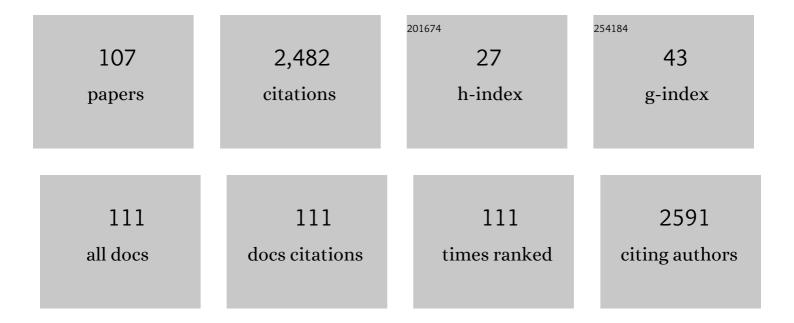
Carmen Arena

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of Ecklonia maxima seaweed extract on yield, mineral composition, gas exchange, and leaf anatomy of zucchini squash grown under saline conditions. Journal of Applied Phycology, 2017, 29, 459-470.	2.8	153
2	Effects of sparsely and densely ionizing radiation on plants. Radiation and Environmental Biophysics, 2011, 50, 1-19.	1.4	126
3	The effect of light quality on growth, photosynthesis, leaf anatomy and volatile isoprenoids of a monoterpene-emitting herbaceous species (Solanum lycopersicum L.) and an isoprene-emitting tree (Platanus orientalis L.). Environmental and Experimental Botany, 2016, 130, 122-132.	4.2	85
4	Space radiation effects on plant and mammalian cells. Acta Astronautica, 2014, 104, 419-431.	3.2	78
5	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.	5.6	78
6	Organic matter, nutrient content and biological activity in burned and unburned soils of a Mediterranean maquis area of southern Italy. International Journal of Wildland Fire, 2005, 14, 365.	2.4	76
7	The Use of a Plant-Based Biostimulant Improves Plant Performances and Fruit Quality in Tomato Plants Grown at Elevated Temperatures. Agronomy, 2020, 10, 363.	3.0	75
8	The role of monochromatic red and blue light in tomato early photomorphogenesis and photosynthetic traits. Environmental and Experimental Botany, 2020, 179, 104195.	4.2	74
9	Ultrastructural, protein and photosynthetic alterations induced by Pb and Cd in Cynara cardunculus L., and its potential for phytoremediation. Ecotoxicology and Environmental Safety, 2017, 145, 83-89.	6.0	67
10	Temperature response of photosynthesis, excitation energy dissipation and alternative electron sinks to carbon assimilation in Beta vulgaris L Environmental and Experimental Botany, 2006, 55, 248-257.	4.2	60
11	Performance of three cardoon cultivars in an industrial heavy metal-contaminated soil: Effects on morphology, cytology and photosynthesis. Journal of Hazardous Materials, 2018, 351, 131-137.	12.4	59
12	Overall plant responses to Cd and Pb metal stress in maize: Growth pattern, ultrastructure, and photosynthetic activity. Environmental Science and Pollution Research, 2019, 26, 1781-1790.	5.3	58
13	Growth alteration and leaf biochemical responses in <i><scp>P</scp>haseolus vulgaris</i> exposed to different doses of ionising radiation. Plant Biology, 2014, 16, 194-202.	3.8	47
14	An assessment of the influence of the urban environment on collembolan communities in soils using taxonomy- and trait-based approaches. Applied Soil Ecology, 2014, 78, 48-56.	4.3	47
15	Leaf Anatomy and Photochemical Behaviour of <i>Solanum lycopersicum</i> L. Plants from Seeds Irradiated with Low-LET Ionising Radiation. Scientific World Journal, The, 2014, 2014, 1-13.	2.1	45
16	Changes in Leaf Anatomical Traits Enhanced Photosynthetic Activity of Soybean Grown in Hydroponics with Plant Growth-Promoting Microorganisms. Frontiers in Plant Science, 2017, 8, 674.	3.6	42
17	Vapour pressure deficit: The hidden driver behind plant morphofunctional traits in controlled environments. Annals of Applied Biology, 2019, 175, 313-325.	2.5	41
18	Anatomy and photochemical behaviour of Mediterranean <i>Cistus incanus</i> winter leaves under natural outdoor and warmer indoor conditions. Botany, 2011, 89, 677-688.	1.0	39

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19	Effects of four food dyes on development of three model species, Cucumis sativus, Artemia salina and Danio rerio: Assessment of potential risk for the environment. Environmental Pollution, 2019, 253, 1126-1135.	7.5	39
20	Suitability of <i>Solanum lycopersicum</i> L. â€~Microtom' for growth in Bioregenerative Life Support Systems: exploring the effect of highâ€ <scp>LET</scp> ionising radiation on photosynthesis, leaf structure and fruit traits. Plant Biology, 2019, 21, 615-626.	3.8	39
