

Miguel G Guerrero

List of Publications by Year in descending order

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88
papers

4,871
citations

109321

35
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95266

68
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88
all docs

88
docs citations

88
times ranked

3442
citing authors

#	ARTICLE	IF	CITATIONS
1	Outdoor cultivation of microalgae for carotenoid production: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 1163-1174.	3.6	607
2	Carotenoid content of chlorophycean microalgae: factors determining lutein accumulation in <i>Muriellopsis</i> sp. (Chlorophyta). <i>Journal of Biotechnology</i> , 2000, 76, 51-59.	3.8	284
3	Accumulation of astaxanthin and lutein in <i>Chlorella zofingiensis</i> (Chlorophyta). <i>Applied Microbiology and Biotechnology</i> , 2004, 64, 848-854.	3.6	284
4	Production of <i>Dunaliella salina</i> biomass rich in 9-cis- β -carotene and lutein in a closed tubular photobioreactor. <i>Journal of Biotechnology</i> , 2005, 115, 81-90.	3.8	230
5	Regulation of nitrate reductase levels in the cyanobacteria <i>Anacystis nidulans</i> , <i>Anabaena</i> sp. strain 7119, and <i>Nostoc</i> sp. strain 6719. <i>Journal of Bacteriology</i> , 1981, 145, 175-180.	2.2	199
6	Exopolysaccharide production by the cyanobacterium <i>Anabaena</i> sp. ATCC 33047 in batch and continuous culture. <i>Journal of Biotechnology</i> , 1998, 60, 175-182.	3.8	142
7	Lutein production by <i>Muriellopsis</i> sp. in an outdoor tubular photobioreactor. <i>Journal of Biotechnology</i> , 2001, 85, 289-295.	3.8	134
8	Short-term ammonium inhibition of nitrate utilization by <i>Anacystis nidulans</i> and other cyanobacteria. <i>Archives of Microbiology</i> , 1980, 128, 137-144.	2.2	128
9	Comparative analysis of the outdoor culture of <i>Haematococcus pluvialis</i> in tubular and bubble column photobioreactors. <i>Journal of Biotechnology</i> , 2006, 123, 329-342.	3.8	124
10	Outdoor cultivation of lutein-rich cells of <i>Muriellopsis</i> sp. in open ponds. <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1259-1266.	3.6	124
11	The action of 2-amino-4-(methylphosphinyl)-butanoic acid (phosphinothricin) and its 2-oxo-derivative on the metabolism of cyanobacteria and higher plants. <i>Phytochemistry</i> , 1984, 23, 1-6.	2.9	123
12	BIOCHEMICAL COMPOSITION AND FATTY ACID CONTENT OF FILAMENTOUS NITROGEN-FIXING CYANOBACTERIA. <i>Journal of Phycology</i> , 1998, 34, 812-817.	2.3	123
13	Antioxidant activity of <i>Haematococcus pluvialis</i> cells grown in continuous culture as a function of their carotenoid and fatty acid content. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 1112-1119.	3.6	112
14	Outdoor cultivation of a nitrogen-fixing marine cyanobacterium, <i>Anabaena</i> sp. ATCC 33047. <i>New Biotechnology</i> , 2003, 20, 191-197.	2.7	107
15	Efficient one-step production of astaxanthin by the microalga <i>Haematococcus pluvialis</i> in continuous culture. <i>Biotechnology and Bioengineering</i> , 2005, 91, 808-815.	3.3	101
16	Production of astaxanthin by <i>Haematococcus pluvialis</i> : Taking the one-step system outdoors. <i>Biotechnology and Bioengineering</i> , 2009, 102, 651-657.	3.3	101
17	Photosynthetic nature of nitrate uptake and reduction in the cyanobacterium <i>Anacystis nidulans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 722, 408-416.	1.0	87
18	Conditions for open-air outdoor culture of <i>Dunaliella salina</i> in southern Spain. <i>Journal of Applied Phycology</i> , 2003, 15, 177-184.	2.8	87

