Drought Adaptability. Plants, 2020, 9, 341.	3.5	10
23	Overview of Kaolin Outcomes from Vine to Wine: Cerceal White Variety Case Study. Agronomy, 2020, 10, 1422.	3.0	17
24	Silicon Titanium Oxide Nanoparticles Can Stimulate Plant Growth and the Photosynthetic Pigments on Lettuce Crop. Agriculture, 2020, 66, 148-160.	0.4	4
25	Drought Stress Effects and Olive Tree Acclimation under a Changing Climate. Plants, 2019, 8, 232.	3.5	121
26	The effect of nitrogen fertilization on the incidence of olive fruit fly, olive leaf spot and olive anthracnose in two olive cultivars grown in rainfed conditions. Scientia Horticulturae, 2019, 256, 108658.	3.6	14
27	Evaluating stress responses in cowpea under drought stress. Journal of Plant Physiology, 2019, 241, 153001.	3.5	50
28	Salicylic acid increases drought adaptability of young olive trees by changes on redox status and ionome. Plant Physiology and Biochemistry, 2019, 141, 315-324.	5.8	27
29	Zinc priming and foliar application enhances photoprotection mechanisms in drought-stressed wheat plants during anthesis. Plant Physiology and Biochemistry, 2019, 140, 27-42.	5.8	26
30	Kaolin, an emerging tool to alleviate the effects of abiotic stresses on crop performance. Scientia Horticulturae, 2019, 250, 310-316.	3.6	55
31	Responses of olive plants exposed to different irrigation treatments in combination with heat shock: physiological and molecular mechanisms during exposure and recovery. Planta, 2019, 249, 1583-1598.	3.2	21
32	Screening for drought resistance during germination of modern and old Iberian wheat cultivars. Acta Botanica Croatica, 2019, 78, 169-174.	0.7	2
33	Kaolin and salicylic acid alleviate summer stress in rainfed olive orchards by modulation of distinct physiological and biochemical responses. Scientia Horticulturae, 2019, 246, 201-211.	3.6	35
34	The potential use of the UV-A and UV-B to improve tomato quality and preference for consumers. Scientia Horticulturae, 2019, 246, 777-784.	3.6	42
35	Olive tree response to applied phosphorus in field and pot experiments. Scientia Horticulturae, 2018, 234, 236-244.	3.6	23
36	The role of nighttime water balance on Olea europaea plants subjected to contrasting water regimes. Journal of Plant Physiology, 2018, 226, 56-63.	3.5	27

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37	Seed priming with iron and zinc in bread wheat: effects in germination, mitosis and grain yield. Protoplasma, 2018, 255, 1179-1194.	2.1	52
38	UV-B radiation modulates physiology and lipophilic metabolite profile in Olea europaea. Journal of Plant Physiology, 2018, 222, 39-50.	3.5	44
39	Kaolin particle film application stimulates photoassimilate synthesis and modifies the primary metabolome of grape leaves. Journal of Plant Physiology, 2018, 223, 47-56.	3.5	43
40	Kaolin and salicylic acid foliar application modulate yield, quality and phytochemical composition of olive pulp and oil from rainfed trees. Scientia Horticulturae, 2018, 237, 176-183.	3.6	29
41	Improvement of grapevine physiology and yield under summer stress by kaolin-foliar application: water relations, photosynthesis and oxidative damage. Photosynthetica, 2018, 56, 641-651.	1.7	42
42	Different mechanisms of the metalliferous Zygophyllum fabago shoots and roots to cope with Pb toxicity. Environmental Science and Pollution Research, 2018, 25, 1319-1330.	5.3	37
43	Kaolin modulates ABA and IAA dynamics and physiology of grapevine under Mediterranean summer stress. Journal of Plant Physiology, 2018, 220, 181-192.	3.5	45
44	Olive response to potassium applications under different water regimes and cultivars. Nutrient Cycling in Agroecosystems, 2018, 112, 387-401.	2.2	10
45	Kaolin particle film modulates morphological, physiological and biochemical olive tree responses to drought and rewatering. Plant Physiology and Biochemistry, 2018, 133, 29-39.	5.8	29
46	Salicylic acid modulates olive tree physiological and growth responses to drought and rewatering events in a dose dependent manner. Journal of Plant Physiology, 2018, 230, 21-32.	3.5	38
47	Kaolin particle film application lowers oxidative damage and DNA methylation on grapevine (Vitis) Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	40
48	Photosynthetic performance and volatile organic compounds profile in Eucalyptus globulus after UVB radiation. Environmental and Experimental Botany, 2017, 140, 141-149.	4.2	27
49	Differential physiological and genetic responses of five European Scots pine provenances to induced water stress. Journal of Plant Physiology, 2017, 215, 100-109.	3.5	8