21	Impact of the invasive tree black locust on soil properties of Mediterranean stone pine-holm oak forests. Plant and Soil, 2013, 372, 473-486.	3.7	36
22	Comparative Studies on Different Citrus Cultivars: A Revaluation of Waste Mandarin Components. Antioxidants, 2020, 9, 517.	5.1	36
23	Paraheliotropism in <i>Robinia pseudoacacia</i> L.: an efficient strategy to optimise photosynthetic performance under natural environmental conditions. Plant Biology, 2008, 10, 194-201.	3.8	33
24	Implication of vitality, seasonality and specific leaf area on PAH uptake in moss and lichen transplanted in bags. Ecological Indicators, 2020, 108, 105727.	6.3	32
25	Anatomical alterations of <i><scp><i>P</i></scp>haseolus vulgaris </i> <scp>L</scp> . mature leaves irradiated with <scp>X</scp> â€rays. Plant Biology, 2014, 16, 187-193.	3.8	31
26	Eco-physiological response to water stress of drought-tolerant and drought-sensitive tomato genotypes. Plant Biosystems, 2016, 150, 682-691.	1.6	30
27	Light quality shapes morpho-functional traits and pigment content of green and red leaf cultivars of Atriplex hortensis. Scientia Horticulturae, 2019, 246, 942-950.	3.6	29
28	Photosynthesis and photoprotective strategies in <i>Laurus nobilis</i> L. and <i>Quercus ilex</i> L. under summer drought and winter cold. Plant Biosystems, 2008, 142, 472-479.	1.6	28
29	Biochemical, Physiological and Anatomical Mechanisms of Adaptation of Callistemon citrinus and Viburnum lucidum to NaCl and CaCl2 Salinization. Frontiers in Plant Science, 2019, 10, 742.	3.6	28
30	Spatial and temporal variations of the inherent and apparent optical properties in a shallow coastal lake. Journal of Photochemistry and Photobiology B: Biology, 2005, 80, 161-177.	3.8	27
31	Assessment of Eco-Physiological Performance of Quercus ilex L. Leaves in Urban Area by an Integrated Approach. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	27
32	Response of Phaseolus vulgaris L. plants to low-let ionizing radiation: Growth and oxidative stress. Acta Astronautica, 2013, 91, 107-114.	3.2	26
33	Growth and gas exchange response to water shortage of a maize crop on different soil types. Acta Physiologiae Plantarum, 2009, 31, 331-341.	2.1	24
34	Seasonal changes in photosynthetic activity and photochemical efficiency of the Mediterranean shrub <i>Phillyrea angustifolia</i> L. Plant Biosystems, 2012, 146, 443-450.	1.6	24
35	Metal compartmentalization in different biomass portions of Helianthus annuus L. and Sorghum bicolor L. grown in an agricultural field inside an urban fabric. Applied Soil Ecology, 2017, 121, 118-126.	4.3	24
36	Growth, photosynthetic activity and tuber quality of two potato cultivars in controlled environment as affected by light source. Plant Biosystems, 2019, 153, 725-735.	1.6	24

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37	Biology and crop production in Space environments: Challenges and opportunities. Life Sciences in Space Research, 2021, 29, 30-37.	2.3	24
38	Antioxidant Properties of Pulp, Peel and Seeds of Phlegrean Mandarin (Citrus reticulata Blanco) at Different Stages of Fruit Ripening. Antioxidants, 2022, 11, 187.	5.1	24
39	Gas exchange and leaf metabolism of irrigated maize at different growth stages. Plant Biosystems, 2011, 145, 485-494.	1.6	23
40	Eco-Physiological Screening of Different Tomato Genotypes in Response to High Temperatures: A Combined Field-to-Laboratory Approach. Plants, 2020, 9, 508.	3.5	23
41	Leaf morpho-anatomical traits in Vigna radiata L. affect plant photosynthetic acclimation to changing vapor pressure deficit. Environmental and Experimental Botany, 2021, 186, 104453.	4.2	22
42	Physiological, biochemical and molecular responses to water stress and rehydration in Mediterranean adapted tomato landraces. Plant Biology, 2018, 20, 995-1004.	3.8	21
