

# Antonino Pollio

## List of Publications by Year in descending order

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81  
papers

3,869  
citations

159585

30  
h-index

128289

60  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5140  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecotoxicological impact of pharmaceuticals found in treated wastewaters: study of carbamazepine, clofibrac acid, and diclofenac. <i>Ecotoxicology and Environmental Safety</i> , 2003, 55, 359-370.	6.0	663
2	Carbamazepine in water: persistence in the environment, ozonation treatment and preliminary assessment on algal toxicity. <i>Water Research</i> , 2002, 36, 2869-2877.	11.3	259
3	Plant Polyphenols and Their Anti-Cariogenic Properties: A Review. <i>Molecules</i> , 2011, 16, 1486-1507.	3.8	244
4	Current Bottlenecks and Challenges of the Microalgal Biorefinery. <i>Trends in Biotechnology</i> , 2019, 37, 242-252.	9.3	174
5	Hidden biodiversity of the extremophilic Cyanidiales red algae. <i>Molecular Ecology</i> , 2004, 13, 1827-1838.	3.9	167
6	Anti-cariogenic effects of polyphenols from plant stimulant beverages (cocoa, coffee, tea). <i>FÄ-toterapÄ-Äç</i> , 2009, 80, 255-262.	2.2	160
7	Lincomycin solar photodegradation, algal toxicity and removal from wastewaters by means of ozonation. <i>Water Research</i> , 2006, 40, 630-638.	11.3	144
8	Microalgae as human food: chemical and nutritional characteristics of the thermo-acidophilic microalga <i>Galdieria sulphuraria</i> . <i>Food and Function</i> , 2013, 4, 144-152.	4.6	120
9	Plants species in the folk medicine of Montecorvino Rovella (inland Campania, Italy). <i>Journal of Ethnopharmacology</i> , 2007, 109, 295-303.	4.1	95
10	Is <i>Stevia rebaudiana</i> Bertoni a Non Cariogenic Sweetener? A Review. <i>Molecules</i> , 2016, 21, 38.	3.8	74
11	Application of methods for assessing the geno- and cytotoxicity of Triclosan to <i>C. ehrenbergii</i> . <i>Journal of Hazardous Materials</i> , 2005, 122, 227-232.	12.4	73
12	Fatty Acids Released by <i>Chlorella vulgaris</i> and Their Role in Interference with <i>Pseudokirchneriella subcapitata</i> : Experiments and Modelling. <i>Journal of Chemical Ecology</i> , 2010, 36, 339-349.	1.8	69
13	Genetic engineering of <i>Synechocystis</i> sp. PCC6803 for poly- $\beta$ -hydroxybutyrate overproduction. <i>Algal Research</i> , 2017, 25, 117-127.	4.6	68
14	The Name of <i>Cannabis</i> : A Short Guide for Nonbotanists. <i>Cannabis and Cannabinoid Research</i> , 2016, 1, 234-238.	2.9	59
15	Effect of combined physico-chemical processes on the phytotoxicity of olive mill wastewaters. <i>Water Research</i> , 2008, 42, 1684-1692.	11.3	51
16	Identification of an industrial microalgal strain for starch production in biorefinery context: The effect of nitrogen and carbon concentration on starch accumulation. <i>New Biotechnology</i> , 2018, 41, 46-54.	4.4	51
17	Allelochemical activity of phenylpropanes from <i>Acorus gramineus</i> . <i>Phytochemistry</i> , 1989, 28, 2319-2321.	2.9	50
18	Phylogenetic relationships and taxonomic position of <i>Chlorella</i> -like isolates from low pH environments (pH < 3.0). <i>BMC Evolutionary Biology</i> , 2002, 2, 13.	3.2	48

