Ana Otero

List of Publications by Year in descending order

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99 papers	3,531 citations	126907 33 h-index	155660 55 g-index
100 all docs	100 docs citations	100 times ranked	3508 citing authors

#	Article	IF	Citations
1	Quorum sensing systems as a new target to prevent biofilmâ€related oral diseases. Oral Diseases, 2022, 28, 307-313.	3.0	15
2	Quorum quenching and anti-biofilm activities of halotolerant Bacillus strains isolated in different environments in Algeria. Journal of Applied Microbiology, 2022, 132, 1825-1839.	3.1	6
3	Diel biochemical and photosynthetic monitorization of Skeletonema costatum and Phaeodactylum tricornutum grown in outdoor pilot-scale flat panel photobioreactors. Journal of Biotechnology, 2022, 343, 110-119.	3.8	7
4	Mushroomâ€shaped structures formed in Acinetobacter baumannii biofilms grown in a roller bioreactor are associated with quorum sensingâ€“dependent Csuâ€pilus assembly. Environmental Microbiology, 2022, 24, 4329-4339.	3.8	12
5	Effects of LED lighting on Nannochloropsis oceanica grown in outdoor raceway ponds. Algal Research, 2022, 64, 102685.	4.6	5
6	Anti-biofilm multi drug-loaded 3D printed hearing aids. Materials Science and Engineering C, 2021, 119, 111606.	7.3	59
7	Biochemical characterization of Nostoc sp. exopolysaccharides and evaluation of potential use in wound healing. Carbohydrate Polymers, 2021, 254, 117303.	10.2	47
8	Use of Quorum Sensing Inhibition Strategies to Control Microfouling. Marine Drugs, 2021, 19, 74.	4.6	5
9	Biotechnological applications of Bacillus licheniformis. Critical Reviews in Biotechnology, 2021, 41, 609-627.	9.0	67
10	Development of a reversible regulatory system for gene expression in the cyanobacterium Synechocystis sp. PCC 6803 by quorum-sensing machinery from marine bacteria. Journal of Applied Phycology, 2021, 33, 1651-1662.	2.8	5
11	Resveratrol-Loaded Hydrogel Contact Lenses with Antioxidant and Antibiofilm Performance. Pharmaceutics, 2021, 13, 532.	4.5	21
12	Growth and bioactivity of two chlorophyte (Chlorella and Scenedesmus) strains co-cultured outdoors in two different thin-layer units using municipal wastewater as a nutrient source. Algal Research, 2021, 56, 102299.	4.6	21
13	In situ monitoring of chlorophyll a fluorescence in Nannochloropsis oceanica cultures to assess photochemical changes and the onset of lipid accumulation during nitrogen deprivation. Biotechnology and Bioengineering, 2021, 118, 4375-4388.	3.3	4
14	Evaluation of the Anti-fouling Efficacy of Bacillus licheniformis Extracts Under Environmental and Natural Conditions. Frontiers in Marine Science, 2021, 8, .	2.5	3
15	Application of microalgae and microalgal bioactive compounds in skin regeneration. Algal Research, 2021, 58, 102395.	4.6	27
16	Enriching Rotifers with â€œPremiumâ€•Microalgae: Rhodomonas lens. Marine Biotechnology, 2020, 22, 118-129.	2.4	7
17	Quorum Sensing as a Target for Controlling Surface Associated Motility and Biofilm Formation in Acinetobacter baumannii ATCCÂ® 17978TM. Frontiers in Microbiology, 2020, 11, 565548.	3.5	37
18	Haematococcus pluvialis bioprocess optimization: Effect of light quality, temperature and irradiance on growth, pigment content and photosynthetic response. Algal Research, 2020, 51, 102027.	4.6	43

