

# Nicoletta La Rocca

## List of Publications by Year in descending order

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79  
papers

2,689  
citations

172457

29  
h-index

189892

50  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4078  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Response of <i>Nannochloropsis gaditana</i> to Nitrogen Starvation Includes <i>De Novo</i> Biosynthesis of Triacylglycerols, a Decrease of Chloroplast Galactolipids, and Reorganization of the Photosynthetic Apparatus. <i>Eukaryotic Cell</i> , 2013, 12, 665-676.	3.4	301
2	Catalase Takes Part in Rat Liver Mitochondria Oxidative Stress Defense. <i>Journal of Biological Chemistry</i> , 2007, 282, 24407-24415.	3.4	180
3	Tradeoffs between leaf hydraulic capacity and drought vulnerability: morphoanatomical bases, carbon costs and ecological consequences. <i>New Phytologist</i> , 2012, 196, 788-798.	7.3	161
4	Morphogenetic, ultrastructural and physiological damages suffered by submerged leaves of <i>Elodea canadensis</i> exposed to cadmium. <i>Plant Science</i> , 2005, 168, 329-338.	3.6	141
5	Evidence for PSII donor-side damage and photoinhibition induced by cadmium treatment on rice ( <i>Oryza</i> ) Tj ETQq1 1,0.784314 rgBT /Ov	3.8	128
6	Metal accumulation and damage in rice (cv. Vialone nano) seedlings exposed to cadmium. <i>Environmental and Experimental Botany</i> , 2008, 62, 267-278.	4.2	112
7	Characterization and location of Src-dependent tyrosine phosphorylation in rat brain mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2002, 1589, 181-195.	4.1	97
8	Amitrole treatment of etiolated barley seedlings leads to deregulation of tetrapyrrole synthesis and to reduced expression of Lhc and RbcS genes. <i>Planta</i> , 2001, 213, 101-108.	3.2	86
9	Resurrection Plants: The Puzzle of Surviving Extreme Vegetative Desiccation. <i>Critical Reviews in Plant Sciences</i> , 2005, 24, 209-225.	5.7	82
10	Localization of ascorbic acid, ascorbic acid oxidase, and glutathione in roots of <i>Cucurbita maxima</i> L.. <i>Journal of Experimental Botany</i> , 2004, 55, 2589-2597.	4.8	70
11	Thylakoid potassium channel is required for efficient photosynthesis in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11043-11048.	7.1	64
12	Responses of the Antarctic microalga <i>Koliella antarctica</i> (Trebouxiophyceae, Chlorophyta) to cadmium contamination. <i>Photosynthetica</i> , 2009, 47, 471-479.	1.7	60
13	Gamma-glutamyl transferase in the cell wall participates in extracellular glutathione salvage from the root apoplast. <i>New Phytologist</i> , 2009, 181, 115-126.	7.3	58
14	Modulation of mitochondrial K <sup>+</sup> permeability and reactive oxygen species production by the p13 protein of human T-cell leukemia virus type 1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 947-954.	1.0	43
15	Effects of UV-B radiation on antioxidant parameters of iron-deficient barley plants. <i>Environmental and Experimental Botany</i> , 2008, 63, 71-79.	4.2	42
16	<i>Chodatodesmus australis</i> sp. nov. (Scenedesmaceae, Chlorophyta) from Antarctica, with the emended description of the genus <i>Chodatodesmus</i> , and circumscription of <i>Flechtneria rotunda</i> gen. et sp. nov.. <i>Journal of Phycology</i> , 2015, 51, 1172-1188.	2.3	42
17	Structural and functional features of the leaves of <i>Ranunculus trichophyllus</i> Chaix., a freshwater submerged macrophyte. <i>Plant, Cell and Environment</i> , 1999, 22, 205-212.	5.7	41
18	<i>Pyramimonas australis</i> sp. nov. (Prasinophyceae, Chlorophyta) from Antarctica: fine structure and molecular phylogeny. <i>European Journal of Phycology</i> , 2002, 37, 103-114.	2.0	40