43	Effects of water stress on gas exchange of field grown Zea mays L. in Southern Italy: an analysis at canopy and leaf level. Acta Physiologiae Plantarum, 2007, 29, 317-326.	2.1	20
44	Photosynthesis and mineralogy of Jania rubens at low pH/high pCO2: A future perspective. Science of the Total Environment, 2018, 628-629, 375-383.	8.0	20
45	Functional and Structural Leaf Plasticity Determine Photosynthetic Performances during Drought Stress and Recovery in Two Platanus orientalis Populations from Contrasting Habitats. International Journal of Molecular Sciences, 2020, 21, 3912.	4.1	20
46	Effects of different light quality and biofertilizers on structural and physiological traits of spinach plants. Photosynthetica, 2020, 58, 932-943.	1.7	20
47	High Light Intensity from Blue-Red LEDs Enhance Photosynthetic Performance, Plant Growth, and Optical Properties of Red Lettuce in Controlled Environment. Horticulturae, 2022, 8, 114.	2.8	20
48	Characterization and role of poly(ADP-ribosyl)ation in the Mediterranean species Cistus incanus L. under different temperature conditions. Plant Physiology and Biochemistry, 2011, 49, 435-440.	5.8	19
49	Eco-physiological and Antioxidant Responses of Holm Oak (Quercus ilex L.) Leaves to Cd and Pb. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	19
50	Heavy metal accumulation in leaves affects physiological performance and litter quality of Quercus ilex L. Journal of Plant Nutrition and Soil Science, 2013, 176, 776-784.	1.9	16
51	Anatomy, photochemical activity, and DNA polymorphism in leaves of dwarf tomato irradiated with X-rays. Biologia Plantarum, 2017, 61, 305-314.	1.9	16
52	Physiological responses of a population of Sargassum vulgare (Phaeophyceae) to high pCO 2 /low pH: implications for its long-term distribution. Science of the Total Environment, 2017, 576, 917-925.	8.0	16
53	The role of light quality of photoperiodic lighting on photosynthesis, flowering and metabolic profiling in <i>Ranunculus asiaticus</i> L Physiologia Plantarum, 2020, 170, 187-201.	5.2	16
54	The Interplay between Light Quality and Biostimulant Application Affects the Antioxidant Capacity and Photosynthetic Traits of Soybean (Glycine max L. Merrill). Plants, 2021, 10, 861.	3.5	16

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55	The Ageing Process Affects the Antioxidant Defences and the Poly (ADPribosyl)ation Activity in Cistus Incanus L. Leaves. Antioxidants, 2019, 8, 528.	5.1	15
56	Suitability of two types of organic wastes for the growth of sclerophyllous shrubs on limestone debris: A mesocosm trial. Science of the Total Environment, 2010, 408, 1508-1514.	8.0	14
57	Winter and summer leaves of Cistus incanus: differences in leaf morphofunctional traits, photosynthetic energy partitioning, and poly(ADP-ribose) polymerase (PARP) activity. Botany, 2013, 91, 805-813.	1.0	14
58	Dust accumulation due to anthropogenic impact induces anatomical and photochemical changes in leaves of <i>Centranthus ruber</i> growing on the slope of the Vesuvius volcano. Plant Biology, 2020, 22, 93-102.	3.8	14
59	Long-term response of Dictyota dichotoma var. intricata (C. Agardh) Greville (Phaeophyceae) to ocean acidification: Insights from high pCO2 vents. Science of the Total Environment, 2020, 731, 138896.	8.0	13
60	Effect of light quality and ionising radiation on morphological and nutraceutical traits of sprouts for astronauts' diet. Acta Astronautica, 2021, 185, 188-197.	3.2	13
61	Modelling the components of the vertical attenuation of ultraviolet radiation in a wetland lake ecosystem. Ecological Modelling, 2005, 186, 43-54.	2.5	12
62	Photosynthesis in Ranunculus asiaticus L.: The Influence of the Hybrid and the Preparation Procedure of Tuberous Roots. Frontiers in Plant Science, 2019, 10, 241.	3.6	12
63	Light response of photosynthesis and stomatal conductance of rose leaves in the canopy profile: the effect of lighting on the adaxial and the abaxial sides. Functional Plant Biology, 2020, 47, 639.	2.1	12