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19	Preparation and characterization of a soluble nitrate reductase from <i>Azotobacter chroococcum</i> . <i>Archives of Microbiology</i> , 1973, 91, 287-304.	2.2	77
20	Chemical and rheological properties of an extracellular polysaccharide produced by the cyanobacterium <i>Anabaena</i> sp. ATCC 33047. <i>Biotechnology and Bioengineering</i> , 2000, 67, 283-290.	3.3	75
21	Efficiency assessment of the one-step production of astaxanthin by the microalga <i>Haematococcus pluvialis</i> . <i>Biotechnology and Bioengineering</i> , 2008, 100, 397-402.	3.3	67
22	Regulated nitrate transport in the cyanobacterium <i>Anacystis nidulans</i> . <i>Journal of Bacteriology</i> , 1987, 169, 4376-4378.	2.2	66
23	Nitrate transport in the cyanobacterium <i>Anacystis nidulans</i> R2. Kinetic and energetic aspects. <i>Biochemical Journal</i> , 1992, 282, 639-643.	3.7	61
24	Regulation of nitrate reductase cellular levels in the cyanobacteria <i>Anabaena variabilis</i> and <i>Synechocystis</i> sp.. <i>FEMS Microbiology Letters</i> , 1985, 26, 21-25.	1.8	60
25	Reduced nicotinamide-adenine dinucleotide-nitrite reductase from <i>Azotobacter chroococcum</i> . <i>Biochemical Journal</i> , 1973, 133, 701-708.	3.7	58
26	Characterization of an Alcohol Dehydrogenase from the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803 That Responds to Environmental Stress Conditions via the Hik34-Rre1 Two-Component System. <i>Journal of Bacteriology</i> , 2009, 191, 4383-4391.	2.2	55
27	Factors affecting the production of biomass by a nitrogen-fixing blue-green alga in outdoor culture. <i>Bioresource Technology</i> , 1987, 13, 33-43.	0.3	53
28	NADH- and NAD(P)H-Nitrate Reductases in Rice Seedlings. <i>Plant Physiology</i> , 1976, 58, 292-294.	4.8	50
29	Purification and properties of the NAD(P)H:nitrate reductase of the yeast <i>Rhodotorula glutinis</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977, 482, 272-285.	2.6	49
30	Relationship between a 47-kDa cytoplasmic membrane polypeptide and nitrate transport in <i>Anacystis nidulans</i> . <i>Biochemical and Biophysical Research Communications</i> , 1989, 158, 257-262.	2.1	48
31	Dependence of nitrate utilization upon active CO ₂ fixation in <i>Anacystis nidulans</i> : A regulatory aspect of the interaction between photosynthetic carbon and nitrogen metabolism. <i>Archives of Biochemistry and Biophysics</i> , 1985, 237, 396-401.	3.0	47
32	Nitrogen-fixing cyanobacteria as source of phycobiliprotein pigments. Composition and growth performance of ten filamentous heterocystous strains. <i>Journal of Applied Phycology</i> , 1995, 7, 17-23.	2.8	47
33	Regulatory interaction of photosynthetic nitrate utilization and carbon dioxide fixation in the cyanobacterium <i>Anacystis nidulans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 725, 529-532.	1.0	44
34	Regulation of nitrogenase levels in <i>Anabaena</i> sp. ATCC 33047 and other filamentous cyanobacteria. <i>Archives of Microbiology</i> , 1985, 141, 105-111.	2.2	40
35	Characterization of the nitrate-reducing system of the yeast <i>Torulopsis nitratophila</i> . <i>Plant Science Letters</i> , 1973, 1, 105-113.	1.8	39
36	Regulation of the nitrate reductase level in <i>Anacystis nidulans</i> : Activity decay under nitrogen stress. <i>Archives of Biochemistry and Biophysics</i> , 1984, 234, 454-459.	3.0	32