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19	Luxury uptake of phosphorus in <i>Nannochloropsis salina</i> : Effect of P concentration and light on P uptake in batch and continuous cultures. <i>Biochemical Engineering Journal</i> , 2018, 134, 69-79.	3.6	40
20	Mitochondria Affect Photosynthetic Electron Transport and Photosensitivity in a Green Alga. <i>Plant Physiology</i> , 2018, 176, 2305-2314.	4.8	39
21	Influence of light and temperature on growth and high-value molecules productivity from <i>Cyanobacterium aponinum</i> . <i>Journal of Applied Phycology</i> , 2017, 29, 1781-1790.	2.8	35
22	Anti-Inflammatory Activity of Exopolysaccharides from <i>Phormidium</i> sp. ETS05, the Most Abundant Cyanobacterium of the Therapeutic Euganean Thermal Muds, Using the Zebrafish Model. <i>Biomolecules</i> , 2020, 10, 582.	4.0	35
23	Photoacclimation of photosynthesis in the Eustigmatophycean <i>Nannochloropsis gaditana</i> . <i>Photosynthesis Research</i> , 2016, 129, 291-305.	2.9	34
24	Polyphasic characterization of a thermo-tolerant filamentous cyanobacterium isolated from the Euganean thermal muds (Padua, Italy). <i>European Journal of Phycology</i> , 2010, 45, 143-154.	2.0	33
25	Structural and functional alterations induced by two sulfonamide antibiotics on barley plants. <i>Plant Physiology and Biochemistry</i> , 2013, 67, 55-62.	5.8	33
26	<i>Pseudopleurochloris antarcticagen. et sp. nov.</i> , a new coccoid xanthophycean from pack-ice of Wood Bay (Ross Sea, Antarctica): ultrastructure, pigments and 18S rRNA gene sequence. <i>European Journal of Phycology</i> , 1999, 34, 149-159.	2.0	32
27	Grp94 is Tyr-phosphorylated by Fyn in the lumen of the endoplasmic reticulum and translocates to Golgi in differentiating myoblasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 239-252.	4.1	31
28	Mitochondria Change Dynamics and Morphology during Grapevine Leaf Senescence. <i>PLoS ONE</i> , 2014, 9, e102012.	2.5	31
29	Inhibition of lycopene cyclase results in accumulation of chlorophyll precursors. <i>Planta</i> , 2007, 225, 1019-1029.	3.2	30
30	A Novel Potassium Channel in Photosynthetic Cyanobacteria. <i>PLoS ONE</i> , 2010, 5, e10118.	2.5	30
31	Polyphasic approach and typification of selected <i>Phormidium</i> strains (Cyanobacteria). <i>Cladistics</i> , 2012, 28, 357-374.	3.3	30
32	<i>Cyanobacterium aponinum</i> , a new Cyanoprokaryote from the microbial mat of Euganean thermal springs (Padua, Italy). <i>Algological Studies (Stuttgart, Germany: 2007)</i> , 2007, 123, 1-15.	0.4	29
33	Accumulation and Effects of Sulfadimethoxine in <i>Salix Fragilis</i> L. Plants: A Preliminary Study to Phytoremediation Purposes. <i>International Journal of Phytoremediation</i> , 2012, 14, 388-402.	3.1	29
34	Photosynthesis in extreme environments: responses to different light regimes in the Antarctic alga <i>Koliella antarctica</i> . <i>Physiologia Plantarum</i> , 2015, 153, 654-667.	5.2	29
35	Chloroplast ultrastructure and thylakoid polypeptide composition are affected by different salt concentrations in the halophytic plant <i>Arthrocnemum macrostachyum</i> . <i>Journal of Plant Physiology</i> , 2012, 169, 111-116.	3.5	28
36	Responses to bleaching herbicides by leaf chloroplasts of maize plants grown at different temperatures. <i>Journal of Experimental Botany</i> , 2001, 52, 811-820.	4.8	25

