

# Ana Otero

## List of Publications by Year in descending order

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99  
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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  | Optimization of culture medium for the continuous cultivation of the microalga <i>Haematococcus pluvialis</i> . <i>Applied Microbiology and Biotechnology</i> , 2000, 53, 530-535.   | 3.6 | 170       |
| 2  | Extracellular polysaccharide synthesis by <i>Nostoc</i> strains as affected by N source and light intensity. <i>Journal of Biotechnology</i> , 2003, 102, 143-152.   | 3.8 | 169       |
| 3  | Two-stage cultures for the production of Astaxanthin from <i>Haematococcus pluvialis</i> . <i>Journal of Biotechnology</i> , 2001, 89, 65-71.  | 3.8 | 167       |
| 4  | Quorum quenching activity in <i>Anabaena</i> sp. PCC 7120: identification of AiiC, a novel AHL-acylase. <i>FEMS Microbiology Letters</i> , 2008, 280, 73-80.   | 1.8 | 139       |
| 5  | Quorum quenching in cultivable bacteria from dense marine coastal microbial communities. <i>FEMS Microbiology Ecology</i> , 2011, 75, 205-217.   | 2.7 | 121       |
| 6  | The cell composition of <i>Nannochloropsis</i> sp. changes under different irradiances in semicontinuous culture. <i>World Journal of Microbiology and Biotechnology</i> , 2004, 20, 31-35.  | 3.6 | 120       |
| 7  | In vitro inhibition of the replication of haemorrhagic septicaemia virus (VHSV) and African swine fever virus (ASFV) by extracts from marine microalgae. <i>Antiviral Research</i> , 1999, 44, 67-73.  | 4.1 | 116       |
| 8  | Acyllhomoserine lactone production and degradation by the fish pathogen <i>Tenacibaculum maritimum</i> , a member of the <i>Cytophaga-Flavobacterium-Bacteroides</i> (CFB) group. <i>FEMS Microbiology Letters</i> , 2010, 304, 131-139.                           | 1.8 | 101       |
| 9  | <i>NOSTOC</i> (CYANOPHYCEAE) GOES NUDE: EXTRACELLULAR POLYSACCHARIDES SERVE AS A SINK FOR REDUCING POWER UNDER UNBALANCED C/N METABOLISM <sup>1</sup> . <i>Journal of Phycology</i> , 2004, 40, 74-81.   | 2.3 | 94        |
| 10 | Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1699-1703.   | 2.2 | 76        |
| 11 | Determination of Whether Quorum Quenching Is a Common Activity in Marine Bacteria by Analysis of Cultivable Bacteria and Metagenomic Sequences. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6345-6348.   | 3.1 | 73        |
| 12 | Interactions between irradiance and nutrient availability during astaxanthin accumulation and degradation in <i>Haematococcus pluvialis</i> . <i>Applied Microbiology and Biotechnology</i> , 2003, 61, 545-551.   | 3.6 | 70        |
| 13 | Aii20J, a wide-spectrum thermostable N-acyllhomoserine lactonase from the marine bacterium <i>Tenacibaculum</i> sp. 20J, can quench AHL-mediated acid resistance in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9523-9539. | 3.6 | 70        |
| 14 | Patents on Quorum Quenching: Interfering with Bacterial Communication as a Strategy to Fight Infections. <i>Recent Patents on Biotechnology</i> , 2012, 6, 2-12.   | 0.8 | 68        |
| 15 | Nutritional value of the cryptophyte <i>Rhodomonas lens</i> for <i>Artemia</i> sp.. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 381, 1-9.  | 1.5 | 67        |
| 16 | Biotechnological applications of <i>Bacillus licheniformis</i> . <i>Critical Reviews in Biotechnology</i> , 2021, 41, 609-627.   | 9.0 | 67        |
| 17 | Title is missing!. <i>Biotechnology Letters</i> , 1998, 20, 623-626.   | 2.2 | 66        |
| 18 | Valorisation of aquaculture effluents with microalgae: The Integrated Multi-Trophic Aquaculture concept. <i>Algal Research</i> , 2017, 24, 416-424.  | 4.6 | 62        |

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|----|---|------|-----------|
