

# Simona Carfagna

## List of Publications by Year in descending order

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46  
papers

1,063  
citations

361045

20  
h-index

433756

31  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological and morphological responses of Lead or Cadmium exposed <i>Chlorella sorokiniana</i> 211-8K (Chlorophyceae). SpringerPlus, 2013, 2, 147.	1.2	83
2	Ammonium Utilization in Microalgae: A Sustainable Method for Wastewater Treatment. Sustainability, 2021, 13, 956.	1.6	76
3	Glucose-6-phosphate dehydrogenase in barley roots: kinetic properties and localisation of the isoforms. Planta, 2001, 212, 627-634.	1.6	72
4	Characterization of a Developmental Root Response Caused by External Ammonium Supply in <i>Lotus japonicus</i> . Plant Physiology, 2010, 154, 784-795.	2.3	66
5	Glutamate synthase activities and protein changes in relation to nitrogen nutrition in barley: the dependence on different plastidic glucose-6P dehydrogenase isoforms. Journal of Experimental Botany, 2004, 56, 55-64.	2.4	64
6	Temperature responses of growth, photosynthesis, respiration and NADH: nitrate reductase in cryophilic and mesophilic algae. New Phytologist, 2004, 163, 325-331.	3.5	64
7	Glutamate synthesis in barley roots: the role of the plastidic glucose-6-phosphate dehydrogenase. Planta, 2003, 216, 639-647.	1.6	48
8	Determination of Reduced and Total Glutathione Content in Extremophilic Microalga <i>Galdieria phlegrea</i> . Bio-protocol, 2017, 7, e2372.	0.2	40
9	Temperature dependence of nitrate reductase in the psychrophilic unicellular alga <i>Koliella antarctica</i> and the mesophilic alga <i>Chlorella sorokiniana</i> . Plant, Cell and Environment, 2006, 29, 1400-1409.	2.8	36
10	Different characteristics of C-phycoerythrin (C-PC) in two strains of the extremophilic <i>Galdieria phlegrea</i> . Algal Research, 2018, 31, 406-412.	2.4	36
11	Sulfur Deprivation Results in Oxidative Perturbation in <i>Chlorella sorokiniana</i> (211/8k). Plant and Cell Physiology, 2015, 56, 897-905.	1.5	35
12	Nitrogen assimilation and cysteine biosynthesis in barley: Evidence for root sulphur assimilation upon recovery from N deprivation. Environmental and Experimental Botany, 2011, 71, 18-24.	2.0	32
13	Changes in cysteine and O-acetyl-L-serine levels in the microalga <i>Chlorella sorokiniana</i> in response to the S-nutritional status. Journal of Plant Physiology, 2011, 168, 2188-2195.	1.6	30
14	Dietary Supplementation with the Microalga <i>Galdieria sulphuraria</i> (Rhodophyta) Reduces Prolonged Exercise-Induced Oxidative Stress in Rat Tissues. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-11.	1.9	29
15	Impact of Sulfur Starvation in Autotrophic and Heterotrophic Cultures of the Extremophilic Microalga <i>Galdieria phlegrea</i> (Cyanidiophyceae). Plant and Cell Physiology, 2016, 57, 1890-1898.	1.5	29
16	Ammonium induction of a novel isoform of glucose-6P dehydrogenase in barley roots. Physiologia Plantarum, 2001, 113, 469-476.	2.6	28
17	Rapid and Positive Effect of Bicarbonate Addition on Growth and Photosynthetic Efficiency of the Green Microalgae <i>Chlorella Sorokiniana</i> (Chlorophyta, Trebouxiophyceae). Applied Sciences (Switzerland), 2020, 10, 4515.	1.3	27
18	Ammonium assimilation by young plants of <i>Hordeum vulgare</i> in light and darkness: effects on respiratory oxygen consumption by roots. New Phytologist, 1996, 132, 375-382.	3.5	25