64	Physiological and structural adjustments of two ecotypes of <i>Platanus orientalis</i> L. from different habitats in response to drought and re-watering. , 2018, 6, coy073.		11
65	Photo-Protective Mechanisms and the Role of Poly (ADP-Ribose) Polymerase Activity in a Facultative CAM Plant Exposed to Long-Term Water Deprivation. Plants, 2020, 9, 1192.	3.5	11
66	Photosynthetic response of Quercus ilex L. plants grown on compost and exposed to increasing photon flux densities and elevated CO ₂ . Photosynthetica, 2005, 43, 615-619.	1.7	10
67	Ecophysiological response of Jania rubens (Corallinaceae) to ocean acidification. Rendiconti Lincei, 2018, 29, 543-546.	2.2	10
68	Light and Low Relative Humidity Increase Antioxidants Content in Mung Bean (Vigna radiata L.) Sprouts. Plants, 2020, 9, 1093.	3.5	10
69	Light Fertilization Affects Growth and Photosynthesis in Mung Bean (Vigna radiata) Plants. Journal of Environmental Accounting and Management, 2018, 6, 295-304.	0.5	9
70	Comparative Analysis of the Effect of Carbon- and Titanium-Ions Irradiation on Morpho-Anatomical and Biochemical Traits of Dolichos melanophthalmus DC. Seedlings Aimed to Space Exploration. Plants, 2021, 10, 2272.	3.5	9
71	The efficient physiological strategy of a novel tomato genotype to adapt to chronic combined water and heat stress. Plant Biology, 2022, 24, 62-74.	3.8	9
72	Influence of irradiance on photosynthesis and PSII photochemical efficiency in maize during short-term exposure at high CO ₂ concentration. Photosynthetica, 2011, 49, 267-274.	1.7	8

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73	Effects of 3,4-dimethylphyrazole phosphate-added nitrogen fertilizers on crop growth and N ₂ O emissions in Southern Italy. Plant, Soil and Environment, 2013, 59, 517-523.	2.2	8
74	Water regime affects soil N2O emission and tomato yield grown under different types of fertilisers. Italian Journal of Agronomy, 0, , 74-79.	1.0	8
75	Full light and soil drought constrain plant growth in Mediterranean cliffs: the case of <i>Primula palinuri</i> Petagna. Plant Biosystems, 2018, 152, 863-872.	1.6	8
76	Counteracting the Negative Effects of Copper Limitations Through the Biostimulatory Action of a Tropical Plant Extract in Grapevine Under Pedo-Climatic Constraints. Frontiers in Environmental Science, 2021, 9, .	3.3	8
77	Facing metal stress by multiple strategies: morphophysiological responses of cardoon (Cynara) Tj ETQq1 1 0.78 37616-37626.	4314 rgBT 5.3	- /Overlock 1(8
78	Cross-correlations of Biogenic Volatile Organic Compounds (BVOC) emissions typify different phenological stages and stressful events in a Mediterranean Sorghum plantation. Agricultural and Forest Meteorology, 2021, 303, 108380.	4.8	8
79	Effects of heat stress on gas exchange and photosystem II (PSII) photochemical activity of <i>Phillyrea angustifolia</i> exposed to elevated CO ₂ and subsaturating irradiance. Botany, 2008, 86, 435-441.	1.0	7
80	Light Spectral Composition Influences Structural and Eco-Physiological Traits of Solanum lycopersicum L. cv. †Microtom' in Response to High-LET Ionizing Radiation. Plants, 2021, 10, 1752.	3.5	7
81	Morphological and physiological modifications of <i>Cistus salvifolius</i> L. winter leaves in response to the rise in winter temperatures. Plant Biosystems, 2014, 148, 1093-1101.	1.6	6
82	Chilling-induced reduction of photosynthesis is mitigated by exposure to elevated CO ₂ concentrations. Photosynthetica, 2018, 56, 1259-1267.	1.7	6
83	Effects of the Fertilizer Added with DMPP on Soil Nitrous Oxide Emissions and Microbial Functional Diversity. Agriculture (Switzerland), 2021, 11, 12.	3.1	6
84	Manipulation of light quality is an effective tool to regulate photosynthetic capacity and fruit antioxidant properties of <i>Solanum lycopersicum</i> L. cv. †Microtom' in a controlled environment. PeerJ, 0, 10, e13677.	2.0	6