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37	Endodermis-like Sheaths in the Submerged Freshwater Macrophyte <i>Ranunculus trichophyllus</i> Chaix. <i>Annals of Botany</i> , 1999, 83, 93-97.	2.9	24
38	Microbiota of the Therapeutic Euganean Thermal Mud with a Focus on the Main Cyanobacteria Species. <i>Microorganisms</i> , 2020, 8, 1590.	3.6	23
39	Bleaching herbicide effects on plastids of dark-grown plants: lipid composition of etioplasts in amitrole and norflurazon-treated barley leaves. <i>Journal of Experimental Botany</i> , 2002, 53, 1857-1865.	4.8	22
40	<i>Erythronium dens-canis</i> L. (Liliaceae): An unusual case of change of leaf mottling. <i>Plant Physiology and Biochemistry</i> , 2014, 74, 108-117.	5.8	22
41	The maize <i>fdl1</i> gene controls organ separation in the embryo and seedling shoot and promotes coleoptile opening. <i>Journal of Experimental Botany</i> , 2015, 66, 5753-5767.	4.8	22
42	The extreme halophyte <i>Salicornia veneta</i> is depleted of the extrinsic PsbQ and PsbP proteins of the oxygen-evolving complex without loss of functional activity. <i>Annals of Botany</i> , 2009, 103, 505-515.	2.9	21
43	Ecological, physiological, and biomolecular surveys on microalgae from Ross Sea (Antarctica). <i>Italian Journal of Zoology</i> , 2000, 67, 147-156.	0.6	20
44	Super-Earths, M Dwarfs, and Photosynthetic Organisms: Habitability in the Lab. <i>Life</i> , 2021, 11, 10.	2.4	20
45	Variegation in <i>Arum italicum</i> leaves. A structural-functional study. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 1392-1398.	5.8	19
46	Title is missing!. <i>Plant Growth Regulation</i> , 1998, 25, 53-61.	3.4	16
47	Ultrastructure, chemical composition and biosynthesis of the cell wall in <i>Koliella antarctica</i> (Klebsormidiales, Chlorophyta). <i>European Journal of Phycology</i> , 2000, 35, 331-337.	2.0	16
48	Early degradation of photosynthetic membranes in carob and sunflower cotyledons. <i>Physiologia Plantarum</i> , 1996, 96, 513-518.	5.2	12
49	Plastid photodamage and Cab gene expression in barley leaves. <i>Physiologia Plantarum</i> , 2000, 109, 51-57.	5.2	11
50	The Italian National Project of Astrobiology "Life in Space" Origin, Presence, Persistence of Life in Space, from Molecules to Extremophiles. <i>Astrobiology</i> , 2020, 20, 580-582.	3.0	10
51	WHIRLY2 plays a key role in mitochondria morphology, dynamics, and functionality in <i>Arabidopsis thaliana</i> . <i>Plant Direct</i> , 2020, 4, e00229.	1.9	10
52	Cab gene expression in bleached leaves of carotenoid-deficient maize. <i>Photosynthesis Research</i> , 2000, 64, 119-126.	2.9	9
53	Impaired carotenogenesis can affect organization and functionality of etioplast membranes. <i>Physiologia Plantarum</i> , 2004, 122, 123-132.	5.2	9
54	Identification of a NaCl-induced ascorbate oxidase activity in <i>Chaetomorpha linum</i> suggests a novel mechanism of adaptation to increased salinity. <i>Environmental and Experimental Botany</i> , 2010, 69, 63-67.	4.2	9