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19	Matrix solid-phase dispersion as a greener alternative to obtain bioactive extracts from Haematococcus pluvialis. Characterization by UHPLC-QToF. RSC Advances, 2020, 10, 27995-28006.	3.6	8
20	Quorum Sensing inAcinetobacterVirulence. ACS Symposium Series, 2020, , 115-137.	0.5	2
21	Nutrient removal from the centrate of anaerobic digestion of high ammonium industrial wastewater by a semi-continuous culture of Arthrospira sp. and Nostoc sp. PCC 7413. Journal of Applied Phycology, 2020, 32, 2785-2794.	2.8	16
22	Acyl homoserine lactone-mediated quorum sensing in the oral cavity: a paradigm revisited. Scientific Reports, 2020, 10, 9800.	3.3	34
23	Short-Chain N -Acylhomoserine Lactone Quorum-Sensing Molecules Promote Periodontal Pathogens in In Vitro Oral Biofilms. Applied and Environmental Microbiology, 2020, 86, .	3.1	26
24	Breaking Bad. , 2020, , 175-185.		2
25	Effect of light quality on carotenogenic and non-carotenogenic species of the genus Dunaliella under nitrogen deficiency. Algal Research, 2019, 44, 101725.	4.6	25
26	The effect of bacteria on planula-larvae settlement and metamorphosis in the octocoral Rhytisma fulvum fulvum. PLoS ONE, 2019, 14, e0223214.	2.5	9
27	Lipid accumulation in selected Tetraselmis strains. Journal of Applied Phycology, 2019, 31, 2845-2853.	2.8	6
28	Does Haematococcus pluvialis need to sleep?. Algal Research, 2019, 44, 101722.	4.6	16
29	Immobilization of antimicrobial and anti-quorum sensing enzymes onto GMA-grafted poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.2	23
30	Title is missing!. , 2019, 14, e0223214.		0
31	Title is missing!. , 2019, 14, e0223214.		0
32	Title is missing!. , 2019, 14, e0223214.		0
33	Title is missing!. , 2019, 14, e0223214.		0
34	Inhibition ofSteptococcus mutansbiofilm formation by extracts ofTenacibaculumsp. 20J, a bacterium with wide-spectrum quorum quenching activity. Journal of Oral Microbiology, 2018, 10, 1429788.	2.7	36
35	Effect of nutritional status and concentration of Nannochloropsis gaditana as enrichment diet for the marine rotifer Brachionus sp. Aquaculture, 2018, 491, 351-357.	3.5	23
36	High Prevalence of Quorum-Sensing and Quorum-Quenching Activity among Cultivable Bacteria and Metagenomic Sequences in the Mediterranean Sea. Genes, 2018, 9, 100.	2.4	37

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37	Multiple Quorum Quenching Enzymes Are Active in the Nosocomial Pathogen Acinetobacter baumannii ATCC17978. Frontiers in Cellular and Infection Microbiology, 2018, 8, 310.	3.9	55
38	Valorisation of aquaculture effluents with microalgae: The Integrated Multi-Trophic Aquaculture concept. Algal Research, 2017, 24, 416-424.	4.6	62
39	Quorum sensing network in clinical strains of A. baumannii: AidA is a new quorum quenching enzyme. PLoS ONE, 2017, 12, e0174454.	2.5	54
40	Nannochloropsis limnetica: A freshwater microalga for marine aquaculture. Aquaculture, 2016, 459, 124-130.	3.5	29
41	Silencing Bacterial Communication Through Enzymatic Quorum-Sensing Inhibition. , 2015, , 219-236.		20
42	Biofilm Formation and Quorum-Sensing-Molecule Production by Clinical Isolates of Serratia liquefaciens. Applied and Environmental Microbiology, 2015, 81, 3306-3315.	3.1	45
43	Aii20J, a wide-spectrum thermostable N-acylhomoserine lactonase from the marine bacterium Tenacibaculum sp. 20J, can quench AHL-mediated acid resistance in Escherichia coli. Applied Microbiology and Biotechnology, 2015, 99, 9523-9539.	3.6	70
44	In vitro quenching of fish pathogen Edwardsiella tarda AHL production using marine bacterium Tenacibaculum sp. strain 20J cell extracts. Diseases of Aquatic Organisms, 2014, 108, 217-225.	1.0	48
45	N-acylhomoserine lactone-degrading bacteria isolated from hatchery bivalve larval cultures. Microbiological Research, 2013, 168, 547-554.	5.3	45
46	Effect of Mg, Si, and Sr on growth and antioxidant activity of the marine microalga Tetraselmis suecica. Journal of Applied Phycology, 2012, 24, 1229-1236.	2.8	27
47	Determination of Whether Quorum Quenching Is a Common Activity in Marine Bacteria by Analysis of Cultivable Bacteria and Metagenomic Sequences. Applied and Environmental Microbiology, 2012, 78, 6345-6348.	3.1	73
48	Patents on Quorum Quenching: Interfering with Bacterial Communication as a Strategy to Fight Infections. Recent Patents on Biotechnology, 2012, 6, 2-12.	0.8	68
49	Quorum â€ƒsensing N-acylhomoserine lactone signals affect nitrogen fixation in the cyanobacterium Anabaena sp. PCC7120. FEMS Microbiology Letters, 2011, 315, 101-108.	1.8	28
50	Quorum quenching in cultivable bacteria from dense marine coastal microbial communities. FEMS Microbiology Ecology, 2011, 75, 205-217.	2.7	121
51	Effect of the Nutritional Status of Semi-continuous Microalgal Cultures on the Productivity and Biochemical Composition of Brachionus plicatilis. Marine Biotechnology, 2011, 13, 1074-1085.	2.4	16
52	Growth and fatty acid composition of Octopus vulgaris paralarvae fed with enriched Artemia or co-fed with an inert diet. Aquaculture International, 2010, 18, 1121-1135.	2.2	26
53	Acylhomoserine lactone production and degradation by the fish pathogenTenacibaculum maritimum, a member of theCytophaga-Flavobacterium-Bacteroides(CFB) group. FEMS Microbiology Letters, 2010, 304, 131-139.	1.8	101
54	High DHA content in Artemia is ineffective to improve Octopus vulgaris paralarvae rearing. Aquaculture, 2010, 300, 156-162.	3.5	43