50	Cowpea (Vigna unguiculata L. Walp.) Metabolomics: Osmoprotection as a Physiological Strategy for Drought Stress Resistance and Improved Yield. Frontiers in Plant Science, 2017, 8, 586.	3.6	130
51	Effects of surface and subsurface drip irrigation on physiology and yield of â€˜Godelloâ€™ grapevines grown in Galicia, NW Spain. Ciencia E Tecnica Vitivinicola, 2017, 32, 42-52.	0.9	6
52	Liming and application of nitrogen, phosphorus, potassium,and boron on a young plantation of chestnut. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2017, 41, 441-451.	2.1	16
53	Kaolin Foliar Application Has a Stimulatory Effect on Phenylpropanoid and Flavonoid Pathways in Grape Berries. Frontiers in Plant Science, 2016, 7, 1150.	3.6	76
54	Physiological mechanisms to cope with Cr(VI) toxicity in lettuce: can lettuce be used in Cr phytoremediation?. Environmental Science and Pollution Research, 2016, 23, 15627-15637.	5.3	20

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55	Plasticity of young Moringa oleifera L. plants to face water deficit and UVB radiation challenges. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 278-285.	3.8	29
56	Physiological characterization and true-to-typeness evaluation of inÂvitro and exÂvitro seedlings of Pinus elliottii : A contribution to breeding programs. Plant Physiology and Biochemistry, 2016, 107, 222-227.	5.8	7
57	Phytotoxicity of natural soils using physiological and biochemical endpoints reveals confounding factors: can a weight of evidence tackle uncertainty?. Journal of Soils and Sediments, 2016, 16, 785-800.	3.0	0
58	Kaolin-based, foliar reflective film protects photosystem II structure and function in grapevine leaves exposed to heat and high solar radiation. Photosynthetica, 2016, 54, 47-55.	1.7	72
59	Kaolin exogenous application boosts antioxidant capacity and phenolic content in berries and leaves of grapevine under summer stress. Journal of Plant Physiology, 2016, 191, 45-53.	3.5	77
60	Physiological response to drought in seedlings of Pistacia lentiscus (mastic tree). New Forests, 2016, 47, 119-130.	1.7	18
61	Enhanced Yield and Physiological Performance of Mediterranean Grapevines through Foliar Kaolin Spray. Procedia Environmental Sciences, 2015, 29, 247-248.	1.4	4
62	Photosynthesis light-independent reactions are sensitive biomarkers to monitor lead phytotoxicity in a Pb-tolerant Pisum sativum cultivar. Environmental Science and Pollution Research, 2015, 22, 574-585.	5.3	52
63	Modeling Phenology, Water Status, and Yield Components of Three Portuguese Grapevines Using the STICS Crop Model. American Journal of Enology and Viticulture, 2015, 66, 482-491.	1.7	45
64	Early-maturing annual legumes: an option for cover cropping in rainfed olive orchards. Nutrient Cycling in Agroecosystems, 2015, 103, 153-166.	2.2	40
65	Leguminous Cover Crops Improve the Profitability and the Sustainability of Rainfed Olive (Olea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Environmental Sciences, 2015, 29, 282-283.	1.4	14
66	Enhanced Ultraviolet-B Radiation Affect Growth, Yield and Physiological Processes on Triticale Plants. Procedia Environmental Sciences, 2015, 29, 219-220.	1.4	15
67	Rice (Oryza sativa L.) phenolic compounds under elevated carbon dioxide (CO2) concentration. Environmental and Experimental Botany, 2014, 99, 28-37.	4.2	51
68	Physiological and biochemical responses of Semillon and Muscat Blanc Ã Petits Grains winegrapes grown under Mediterranean climate. Scientia Horticulturae, 2014, 175, 128-138.	3.6	19
69	Study of the effects of foliar application of ABA during acclimatization. Plant Cell, Tissue and Organ Culture, 2014, 117, 213-224.	2.3	23
70	Foliar application of Sili-KÂ® increases chestnut (Castanea spp.) growth and photosynthesis, simultaneously increasing susceptibility to water deficit. Plant and Soil, 2013, 365, 211-225.	3.7	28
71	Soil nitrogen availability in olive orchards after mulching legume cover crop residues. Scientia Horticulturae, 2013, 158, 45-51.	3.6	45
72	Cadmium toxicity affects photosynthesis and plant growth at different levels. Acta Physiologiae Plantarum, 2013, 35, 1281-1289.	2.1	238

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73	Photosynthetic parameters of Ulmus minor plantlets affected by irradiance during acclimatization. Biologia Plantarum, 2013, 57, 33-40.	1.9	24
74	Sensory analysis and volatile compounds of olive oil (cv. CobranÃ§osa) from different irrigation regimes. Grasas Y Aceites, 2013, 64, 59-67.	0.9	23