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55	<i>Conferva duplisecta</i> Pollini: rediscovery in Euganean Thermal Springs (Italy) and new assignment to the <i>Oscillatoria</i> genus. <i>Caryologia</i> , 2007, 60, 133-136.	0.3	8
56	A Rapid and Efficient Method to Obtain Photosynthetic Cell Suspension Cultures of <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1444.	3.6	8
57	In vivo anti-inflammatory and antioxidant effects of microbial polysaccharides extracted from Euganean therapeutic muds. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1710-1719.	7.5	7
58	A New Remote Sensing-Based System for the Monitoring and Analysis of Growth and Gas Exchange Rates of Photosynthetic Microorganisms Under Simulated Non-Terrestrial Conditions. <i>Frontiers in Plant Science</i> , 2020, 11, 182.	3.6	6
59	Identification and Characterization of D1 and D2 Protein Breakdown Fragments in Cotyledon Thylakoids from <i>Ceratonia siliqua</i> L.. <i>Journal of Plant Physiology</i> , 1995, 147, 168-174.	3.5	5
60	Thylakoid dismantling of damaged unfunctional chloroplasts modulates the Cab and RbcS gene expression in wheat leaves. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2004, 73, 159-166.	3.8	5
61	Acclimation of photosynthetic apparatus in the mesophilic red alga <i>Dixoniella giordanoi</i> . <i>Physiologia Plantarum</i> , 2021, 173, 805-817.	5.2	5
62	Developmental and Photosynthetic Characteristics of a Photoautotrophic <i>Chrysanthemum</i> Culture. <i>Photosynthetica</i> , 1999, 37, 53-59.	1.7	4
63	Ultrastructural and cytochemical study of <i>Plocamium cartilagineum</i> (plocamiales, rhodophyta) from Ross sea (antarctica). <i>New Zealand Journal of Botany</i> , 2003, 41, 359-371.	1.1	3
64	The an1-4736 mutation of anther ear1 in maize alters scotomorphogenesis and the light response. <i>Plant Science</i> , 2007, 172, 172-180.	3.6	3
65	Control software for the Multi-Channel Led starlight simulator. , 2018, , .		3
66	Survey on a microalga collected from an Edmonson Point pond (Victoria Land, Antarctica). <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1996, 130, 960-962.	0.0	2
67	A viviparous mutant of maize exhibiting permanent water stress symptoms. <i>Plant Growth Regulation</i> , 2011, 64, 99-108.	3.4	2
68	Ultrastructural Aspects of Photoautotrophic <i>Chrysanthemum</i> Culture. , 1998, , 4175-4178.		2
69	Phylogenetic, morphological and biochemical studies on <i>Thermospirulina andreolii</i> gen. & sp. nov. (Cyanophyta) from the Euganean Thermal District (Italy). <i>Phycologia</i> , 2021, 60, 487-496.	1.4	2
70	Regolazione Della Crescita E Dello Sviluppo. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1994, 128, 641-678.	0.0	1
71	Ultrastructure, chemical composition and biosynthesis of the cell wall in <i>Koliella antarctica</i> (Klebsormidiales, Chlorophyta). <i>European Journal of Phycology</i> , 2000, 35, 331-337.	2.0	1
72	<i>Pseudopleurochloris antarctica</i> gen. et sp. nov., a new coccoid xanthophycean from pack-ice of Wood Bay (Ross Sea, Antarctica): ultrastructure, pigments and 18S rRNA gene sequence. <i>European Journal of Phycology</i> , 1999, 34, 149-159.	2.0	1

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73	Photosynthetic Apparatus in Cyanobacteria and Microalgae. Books in Soils, Plants, and the Environment, 2016, , 349-367.	0.1	1
74	Seed Features and Reserve Utilization in Ceratonia Siliqua L. (Leguminosae). Giornale Botanico Italiano (Florence, Italy: 1962), 1994, 128, 226-226.	0.0	0
75	Enzymes of Ammonia Assimilation, Photosynthesis, and Respiration in Alfalfa Leaves of Different Ages. Biologia Plantarum, 1999, 42, 371-378.	1.9	0
76	Respiratory activity of the cryophilic alga <i>Chlorella saccharophila</i> at different temperatures. Caryologia, 2007, 60, 111-114.	0.3	0
77	Excess Light and Limited Carbon: Two Problems with Which Cyanobacteria and Microalgae Cope. Books in Soils, Plants, and the Environment, 2016, , 369-396.	0.1	0
78	Photosynthetic Apparatus in Cyanobacteria and Microalgae. , 2018, , 349-367.		0
79	Excess Light and Limited Carbon Two Problems with Which Cyanobacteria and Microalgae Cope. , 2018, , 369-396.		0