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55	Nutritional value of the cryptophyte Rhodomonas lens for Artemia sp.. Journal of Experimental Marine Biology and Ecology, 2009, 381, 1-9.	1.5	67
56	Enriching Rotifers with â€œPremiumâ€•Microalgae. Nannochloropsis gaditana. Marine Biotechnology, 2009, 11, 585-595.	2.4	54
57	Quorum quenching activity inAnabaenasp. PCC 7120: identification of AiiC, a novel AHL-acylase. FEMS Microbiology Letters, 2008, 280, 73-80.	1.8	139
58	Enriching rotifers with â€œpremiumâ€•microalgae. Isochrysis aff. galbana clone T-ISO. Aquaculture, 2008, 279, 126-130.	3.5	33
59	Producing juvenile Artemia as prey for Octopus vulgaris paralarvae with different microalgal species of controlled biochemical composition. Aquaculture, 2008, 283, 83-91.	3.5	41
60	Use of biomass of the marine microalga Isochrysis galbana in the nutrition of goldfish (Carassius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.8	30
61	Microalgae: the â€˜self-synchronizedâ€™ eukaryotes. Trends in Biotechnology, 2005, 23, 448-449.	9.3	4
62	Delivery of astaxanthin from Haematocuccus pluvialis to the aquaculture food chain. Aquaculture, 2005, 250, 424-430.	3.5	22
63	NOSTOC (CYANOPHYCEAE) GOES NUDE: EXTRACELLULAR POLYSACCHARIDES SERVE AS A SINK FOR REDUCING POWER UNDER UNBALANCED C/N METABOLISM¹. Journal of Phycology, 2004, 40, 74-81.	2.3	94
64	The cell composition of Nannochloropsis sp. changes under different irradiances in semicontinuous culture. World Journal of Microbiology and Biotechnology, 2004, 20, 31-35.	3.6	120
65	Interactions between irradiance and nutrient availability during astaxanthin accumulation and degradation in Haematococcus pluvialis. Applied Microbiology and Biotechnology, 2003, 61, 545-551.	3.6	70
66	Extracellular polysaccharide synthesis by Nostoc strains as affected by N source and light intensity. Journal of Biotechnology, 2003, 102, 143-152.	3.8	169
67	Title is missing!. Biotechnology Letters, 2002, 24, 1699-1703.	2.2	76
68	Two-stage cultures for the production of Astaxanthin from Haematococcus pluvialis. Journal of Biotechnology, 2001, 89, 65-71.	3.8	167
69	Growth Rate of the Microalga Tetraselmis suecica Changes the Biochemical Composition of Artemia Species. Marine Biotechnology, 2001, 3, 256-263.	2.4	36
70	Optimization of culture medium for the continuous cultivation of the microalga Haematococcus pluvialis. Applied Microbiology and Biotechnology, 2000, 53, 530-535.	3.6	170
71	In vitro inhibition of the replication of haemorrhagic septicaemia virus (VHSV) and African swine fever virus (ASFV) by extracts from marine microalgae. Antiviral Research, 1999, 44, 67-73.	4.1	116
72	Mixotrophic production of phycoerythrin and exopolysaccharide by the microalga. Cryptogamie, Algologie, 1999, 20, 89-94.	0.9	18