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37	Purification and properties of NADP-dependent non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase from the green alga <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987, 925, 1-10.	2.4	32
38	Determination of intracellular nitrate. <i>Biochemical Journal</i> , 1989, 259, 545-548.	3.7	31
39	Ca ²⁺ Requirement for Aerobic Nitrogen Fixation by Heterocystous Blue-Green Algae. <i>Plant Physiology</i> , 1990, 92, 886-890.	4.8	29
40	Isolation and characterization of <i>Anacystis nidulans</i> R2 mutants affected in nitrate assimilation: Establishment of two new mutant types. <i>Molecular Genetics and Genomics</i> , 1988, 213, 223-228.	2.4	28
41	Nitrite photoreduction by a cell-free preparation of <i>anacystis nidulans</i> . <i>Plant Science Letters</i> , 1974, 3, 273-278.	1.8	26
42	Involvement of ammonium metabolism in the nitrate inhibition of nitrogen fixation in <i>Anabaena</i> sp. strain ATCC 33047. <i>Archives of Microbiology</i> , 1983, 136, 81-83.	2.2	26
43	Enhancement of phycobiliprotein production in nitrogen-fixing cyanobacteria. <i>Journal of Biotechnology</i> , 1991, 20, 263-270.	3.8	26
44	Sustained Photoproduction of Ammonia from Dinitrogen and Water by the Nitrogen-Fixing Cyanobacterium <i>Anabaena</i> sp. Strain ATCC 33047. <i>Applied and Environmental Microbiology</i> , 1984, 48, 114-118.	3.1	26
45	Shift in carbon flow and stimulation of amino-acid turnover induced by nitrate and ammonium assimilation in <i>Anacystis nidulans</i> . <i>Planta</i> , 1993, 189, 461-467.	3.2	25
46	Microalgae for oil. Assessment of fatty acid productivity in continuous culture by two high-yield strains, <i>Chlorococcum oleofaciens</i> and <i>Pseudokirchneriella subcapitata</i> . <i>Algal Research</i> , 2017, 23, 37-42.	4.6	25
47	Photosynthetic production of ammonia. <i>Experientia</i> , 1982, 38, 53-58.	1.2	24
48	Continuous culture methodology for the screening of microalgae for oil. <i>Journal of Biotechnology</i> , 2015, 195, 103-107.	3.8	24
49	The stereospecificity of nitrate reductase for hydrogen removal from reduced pyridine nucleotides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977, 482, 19-26.	2.6	23
50	Nitrate transport in the cyanobacterium <i>Anacystis nidulans</i> . <i>Physiologia Plantarum</i> , 1993, 89, 582-587.	5.2	23
51	Photoproduction of ammonia from nitrate by <i>Anacystis nidulans</i> cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1982, 679, 323-330.	1.0	22
52	SODIUM-DEPENDENT NITRATE TRANSPORT AND ENERGETICS OF CYANOBACTERIA. <i>Journal of Phycology</i> , 1993, 29, 389-395.	2.3	22
53	New challenges in microalgae biotechnology. <i>European Journal of Protistology</i> , 2016, 55, 95-101.	1.5	22
54	Unveiling the underlying molecular basis of astaxanthin accumulation in <i>Haematococcus</i> through integrative metabolomic-transcriptomic analysis. <i>Bioresource Technology</i> , 2021, 332, 125150.	9.6	22

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55	Regulation of Nitrite Reductase in the Cyanobacterium <i>Anacystis nidulans</i> . <i>Microbiology (United Kingdom)</i> , 1989, 119, 107-114.	1.8	21
56	Nitrogen-Fixing Cyanobacterium with a High Phycoerythrin Content. <i>Applied and Environmental Microbiology</i> , 1989, 55, 758-760.	3.1	21
57	Inhibition of nitrate utilization by amino acids in intact <i>Anacystis nidulans</i> cells. <i>Archives of Microbiology</i> , 1985, 142, 1-5.	2.2	20
58	Modulation of nitrate uptake in <i>Anacystis nidulans</i> by the balance between ammonium assimilation and CO ₂ fixation. <i>Archives of Biochemistry and Biophysics</i> , 1987, 256, 578-584.	3.0	19
59	Assessment of the CO ₂ fixation capacity of <i>Anabaena</i> sp. ATCC 33047 outdoor cultures in vertical flat-panel reactors. <i>Journal of Biotechnology</i> , 2014, 187, 51-55.	3.8	19
60	Photosynthetic Nitrogen Metabolism in High and Low CO ₂ -adapted <i>Scenedesmus</i> . <i>Journal of Experimental Botany</i> , 1985, 36, 1373-1386.	4.8	17
61	Ammonium-sensitive protein kinase activity in plasma membranes of the cyanobacterium <i>Anacystis nidulans</i> . <i>FEBS Letters</i> , 1994, 350, 19-23.	2.8	16
62	Optimization of Conditions for Photoproduction of Ammonia from Nitrate by <i>Anacystis nidulans</i> . <i>Applied and Environmental Microbiology</i> , 1982, 44, 1013-1019.	3.1	16
63	Sustained Photoproduction of Ammonia from Nitrate by <i>Anacystis nidulans</i> . <i>Applied and Environmental Microbiology</i> , 1982, 44, 1020-1025.	3.1	15
64	Mechanism of nitrate and nitrite reduction in cells grown in the dark. <i>Biochemical and Biophysical Research Communications</i> , 1971, 45, 82-89.	2.1	14
65	Photosynthetic Nitrogen Metabolism in High and Low CO ₂ -adapted <i>Scenedesmus</i> . <i>Journal of Experimental Botany</i> , 1985, 36, 1387-1395.	4.8	14
66	Competition between nitrate and nitrite uptake in the cyanobacterium <i>Anacystis nidulans</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 896, 109-112.	2.6	14
67	Mechanism of sodium/nitrate symport in <i>Anacystis nidulans</i> R2. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1187, 250-254.	1.0	14
68	Affinity chromatography of <i>Anacystis nidulans</i> ferredoxin-nitrate reductase and NADP reductase on reduced ferredoxin-sepharose. <i>Analytical Biochemistry</i> , 1978, 90, 408-412.	2.4	13
69	Depression of carbon flow to the glycogen pool induced by nitrogen assimilation in intact cells of <i>Anacystis nidulans</i> . <i>Physiologia Plantarum</i> , 1992, 86, 360-364.	5.2	13
70	Stereospecificity of hydrogen removal from pyridine nucleotide: The reactions catalyzed by nitrate reductase and by xanthine oxidase. <i>FEBS Letters</i> , 1975, 51, 284-286.	2.8	12
71	Factors affecting the photoproduction of ammonia from dinitrogen and water by the cyanobacterium <i>Anabaena</i> sp. strain ATCC 33047. <i>Biotechnology and Bioengineering</i> , 1987, 29, 566-571.	3.3	12
72	Molybdenum and iron as functional constituents of the enzymes of the nitrate-reducing system of <i>Azotobacter chroococcum</i> . <i>Archives of Microbiology</i> , 1975, 102, 91-94.	2.2	10