| 19 | Anti-biofilm multi drug-loaded 3D printed hearing aids. <i>Materials Science and Engineering C</i> , 2021, 119, 111606.   | 7.3  | 59        |
| 20 | Multiple Quorum Quenching Enzymes Are Active in the Nosocomial Pathogen <i>Acinetobacter baumannii</i> ATCC17978. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 310.                                   | 3.9  | 55        |
| 21 | Enriching Rotifers with "Premium" Microalgae. <i>Nannochloropsis gaditana</i> . <i>Marine Biotechnology</i> , 2009, 11, 585-595.  | 2.4  | 54        |
| 22 | Quorum sensing network in clinical strains of <i>A. baumannii</i> : AidA is a new quorum quenching enzyme. <i>PLoS ONE</i> , 2017, 12, e0174454.  | 2.5  | 54        |
| 23 | Changes in the nutrient composition of <i>Tetraselmis suecica</i> cultured semicontinuously with different nutrient concentrations and renewal rates. <i>Aquaculture</i> , 1997, 159, 111-123.                              | 3.5  | 52        |
| 24 | In vitro quenching of fish pathogen <i>Edwardsiella tarda</i> AHL production using marine bacterium <i>Tenacibaculum</i> sp. strain 20J cell extracts. <i>Diseases of Aquatic Organisms</i> , 2014, 108, 217-225.           | 1.0  | 48        |
| 25 | Biochemical characterization of <i>Nostoc</i> sp. exopolysaccharides and evaluation of potential use in wound healing. <i>Carbohydrate Polymers</i> , 2021, 254, 117303.  | 10.2 | 47        |
| 26 | N-acylhomoserine lactone-degrading bacteria isolated from hatchery bivalve larval cultures. <i>Microbiological Research</i> , 2013, 168, 547-554.   | 5.3  | 45        |
| 27 | Biofilm Formation and Quorum-Sensing-Molecule Production by Clinical Isolates of <i>Serratia liquefaciens</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 3306-3315.  | 3.1  | 45        |
| 28 | Astaxanthin production from the green alga <i>Haematococcus pluvialis</i> with different stress conditions. <i>Biotechnology Letters</i> , 1996, 18, 213-218.   | 2.2  | 43        |
| 29 | High DHA content in <i>Artemia</i> is ineffective to improve <i>Octopus vulgaris</i> paralarvae rearing. <i>Aquaculture</i> , 2010, 300, 156-162.   | 3.5  | 43        |
| 30 | <i>Haematococcus pluvialis</i> bioprocess optimization: Effect of light quality, temperature and irradiance on growth, pigment content and photosynthetic response. <i>Algal Research</i> , 2020, 51, 102027.               | 4.6  | 43        |
| 31 | Producing juvenile <i>Artemia</i> as prey for <i>Octopus vulgaris</i> paralarvae with different microalgal species of controlled biochemical composition. <i>Aquaculture</i> , 2008, 283, 83-91.                            | 3.5  | 41        |
| 32 | High Prevalence of Quorum-Sensing and Quorum-Quenching Activity among Cultivable Bacteria and Metagenomic Sequences in the Mediterranean Sea. <i>Genes</i> , 2018, 9, 100.  | 2.4  | 37        |
| 33 | Quorum Sensing as a Target for Controlling Surface Associated Motility and Biofilm Formation in <i>Acinetobacter baumannii</i> ATCC® 17978™. <i>Frontiers in Microbiology</i> , 2020, 11, 565548.                           | 3.5  | 37        |
| 34 | Growth Rate of the Microalga <i>Tetraselmis suecica</i> Changes the Biochemical Composition of <i>Artemia</i> Species. <i>Marine Biotechnology</i> , 2001, 3, 256-263.  | 2.4  | 36        |
| 35 | Inhibition of <i>Streptococcus mutans</i> biofilm formation by extracts of <i>Tenacibaculum</i> sp. 20J, a bacterium with wide-spectrum quorum quenching activity. <i>Journal of Oral Microbiology</i> , 2018, 10, 1429788. | 2.7  | 36        |
| 36 | Acyl homoserine lactone-mediated quorum sensing in the oral cavity: a paradigm revisited. <i>Scientific Reports</i> , 2020, 10, 9800.   | 3.3  | 34        |

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|----|--|-----|-----------|