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19	Industrial Production of Poly- $\beta$ -hydroxybutyrate from CO <sub>2</sub> : Can Cyanobacteria Meet this Challenge? Processes, 2020, 8, 323.	2.8	48
20	Oxidation of 2,4-dichlorophenol and 3,4-dichlorophenol by means of Fe(III)-homogeneous photocatalysis and algal toxicity assessment of the treated solutions. Water Research, 2011, 45, 2038-2048.	11.3	46
21	A survey of the algal flora of anthropogenic caves of Campi Flegrei (Naples, Italy) archeological district. Journal of Cave and Karst Studies, 2012, 74, 243-250.	0.6	43
22	Progesterone bioconversion by microalgal cultures. Phytochemistry, 1994, 37, 1269-1272.	2.9	39
23	Determination of the <i>In Vitro</i> and <i>In Vivo</i> Antimicrobial Activity on Salivary Streptococci and Lactobacilli and Chemical Characterisation of the Phenolic Content of a <i>Plantago lanceolata</i> Infusion. BioMed Research International, 2015, 2015, 1-8.	1.9	39
24	Action of antialgal compounds from <i>Juncus effusus</i> L. on <i>Selenastrum capricornutum</i> . Journal of Chemical Ecology, 1996, 22, 587-603.	1.8	37
25	Poly- $\beta$ -hydroxybutyrate (PHB) production by <i>Synechocystis</i> PCC6803 from CO <sub>2</sub> : Model development. Algal Research, 2018, 29, 49-60.	4.6	37
26	Different characteristics of C-phycoyanin (C-PC) in two strains of the extremophilic <i>Galdieria phlegrea</i> . Algal Research, 2018, 31, 406-412.	4.6	36
27	Cyanidiophyceae in Iceland: plastid <i>rbcL</i> gene elucidates origin and dispersal of extremophilic <i>Galdieria sulphuraria</i> and <i>G. maxima</i> (Galdieriaceae, Rhodophyta). Phycologia, 2014, 53, 542-551.	1.4	35
28	Engineered tobacco and microalgae secreting the fungal laccase POXA1b reduce phenol content in olive oil mill wastewater. Enzyme and Microbial Technology, 2011, 49, 540-546.	3.2	34
29	<i>Chlamydomonas pitschmannii</i> Ettl, a Little Known Species from Thermoacidic Environments. Protist, 2005, 156, 287-302.	1.5	32
30	Effects of photobioreactors design and operating conditions on <i>Stichococcus bacillaris</i> biomass and biodiesel production. Biochemical Engineering Journal, 2013, 74, 8-14.	3.6	31
31	Screening and Scoring of Antimicrobial and Biological Activities of Italian Vulnerary Plants against Major Oral Pathogenic Bacteria. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-10.	1.2	31
32	Effects of the potential allelochemical $\beta$ -asarone on growth, physiology and ultrastructure of two unicellular green algae. Journal of Applied Phycology, 1993, 5, 395-403.	2.8	29
33	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.	4.0	29
34	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.	3.1	29
35	N-methyl-p-aminophenol (metol) ozonation in aqueous solution: kinetics, mechanism and toxicological characterization of ozonized samples. Water Research, 2000, 34, 4419-4429.	11.3	28
36	Extending the temporal context of ethnobotanical databases: the case study of the Campania region (southern Italy). Journal of Ethnobiology and Ethnomedicine, 2009, 5, 7.	2.6	28