85	Relationships between Quercus ilex L. litter characteristics and soil microarthropod community in an urban environment at different climatic conditions. Applied Soil Ecology, 2016, 99, 98-109.	4.3	5
86	Effects of NaCl and CaCl2 Salinization on Morpho-Anatomical and Physiological Traits of Potted Callistemon citrinus Plants. Forests, 2021, 12, 1666.	2.1	5
87	Different Relationship Between Electron Transport and CO2 Assimilation in two Zea mays Cultivars as Influenced by Increasing Irradiance. Photosynthetica, 2003, 41, 489-495.	1.7	4
88	Ecosystem carbon fluxes of a ryegrass and clover fodder crop in a Mediterranean environment. Photosynthetica, 2011, 49, .	1.7	4
89	The Modulation of Water, Nitrogen, and Phosphorous Supply for Growth Optimization of the Evergreen Shrubs Ammopiptanthus mongolicus for Revegetation Purpose. Frontiers in Plant Science, 2021, 12, 766523.	3.6	4
90	Commercial Red Food Dyes Preparations Modulate the Oxidative State in Three Model Organisms (Cucumis sativus, Artemia salina, and Danio rerio). Environments - MDPI, 2022, 9, 63.	3.3	4

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91	Light Quality Modulates Photosynthesis and Antioxidant Properties of B. vulgaris L. Plants from Seeds Irradiated with High-Energy Heavy Ions: Implications for Cultivation in Space. Plants, 2022, 11, 1816.	3.5	4
92	Light spectral composition affects metabolic response and flowering in non-vernalized Ranunculus asiaticus L Environmental and Experimental Botany, 2021, 192, 104649.	4.2	3
93	Changes in Morpho-Anatomical and Eco-Physiological Responses of Viburnum tinus L. var lucidum as Modulated by Sodium Chloride and Calcium Chloride Salinization. Horticulturae, 2022, 8, 119.	2.8	3
94	How Leaf Vein and Stomata Traits Are Related with Photosynthetic Efficiency in Falanghina Grapevine in Different Pedoclimatic Conditions. Plants, 2022, 11, 1507.	3.5	3
95	Comparative Toxicity of Vegan Red, E124, and E120 Food Dyes on Three Rapidly Proliferating Model Systems. Environments - MDPI, 2022, 9, 89.	3.3	3
96	Editorial: Higher Plants, Algae and Cyanobacteria in Space Environments. Frontiers in Plant Science, 2021, 12, 629014.	3.6	2
97	Biogenic Volatile Organic Compounds (BVOCs) exchanges over Sorghum bicolor L. during a whole growing season in the Southern Europe. , 2019, , .		1
98	Aerated Buffalo Slurry Improves Spinach Plant Growth and Mitigates CO2 and N2O Emissions from Soil. Agriculture (Switzerland), 2021, 11, 758.	3.1	1
99	The influence of the hybrid and the duration of vernalization of tuberous roots on photosynthesis and flowering in Ranunculus asiaticus L Acta Horticulturae, 2020, , 493-500.	0.2	1
100	Paraheliotropism in Robinia pseudoacacia Plants: An Efficient Means to Cope with Photoinhibition. , 2008, , 1403-1406.		1
101	Anatomy and eco-physiology of leaves and twigs of Cistus incanus L.: Adaptive strategies to the environmental constraints of the Mediterranean ecosystems. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, S172.	1.8	0
102	Effects of Nitrogen and/or Sulphur Deprivation on the Regulation of Photosynthesis in Barley Seedlings. , 2008, , 1603-1606.		0
103	Photosynthetic Adaptive Strategies in Evergreen and Semi-Deciduous Species of Mediterranean Maquis During Winter. , 0, , .		0
104	Relationships Among Plant Traits, Soil Characteristics and Olive Oil Properties in Different Olea europaea L. Cultivars. Journal of Nutritional Ecology and Food Research, 2016, 3, 59-66.	0.1	0
105	Environmental Quality and Management. Journal of Environmental Accounting and Management, 2018, 6, 291-294.	0.5	0
106	Photosynthesis in Ranunculus asiaticus L.: characterization in two Mediterranean hybrids under fluorescent white light. Acta Horticulturae, 2020, , 163-168.	0.2	0
107	Effects of a simulated heat wave on growth and photosynthesis of <i>Quercus ilex</i> L. and <i>Arbutus unedo</i> L. seedlings. Acta Horticulturae, 2022, , 725-732.	0.2	Ο