| 37 | Renewal rate of semicontinuous cultures of the microalga <i>Porphyridium cruentum</i> modifies phycoerythrin, exopolysaccharide and fatty acid productivity. <i>Journal of Bioscience and Bioengineering</i> , 1998, 86, 477-481.                    | 0.9 | 33        |
| 38 | Enriching rotifers with "premium" microalgae. <i>Isochrysis aff. galbana</i> clone T-ISO. <i>Aquaculture</i> , 2008, 279, 126-130.   | 3.5 | 33        |
| 39 | Renewal rate and nutrient concentration as tools to modify productivity and biochemical composition of cyclostat cultures of the marine microalga <i>Dunaliella tertiolecta</i> . <i>Applied Microbiology and Biotechnology</i> , 1995, 44, 287-292. | 3.6 | 31        |
| 40 | Title is missing!. <i>Journal of Applied Phycology</i> , 1997, 9, 465-469.   | 2.8 | 31        |
| 41 | Use of biomass of the marine microalga <i>Isochrysis galbana</i> in the nutrition of goldfish ( <i>Carassius</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 1.8 30  | 1.8 | 30        |
| 42 | <i>Nannochloropsis limnetica</i> : A freshwater microalga for marine aquaculture. <i>Aquaculture</i> , 2016, 459, 124-130.   | 3.5 | 29        |
| 43 | Optimal Renewal Rate and Nutrient Concentration for the Production of the Marine Microalga <i>Phaeodactylum tricornutum</i> in Semicontinuous Cultures. <i>Applied and Environmental Microbiology</i> , 1996, 62, 266-268.                           | 3.1 | 29        |
| 44 | Modification of sterol concentration in marine microalgae. <i>Phytochemistry</i> , 1997, 46, 1189-1191.  | 2.9 | 28        |
| 45 | Quorum sensing N-acylhomoserine lactone signals affect nitrogen fixation in the cyanobacterium <i>Anabaena</i> sp. PCC7120. <i>FEMS Microbiology Letters</i> , 2011, 315, 101-108.   | 1.8 | 28        |
| 46 | Effect of Mg, Si, and Sr on growth and antioxidant activity of the marine microalga <i>Tetraselmis suecica</i> . <i>Journal of Applied Phycology</i> , 2012, 24, 1229-1236.  | 2.8 | 27        |
| 47 | Application of microalgae and microalgal bioactive compounds in skin regeneration. <i>Algal Research</i> , 2021, 58, 102395.   | 4.6 | 27        |
| 48 | <i>Tetraselmis suecica</i> cultured in different nutrient concentrations varies in nutritional value to <i>Artemia</i> . <i>Aquaculture</i> , 1996, 143, 197-204.  | 3.5 | 26        |
| 49 | Growth and fatty acid composition of <i>Octopus vulgaris</i> paralarvae fed with enriched <i>Artemia</i> or co-fed with an inert diet. <i>Aquaculture International</i> , 2010, 18, 1121-1135.   | 2.2 | 26        |
| 50 | Short-Chain N-Acylhomoserine Lactone Quorum-Sensing Molecules Promote Periodontal Pathogens in In Vitro Oral Biofilms. <i>Applied and Environmental Microbiology</i> , 2020, 86, .   | 3.1 | 26        |
| 51 | Effect of light quality on carotenogenic and non-carotenogenic species of the genus <i>Dunaliella</i> under nitrogen deficiency. <i>Algal Research</i> , 2019, 44, 101725.   | 4.6 | 25        |
| 52 | Tris not only controls the pH in microalgal cultures, but also feeds bacteria. <i>Journal of Applied Phycology</i> , 1993, 5, 543-545.   | 2.8 | 24        |
| 53 | Productivity and biochemical composition of cyclostat cultures of the marine microalga <i>Tetraselmis suecica</i> . <i>Applied Microbiology and Biotechnology</i> , 1995, 43, 617-621.   | 3.6 | 24        |
| 54 | Modification of the nutritive value of <i>Phaeodactylum tricornutum</i> for <i>Artemia</i> sp. in semicontinuous cultures. <i>Aquaculture</i> , 1998, 169, 167-176.  | 3.5 | 23        |

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|----|--|-----|-----------|
| 55 | Effect of nutritional status and concentration of <i>Nannochloropsis gaditana</i> as enrichment diet for the marine rotifer <i>Brachionus</i> sp. <i>Aquaculture</i> , 2018, 491, 351-357.   | 3.5 | 23        |
| 56 | Immobilization of antimicrobial and anti-quorum sensing enzymes onto GMA-grafted poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70   | 5.2 | 23        |