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37	A Review of Microalgal Biofilm Technologies: Definition, Applications, Settings and Analysis. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	2.7	28
38	Structure-activity relationships of phenylpropanoids as growth inhibitors of the green alga <i>Selenastrum capricornutum</i> . <i>Phytochemistry</i> , 1992, 31, 4119-4123.	2.9	27
39	Species Composition of Cyanidiales Assemblages in Pisciarelli (Campi Flegrei, Italy) and Description of <i>Galdieria Phlegrea</i> SP. NOV. Cellular Origin and Life in Extreme Habitats, 2007, , 487-502.	0.3	27
40	Minor Bioactive Dihydrophenanthrenes from <i>Juncus effusus</i> . <i>Journal of Natural Products</i> , 1997, 60, 1265-1268.	3.0	26
41	Polyphenolic Profile and Targeted Bioactivity of Methanolic Extracts from Mediterranean Ethnomedicinal Plants on Human Cancer Cell Lines. <i>Molecules</i> , 2016, 21, 395.	3.8	25
42	New ultra-flat photobioreactor for intensive microalgal production: The effect of light irradiance. <i>Algal Research</i> , 2018, 34, 134-142.	4.6	24
43	Microalgae Cultivation Systems. , 2020, , 11-29.		24
44	Cyanobacteria and Microalgae as Sources of Functional Foods to Improve Human General and Oral Health. <i>Molecules</i> , 2020, 25, 5164.	3.8	24
45	Biotransformations of progesterone by <i>Chlorella</i> spp.. <i>Phytochemistry</i> , 1996, 42, 685-688.	2.9	21
46	Biotransformation of sinapic acid by the green algae <i>Stichococcus bacillaris</i> 155LTAP and <i>Ankistrodesmus braunii</i> C202.7a. <i>Tetrahedron Letters</i> , 2003, 44, 2779-2780.	1.4	21
47	Alien domains shaped the modular structure of plant NLR proteins. <i>Genome Biology and Evolution</i> , 2019, 11, 3466-3477.	2.5	21
48	A thermophilic C-phycocyanin with unprecedented biophysical and biochemical properties. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 38-51.	7.5	21
49	Cryptic dispersal of Cyanidiophytina (Rhodophyta) in non-acidic environments from Turkey. <i>Extremophiles</i> , 2018, 22, 713-723.	2.3	20
50	Green Compressed Fluid Technologies To Extract Antioxidants and Lipids from <i>Galdieria phlegrea</i> in a Biorefinery Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2939-2947.	6.7	20
51	Biotransformation of 5 $\alpha$ -androstane-3,17-dione by microalgal cultures.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1991, 1, 673-674.	2.2	19
52	Autotrophic starch production by <i>Chlamydomonas</i> species. <i>Journal of Applied Phycology</i> , 2017, 29, 105-114.	2.8	18
53	A cascade extraction of active phycocyanin and fatty acids from <i>Galdieria phlegrea</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9455-9464.	3.6	18
54	Autotrophic and Heterotrophic Growth Conditions Modify Biomolecule Production in the Microalga <i>Galdieria sulphuraria</i> (Cyanidiophyceae, Rhodophyta). <i>Marine Drugs</i> , 2020, 18, 169.	4.6	18