75	Water Use Strategies of Plants Under Drought Conditions. , 2012, , 145-170.		32
76	Ultraviolet-B Radiation and Nitrogen Affect Nutrient Concentrations and the Amount of Nutrients Acquired by Above-Ground Organs of Maize. Scientific World Journal, The, 2012, 2012, 1-11.	2.1	32
77	Impacts of leafrollâ€associated viruses (<scp>GLRaV</scp>â€1 and â€3) on the physiology of the <scp>P</scp>ortuguese grapevine cultivar â€˜<scp>T</scp>ouriga <scp>N</scp>acionalâ€™ growing under field conditions. Annals of Applied Biology, 2012, 160, 237-249.	2.5	46
78	Chromium (VI) induces toxicity at different photosynthetic levels in pea. Plant Physiology and Biochemistry, 2012, 53, 94-100.	5.8	130
79	Aluminium long-term stress differently affects photosynthesis in rye genotypes. Plant Physiology and Biochemistry, 2012, 54, 105-112.	5.8	56
80	Olive Yields and Tree Nutritional Status during a Four-Year Period without Nitrogen and Boron Fertilization. Communications in Soil Science and Plant Analysis, 2011, 42, 803-814.	1.4	38
81	Effects of Open-Top Chambers on physiological and yield attributes of field grown grapevines. Acta Physiologiae Plantarum, 2010, 32, 395-403.	2.1	14
82	Influence of different irrigation regimes on crop yield and water use efficiency of olive. Plant and Soil, 2010, 333, 35-47.	3.7	73
83	Physiological responses of different olive genotypes to drought conditions. Acta Physiologiae Plantarum, 2009, 31, 611-621.	2.1	67
84	Effects of Elevated CO₂ on Grapevine (Vitis vinifera L.): Volatile Composition, Phenolic Content, and in Vitro Antioxidant Activity of Red Wine. Journal of Agricultural and Food Chemistry, 2009, 57, 265-273.	5.2	105
85	Leaf structure and function of sweet cherry tree (Prunus avium L.) cultivars with open and dense canopies. Scientia Horticulturae, 2008, 116, 381-387.	3.6	43
86	Changes in growth, gas exchange, xylem hydraulic properties and water use efficiency of three olive cultivars under contrasting water availability regimes. Environmental and Experimental Botany, 2007, 60, 183-192.	4.2	126
87	Gas exchange and water relations of three Vitis vinifera L. cultivars growing under Mediterranean climate. Photosynthetica, 2007, 45, .	1.7	36
88	Physiological behaviour, oxidative damage and antioxidative protection of olive trees grown under different irrigation regimes. Plant and Soil, 2007, 292, 1-12.	3.7	126
89	Variation in xylem structure and function in roots and stems of scionâ€“rootstock combinations of sweet cherry tree (Prunus avium L.). Trees - Structure and Function, 2007, 21, 121-130.	1.9	61
90	Scion-rootstock interaction affects the physiology and fruit quality of sweet cherry. Tree Physiology, 2006, 26, 93-104.	3.1	152

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91	Immediate responses and adaptative strategies of three olive cultivars under contrasting water availability regimes: Changes on structure and chemical composition of foliage and oxidative damage. Plant Science, 2006, 170, 596-605.	3.6	153
92	Ultraviolet-B radiation and nitrogen affect the photosynthesis of maize: a Mediterranean field study. European Journal of Agronomy, 2005, 22, 337-347.	4.1	112
93	Sclerophylly and leaf anatomical traits of five field-grown olive cultivars growing under drought conditions. Tree Physiology, 2004, 24, 233-239.	3.1	174
94	Leaf Gas Exchange and Water Relations of Grapevines Grown in Three Different Conditions. Photosynthetica, 2004, 42, 81-86.	1.7	67
95	Ultraviolet-B radiation and nitrogen effects on growth and yield of maize under Mediterranean field conditions. European Journal of Agronomy, 2000, 12, 117-125.	4.1	37
96	Intraspecific variation in sensitivity to ultraviolet-B radiation in maize grown under field conditions. Field Crops Research, 1999, 62, 97-105.	5.1	70
97	Growth, photosynthesis and UV-B absorbing compounds of Portuguese Barbela wheat exposed to ultraviolet-B radiation. Environmental Pollution, 1999, 104, 383-388.	7.5	43
98	Intraspecific variation in sensitivity to ultraviolet-B radiation in maize grown under field conditions. I. Growth and morphological aspects. Field Crops Research, 1998, 59, 81-89.	5.1	63
99	Combined biochar and organic waste have little effect on chemical soil properties and plant growth. Spanish Journal of Soil Science, 0, 9, .	0.0	6
100	Cytogenetic and molecular characterization of almond trees treated with plant biostimulants or boron-based fertilizers. Plant Growth Regulation, 0, , .	3.4	1