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73	Sequential transduction of light into redox and acid-base energy in photosynthesis. <i>Bioelectrochemistry</i> , 1990, 23, 105-128.	1.0	9
74	Changes in the Pigment content of <i>Anabaena variabilis</i> Cells in Outdoor Culture. <i>Journal of Plant Physiology</i> , 1991, 137, 441-445.	3.5	9
75	Use of a mutant strain of the cyanobacterium <i>Synechococcus</i> R2 for the determination of nitrate. <i>Analytical Biochemistry</i> , 1991, 198, 200-202.	2.4	9
76	Cadmium removal by <i>Anabaena</i> sp. ATCC 33047 immobilized in polyurethane foam. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1793-1798.	3.5	9
77	Production of ammonium dependent on basic L-amino acids by <i>Anacystis nidulans</i> . <i>Archives of Microbiology</i> , 1982, 131, 91-94.	2.2	8
78	Mutational analysis of Asp51 of <i>Anabaena azolla</i> glutamine synthetase. <i>FEBS Journal</i> , 1999, 266, 1202-1209.	0.2	8
79	Regulation of Nitrate Utilization by CO ₂ Fixation Products in the Cyanobacterium <i>Anacystis nidulans</i> . , 1984, , 715-718.		3
80	Photosynthetic production of ammonia. , 1982, , 59-64.		3
81	Determination of nitrate with nitrate reductase from spinach leaves. <i>Zeitschrift für Pflanzenphysiologie</i> , 1972, 66, 290-293.	1.4	2
82	Dynamic Flux Balance Analysis in Cyanobacteria for Ethanol Production with Simultaneous Optimization Approaches. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1165-1170.	0.5	2
83	The Photosynthetic Assimilation of Nitrate and Its Interactions with CO ₂ Fixation. , 1989, , 393-411.		2
84	Depression of carbon flow to the glycogen pool induced by nitrogen assimilation in intact cells of <i>Anacystis nidulans</i> . <i>Physiologia Plantarum</i> , 1992, 86, 360-364.	5.2	2
85	Nitrate transport in the cyanobacterium <i>Anacystis nidulans</i> . <i>Physiologia Plantarum</i> , 1993, 89, 582-587.	5.2	2
86	Sequential transduction of light into redox and acid-base energy in photosynthesis. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 298, 105-128.	0.1	1
87	Photoautotrophic Production of Astaxanthin by the Microalga <i>Haematococcus pluvialis</i> . , 2010, , 247-258.		1
88	Societ� Italiana di Fisiologia Vegetale 24� Congresso Sociale. <i>Giornale Botanico Italiano (Florence)</i> , Tj ETQq0 0 0 ggBT /Overlock 10 Tf		