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55	Useful Plants in Renal Therapy according to Pliny the Elder. <i>American Journal of Nephrology</i> , 1994, 14, 399-411.	3.1	17
56	Bioconversion of 17 $\beta$ -hydroxy-17 $\alpha$ -methyl-androsta-1,4-dien-3-one and androsta-1,4-diene-3,17-dione in cultures of the green alga T76 <i>Scenedesmus quadricauda</i> . <i>Tetrahedron</i> , 1996, 52, 13981-13990.	1.9	17
57	Biotransformation of progesterone by the green alga <i>Chlorella emersonii</i> C211-8h. <i>Phytochemistry</i> , 1996, 41, 1527-1529.	2.9	16
58	Growth and biomass productivity of <i>Scenedesmus vacuolatus</i> on a twin layer system and a comparison with other types of cultivations. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 8321-8329.	3.6	16
59	Biomass and phycobiliprotein production of <i>Galdieria sulphuraria</i> , immobilized on a twin-layer porous substrate photobioreactor. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3109-3119.	3.6	16
60	Medicinal Plants for the Treatment of Urogenital Tract Pathologies According to Dioscorides&rsquo; &lt;i>De Materia Medica&lt;/i>. <i>American Journal of Nephrology</i> , 1997, 17, 241-247.	3.1	15
61	Acid Tolerant and Acidophilic Microalgae: An Underexplored World of Biotechnological Opportunities. <i>Frontiers in Microbiology</i> , 2022, 13, 820907.	3.5	13
62	Nutrient removal from high strength nitrate containing industrial wastewater using <i>Chlorella</i> sp. strain ACUF_802. <i>Annals of Microbiology</i> , 2018, 68, 899-913.	2.6	11
63	Weathering of a Roman Mosaic&rsquo;A Biological and Quantitative Study on In Vitro Colonization of Calcareous Tesserae by Phototrophic Microorganisms. <i>PLoS ONE</i> , 2016, 11, e0164487.	2.5	11
64	Prednisolone biotransformation by the green alga T76 <i>Scenedesmus quadricauda</i> . <i>Tetrahedron</i> , 1997, 53, 8273-8280.	1.9	10
65	Investigation of architecture development and phosphate distribution in <i>Chlorella</i> biofilm by complementary microscopy techniques. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	10
66	Nutrient removal efficiency of green algal strains at high phosphate concentrations. <i>Water Science and Technology</i> , 2019, 80, 1832-1843.	2.5	10
67	The Bactericidal Activity of Protein Extracts from <i>Loranthus europaeus</i> Berries: A Natural Resource of Bioactive Compounds. <i>Antibiotics</i> , 2020, 9, 47.	3.7	10
68	Optimisation of artemisinin and scopoletin extraction from <i>Artemisia annua</i> with a new modern pressurised cyclic solid&rsquo;liquid (PCSL) extraction technique. <i>Phytochemical Analysis</i> , 2019, 30, 564-571.	2.4	9
69	Kinetic characterization of the photosynthetic reaction centres in microalgae by means of fluorescence methodology. <i>Journal of Biotechnology</i> , 2015, 212, 1-10.	3.8	8
70	First evidence of <i>Halomicronema metazoicum</i> (Cyanobacteria) free-living on <i>Posidonia oceanica</i> leaves. <i>PLoS ONE</i> , 2018, 13, e0204954.	2.5	8
71	<i>Cyanidium chilense</i> (Cyanidiophyceae, Rhodophyta) from tuff rocks of the archeological site of Cuma, Italy. <i>Phycological Research</i> , 2019, 67, 311-319.	1.6	8
72	Comparison of <i>Galdieria</i> growth and photosynthetic activity in different culture systems. <i>AMB Express</i> , 2020, 10, 170.	3.0	8

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73	Distribution of Toxigenic Halomicronema spp. in Adjacent Environments on the Island of Ischia: Comparison of Strains from Thermal Waters and Free Living in Posidonia Oceanica Meadows. Toxins, 2019, 11, 99.	3.4	7
74	The diuretic use of Scilla from Dioscorides to the end of the 18th century. Journal of Nephrology, 2004, 17, 342-7.	2.0	7
75	Early colonization stages of fabric carriers by two Chlorella strains. Journal of Applied Phycology, 2020, 32, 3631-3644.	2.8	6
76	A Glimpse at Siderophores Production by Anabaena flos-aquae UTEX 1444. Marine Drugs, 2022, 20, 256.	4.6	5
77	Phenanthrene Dimers: Promising Source of Biologically Active Molecules. Current Topics in Medicinal Chemistry, 2022, 22, 939-956.	2.1	4
78	Switchable Solvent Selective Extraction of Hydrophobic Antioxidants from <i>Synechococcus bigranulatus</i> . ACS Sustainable Chemistry and Engineering, 2021, 9, 13798-13806.	6.7	4
79	Neochloris oleoabundans from nature to industry: a comprehensive review. Reviews in Environmental Science and Biotechnology, 2021, 20, 943-958.	8.1	3
80	LIGHT INTENSITIES MAXIMIZING PHOTOSYNTHESIS AND KINETICS OF PHOTOCHEMICAL STEPS IN <i>Graesiella emersonii</i> UNDER DIFFERENT CULTIVATION STRATEGIES. Environmental Engineering and Management Journal, 2019, 18, 1519-1526.	0.6	2
81	Thermo resistant antioxidants from photoautotrophic microorganisms: screening and characterization. World Journal of Microbiology and Biotechnology, 2021, 37, 215.	3.6	1