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73	Title is missing!. Biotechnology Letters, 1998, 20, 623-626.	2.2	66
74	Steady-states of semicontinuous cultures of a marine diatom: Effect of saturating nutrient concentrations. Journal of Experimental Marine Biology and Ecology, 1998, 227, 23-33.	1.5	22
75	Renewal rate of semicontinuous cultures of the microalga Porphyridium cruentum modifies phycoerythrin, exopolysaccharide and fatty acid productivity. Journal of Bioscience and Bioengineering, 1998, 86, 477-481.	0.9	33
76	Germinated Solanum tuberosum: An agricultural product for marine microalgae culture. Bioresource Technology, 1998, 66, 19-24.	9.6	1
77	Modification of the nutritive value of Phaeodactylum tricornutum for Artemia sp. in semicontinuous cultures. Aquaculture, 1998, 169, 167-176.	3.5	23
78	Changes in the nutrient composition of Tetraselmis suecica cultured semicontinuously with different nutrient concentrations and renewal rates. Aquaculture, 1997, 159, 111-123.	3.5	52
79	Title is missing!. Journal of Applied Phycology, 1997, 9, 465-469.	2.8	31
80	Title is missing!. World Journal of Microbiology and Biotechnology, 1997, 13, 349-351.	3.6	15
81	The soluble fraction of Solanum tuberosum enhances growth and pigmentation of the microalga Tetraselmis suecica under photoheterotrophic conditions. Bioresource Technology, 1997, 59, 263-266.	9.6	3
82	Modification of sterol concentration in marine microalgae. Phytochemistry, 1997, 46, 1189-1191.	2.9	28
83	Tetraselmis suecica cultured in different nutrient concentrations varies in nutritional value to Artemia. Aquaculture, 1996, 143, 197-204.	3.5	26
84	Distinctive control of metabolic pathways byChlorella autotrophicain semicontinuous culture. Canadian Journal of Microbiology, 1996, 42, 1087-1090.	1.7	10
85	Use of agricultural surpluses for production of biomass by marine microalgae. World Journal of Microbiology and Biotechnology, 1996, 12, 47-49.	3.6	6
86	Astaxanthin production from the green alga Haematococcus pluvialis with different stress conditions. Biotechnology Letters, 1996, 18, 213-218.	2.2	43
87	Soluble fractions of Solanum tuberosum enchnce call and pigment production of semi-continous cultures of the microlga Phaeodactylum tricornutum. Letters in Applied Microbiology, 1996, 23, 223-226.	2.2	3
88	Discrepancies between cell volume and organic content in semi-continuous cultures of a marine microalga. Letters in Applied Microbiology, 1996, 22, 206-208.	2.2	7
89	Optimal Renewal Rate and Nutrient Concentration for the Production of the Marine Microalga Phaeodactylum tricornutum in Semicontinuous Cultures. Applied and Environmental Microbiology, 1996, 62, 266-268.	3.1	29
90	Changes in the gross chemical composition of mass cultures of the marine microalga Dunaliella tertiolecta with different aeration rates. Bioresource Technology, 1995, 53, 185-188.	9.6	9

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91	Productivity and biochemical composition of cyclostat cultures of the marine microalga Tetraselmis suecica. Applied Microbiology and Biotechnology, 1995, 43, 617-621.	3.6	24
92	Renewal rate and nutrient concentration as tools to modify productivity and biochemical composition of cyclostat cultures of the marine microalga Dunaliella tertiolecta. Applied Microbiology and Biotechnology, 1995, 44, 287-292.	3.6	31
93	Improvement of growth rate and cell productivity by aeration rate in cultures of the marine microalga Dunaliella tertiolecta. Bioresource Technology, 1994, 48, 107-111.	9.6	16
94	Decrease of plasma cholesterol with the marine microalga Dunaliella tertiolecta in hyper cholesterolemic rats.. Journal of General and Applied Microbiology, 1994, 40, 533-540.	0.7	2
95	Tris not only controls the pH in microalgal cultures, but also feeds bacteria. Journal of Applied Phycology, 1993, 5, 543-545.	2.8	24
96	Development of an electromechanical sensor and computer data acquisition system for monitoring the movement of cultured fish. Aquacultural Engineering, 1993, 12, 55-62.	3.1	3
97	A Preliminary Study on Antimicrobial Activities of Some Bacteria Isolated from Marine Environment.. Nippon Suisan Gakkaishi, 1991, 57, 1377-1382.	0.1	5
98	Computer prediction of the evolution of mollusc cultures: Application to Ostrea edulis culture. Aquacultural Engineering, 1989, 8, 165-176.	3.1	1
99	Multicomponent bioactive extract from red stage Haematococcus pluvialis wet paste: avoiding the drying step and toxic solvents. Journal of Applied Phycology, 0, , 1.	2.8	3