| 57 | Steady-states of semicontinuous cultures of a marine diatom: Effect of saturating nutrient concentrations. <i>Journal of Experimental Marine Biology and Ecology</i> , 1998, 227, 23-33.   | 1.5 | 22        |
| 58 | Delivery of astaxanthin from <i>Haematococcus pluvialis</i> to the aquaculture food chain. <i>Aquaculture</i> , 2005, 250, 424-430.  | 3.5 | 22        |
| 59 | Resveratrol-Loaded Hydrogel Contact Lenses with Antioxidant and Antibiofilm Performance. <i>Pharmaceutics</i> , 2021, 13, 532.   | 4.5 | 21        |
| 60 | Growth and bioactivity of two chlorophyte ( <i>Chlorella</i> and <i>Scenedesmus</i> ) strains co-cultured outdoors in two different thin-layer units using municipal wastewater as a nutrient source. <i>Algal Research</i> , 2021, 56, 102299.    | 4.6 | 21        |
| 61 | Silencing Bacterial Communication Through Enzymatic Quorum-Sensing Inhibition. , 2015, , 219-236.  |     | 20        |
| 62 | Mixotrophic production of phycoerythrin and exopolysaccharide by the microalga. <i>Cryptogamie, Algologie</i> , 1999, 20, 89-94.   | 0.9 | 18        |
| 63 | Improvement of growth rate and cell productivity by aeration rate in cultures of the marine microalga <i>Dunaliella tertiolecta</i> . <i>Bioresource Technology</i> , 1994, 48, 107-111.   | 9.6 | 16        |
| 64 | Effect of the Nutritional Status of Semi-continuous Microalgal Cultures on the Productivity and Biochemical Composition of <i>Brachionus plicatilis</i> . <i>Marine Biotechnology</i> , 2011, 13, 1074-1085.                                       | 2.4 | 16        |
| 65 | Does <i>Haematococcus pluvialis</i> need to sleep?. <i>Algal Research</i> , 2019, 44, 101722.  | 4.6 | 16        |
| 66 | Nutrient removal from the centrate of anaerobic digestion of high ammonium industrial wastewater by a semi-continuous culture of <i>Arthrospira</i> sp. and <i>Nostoc</i> sp. PCC 7413. <i>Journal of Applied Phycology</i> , 2020, 32, 2785-2794. | 2.8 | 16        |
| 67 | Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 1997, 13, 349-351.   | 3.6 | 15        |
| 68 | Quorum sensing systems as a new target to prevent biofilm-related oral diseases. <i>Oral Diseases</i> , 2022, 28, 307-313.   | 3.0 | 15        |
| 69 | Mushroom-shaped structures formed in <i>Acinetobacter baumannii</i> biofilms grown in a roller bioreactor are associated with quorum sensing-dependent <i>Csua</i> pilus assembly. <i>Environmental Microbiology</i> , 2022, 24, 4329-4339.        | 3.8 | 12        |
| 70 | Distinctive control of metabolic pathways by <i>Chlorella autotrophica</i> in semicontinuous culture. <i>Canadian Journal of Microbiology</i> , 1996, 42, 1087-1090.   | 1.7 | 10        |
| 71 | Changes in the gross chemical composition of mass cultures of the marine microalga <i>Dunaliella tertiolecta</i> with different aeration rates. <i>Bioresource Technology</i> , 1995, 53, 185-188.   | 9.6 | 9         |
| 72 | The effect of bacteria on planula-larvae settlement and metamorphosis in the octocoral <i>Rhytisma fulvum fulvum</i> . <i>PLoS ONE</i> , 2019, 14, e0223214.   | 2.5 | 9         |

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|----|---|-----|-----------|
| 73 | Matrix solid-phase dispersion as a greener alternative to obtain bioactive extracts from <i>Haematococcus pluvialis</i> . Characterization by UHPLC-QToF. RSC Advances, 2020, 10, 27995-28006.  | 3.6 | 8         |
| 74 | 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         |
| 75 | Enriching Rotifers with "Premium" Microalgae: <i>Rhodomonas lens</i> . Marine Biotechnology, 2020, 22, 118-129.   | 2.4 | 7         |
| 76 | Diel biochemical and photosynthetic monitorization of <i>Skeletonema costatum</i> and <i>Phaeodactylum tricornutum</i> grown in outdoor pilot-scale flat panel photobioreactors. Journal of Biotechnology, 2022, 343, 110-119.                      | 3.8 | 7         |