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19	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
20	Functional ingredients produced by culture of <i>Koliella antarctica</i> . <i>Aquaculture</i> , 2010, 299, 115-120.	1.7	22
21	Antioxidant and anti-proliferative properties of extracts from heterotrophic cultures of <i>Galdieria sulphuraria</i> . <i>Natural Product Research</i> , 2019, 33, 1659-1663.	1.0	19
22	The physiological significance of light and dark NH <sub>4</sub> <sup>+</sup> metabolism in <i>Chlorella sorokiniana</i> . <i>Phytochemistry</i> , 1998, 47, 177-181.	1.4	15
23	Affinity Purification of O-Acetylserine(thiol)lyase from <i>Chlorella sorokiniana</i> by Recombinant Proteins from <i>Arabidopsis thaliana</i> . <i>Metabolites</i> , 2014, 4, 629-639.	1.3	15
24	Long-term multi-endpoint exposure of the microalga <i>Raphidocelis subcapitata</i> to lanthanum and cerium. <i>Science of the Total Environment</i> , 2021, 790, 148229.	3.9	15
25	Growth, photosynthesis, and respiration of <i>Chlorella sorokiniana</i> after N-starvation. Interactions between light, CO <sub>2</sub> and NH <sub>4</sub> <sup>+</sup> supply. <i>Physiologia Plantarum</i> , 1999, 105, 288-293.	2.6	14
26	Effects of sulfate-starvation and re-supply on growth, NH <sub>4</sub> <sup>+</sup> uptake and starch metabolism in <i>Chlorella sorokiniana</i> . <i>Functional Plant Biology</i> , 2000, 27, 335.	1.1	13
27	Glucose-6P dehydrogenase in <i>Chlorella sorokiniana</i> (211/8k): an enzyme with unusual characteristics. <i>Planta</i> , 2006, 223, 796-804.	1.6	11
28	Effect of Bicarbonate on Growth of the Oleaginous Microalga <i>Botryococcus braunii</i> . <i>International Journal of Plant Biology</i> , 2019, 10, 8273.	1.1	11
29	Use of an immobilised thermostable CA (SspCA) for enhancing the metabolic efficiency of the freshwater green microalga <i>Chlorella sorokiniana</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 913-920.	2.5	11
30	Comparative analysis of photosynthetic and respiratory parameters in the psychrophilic unicellular green alga <i>Koliella antarctica</i> , cultured in indoor and outdoor photo-bioreactors. <i>Physiology and Molecular Biology of Plants</i> , 2018, 24, 1139-1146.	1.4	9
31	Simultaneous Biochemical and Physiological Responses of the Roots and Leaves of <i>Pancreatum maritimum</i> (Amaryllidaceae) to Mild Salt Stress. <i>Plants</i> , 2021, 10, 345.	1.6	8
32	Heterotrophic Cultures of <i>Galdieria phlegrea</i> Shift to Autotrophy in the Presence or Absence of Glycerol. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 371-378.	2.8	7
33	Enhancement of Pigments Production by <i>Nannochloropsis oculata</i> Cells in Response to Bicarbonate Supply. <i>Sustainability</i> , 2021, 13, 11904.	1.6	7
34	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
35	O-acetylserine(thio)lyase (OAS-TL) molecular expression in <i>Pancreatum maritimum</i> L. (Amaryllidaceae) under salt stress. <i>Planta</i> , 2018, 247, 773-777.	1.6	6
36	Different behaviour between autotrophic and heterotrophic <i>Galdieria sulphuraria</i> (Rhodophyta) cells to nitrogen starvation and restoration. Impact on pigment and free amino acid contents. <i>International Journal of Plant Biology</i> , 2020, 11, .	1.1	6

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37	Antioxidant response to heavy metal pollution of Regi Lagni freshwater in <i>Conocephalum conicum</i> L. (Dum.). <i>Ecotoxicology and Environmental Safety</i> , 2022, 234, 113365.	2.9	6
38	Cysteine synthesis in <i>Scorpiurum circinatum</i> as a suitable biomarker in air pollution monitoring. <i>International Journal of Environment and Health</i> , 2011, 5, 93.	0.3	5
39	Sulfur Starvation in Extremophilic Microalga <i>Galdieria sulphuraria</i> : Can Glutathione Contribute to Stress Tolerance?. <i>Plants</i> , 2022, 11, 481.	1.6	4
40	UV-C Irradiation as a Tool to Reduce Biofilm Growth on Pompeii Wall Paintings. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8392.	1.2	3
41	Mycorrhized Wheat Plants and Nitrogen Assimilation in Coexistence and Antagonism with Spontaneous Colonization of Pathogenic and Saprophytic Fungi in a Soil of Low Fertility. <i>Plants</i> , 2022, 11, 924.	1.6	3
42	<i>Galdieria sulphuraria</i> as a Possible Source of Food Colorant. <i>Journal of Nutritional Ecology and Food Research</i> , 2016, 3, 67-70.	0.1	2
43	Extraction and Activity of O-acetylserine(thiol)lyase (OASTL) from Microalga <i>Chlorella sorokiniana</i> . <i>Bio-protocol</i> , 2017, 7, e2342.	0.2	1
44	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
45	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
46	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