| 77 | Use of agricultural surpluses for production of biomass by marine microalgae. World Journal of Microbiology and Biotechnology, 1996, 12, 47-49.   | 3.6 | 6         |
| 78 | Lipid accumulation in selected <i>Tetraselmis</i> strains. Journal of Applied Phycology, 2019, 31, 2845-2853.   | 2.8 | 6         |
| 79 | Quorum quenching and anti-biofilm activities of halotolerant <i>Bacillus</i> strains isolated in different environments in Algeria. Journal of Applied Microbiology, 2022, 132, 1825-1839.  | 3.1 | 6         |
| 80 | A Preliminary Study on Antimicrobial Activities of Some Bacteria Isolated from Marine Environment.. Nippon Suisan Gakkaishi, 1991, 57, 1377-1382.   | 0.1 | 5         |
| 81 | Use of Quorum Sensing Inhibition Strategies to Control Microfouling. Marine Drugs, 2021, 19, 74.  | 4.6 | 5         |
| 82 | Development of a reversible regulatory system for gene expression in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 by quorum-sensing machinery from marine bacteria. Journal of Applied Phycology, 2021, 33, 1651-1662.                      | 2.8 | 5         |
| 83 | Effects of LED lighting on <i>Nannochloropsis oceanica</i> grown in outdoor raceway ponds. Algal Research, 2022, 64, 102685.  | 4.6 | 5         |
| 84 | Microalgae: the "self-synchronized" eukaryotes. Trends in Biotechnology, 2005, 23, 448-449.   | 9.3 | 4         |
| 85 | In situ monitoring of chlorophyll fluorescence in <i>Nannochloropsis oceanica</i> cultures to assess photochemical changes and the onset of lipid accumulation during nitrogen deprivation. Biotechnology and Bioengineering, 2021, 118, 4375-4388. | 3.3 | 4         |
| 86 | 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         |
| 87 | Soluble fractions of <i>Solanum tuberosum</i> enhance call and pigment production of semi-continuous cultures of the microalga <i>Phaeodactylum tricornutum</i> . Letters in Applied Microbiology, 1996, 23, 223-226.                               | 2.2 | 3         |
| 88 | The soluble fraction of <i>Solanum tuberosum</i> enhances growth and pigmentation of the microalga <i>Tetraselmis suecica</i> under photoheterotrophic conditions. Bioresource Technology, 1997, 59, 263-266.                                       | 9.6 | 3         |
| 89 | Evaluation of the Anti-fouling Efficacy of <i>Bacillus licheniformis</i> Extracts Under Environmental and Natural Conditions. Frontiers in Marine Science, 2021, 8, .   | 2.5 | 3         |
| 90 | Multicomponent bioactive extract from red stage <i>Haematococcus pluvialis</i> wet paste: avoiding the drying step and toxic solvents. Journal of Applied Phycology, 0, , 1.  | 2.8 | 3         |

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|----|---|-----|-----------|
| 91 | Quorum Sensing in <i>Acinetobacter</i> Virulence. ACS Symposium Series, 2020, , 115-137.  | 0.5 | 2         |
| 92 | Decrease of plasma cholesterol with the marine microalga <i>Dunaliella tertiolecta</i> in hypercholesterolemic rats.. Journal of General and Applied Microbiology, 1994, 40, 533-540. | 0.7 | 2         |
| 93 | Breaking Bad. , 2020, , 175-185.  |     | 2         |
| 94 | Computer prediction of the evolution of mollusc cultures: Application to <i>Ostrea edulis</i> culture. Aquacultural Engineering, 1989, 8, 165-176.                                    | 3.1 | 1         |
| 95 | Germinated <i>Solanum tuberosum</i> : An agricultural product for marine microalgae culture. Bioresource Technology, 1998, 66, 19-24.   | 9.6 | 1         |
| 96 | Title is missing!. , 2019, 14, e0223214.  |     | 0         |
| 97 | Title is missing!. , 2019, 14, e0223214.  |     | 0         |
| 98 | Title is missing!. , 2019, 14, e0223214.  |     | 0         |
| 99 | Title is missing!. , 2019, 14, e0223214.  |     | 0         |