

Francisco Garcia-Camacho

List of Publications by Year in descending order

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122
papers

6,618
citations

76196

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82410

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127
all docs

127
docs citations

127
times ranked

4623
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathogens and predators impacting commercial production of microalgae and cyanobacteria. <i>Biotechnology Advances</i> , 2022, 55, 107884.	6.0	38
2	Influence of abiotic conditions on the biofouling formation of flagellated microalgae culture. <i>Biofouling</i> , 2022, 38, 507-520.	0.8	3
3	Treatment of secondary urban wastewater with a low ammonium-tolerant marine microalga using zeolite-based adsorption. <i>Bioresource Technology</i> , 2022, 359, 127490.	4.8	9
4	Long-term biofouling formation mediated by extracellular proteins in <i>Nannochloropsis gaditana</i> microalga cultures at different medium N/P ratios. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1152-1165.	1.7	14
5	Isolation and Structural Elucidation of New Amphidinol Analogues from <i>Amphidinium carterae</i> Cultivated in a Pilot-Scale Photobioreactor. <i>Marine Drugs</i> , 2021, 19, 432.	2.2	7
6	CFD-based prediction of initial microalgal adhesion to solid surfaces using force balances. <i>Biofouling</i> , 2021, 37, 1-18.	0.8	3
7	An integrated approach for the efficient separation of specialty compounds from biomass of the marine microalgae <i>Amphidinium carterae</i> . <i>Bioresource Technology</i> , 2021, 342, 125922.	4.8	6
8	Infection Units: A Novel Approach for Modeling COVID-19 Spread. <i>Processes</i> , 2021, 9, 2272.	1.3	2
9	Production of extracts with anaesthetic activity from the culture of <i>Heterosigma akashiwo</i> in pilot-scale photobioreactors. <i>Algal Research</i> , 2020, 45, 101760.	2.4	6
10	LC-MS/MS Method Development for the Discovery and Identification of Amphidinols Produced by <i>Amphidinium</i> . <i>Marine Drugs</i> , 2020, 18, 497.	2.2	17
11	Improving the learning of thickening design through graphical methods with the freeware software SMath studio. <i>Computer Applications in Engineering Education</i> , 2020, 28, 1391-1405.	2.2	1
12	Improved extraction of bioactive compounds from biomass of the marine dinoflagellate microalga <i>Amphidinium carterae</i> . <i>Bioresource Technology</i> , 2020, 313, 123518.	4.8	16
13	Influence of culture medium recycling on the growth of a marine dinoflagellate microalga and bioactives production in a raceway photobioreactor. <i>Algal Research</i> , 2020, 47, 101820.	2.4	14
14	Acclimation of the microalga <i>Amphidinium carterae</i> to different nitrogen sources: potential application in the treatment of marine aquaculture effluents. <i>Journal of Applied Phycology</i> , 2020, 32, 1075-1094.	1.5	7
15	Photobioreactors – Models of Photosynthesis and Related Effects. , 2019, , 320-360.		1
16	Production of Amphidinols and Other Bioproducts of Interest by the Marine Microalga <i>Amphidinium carterae</i> Unraveled by Nuclear Magnetic Resonance Metabolomics Approach Coupled to Multivariate Data Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9667-9682.	2.4	25
17	A new approach to finding optimal centrifugation conditions for shear-sensitive microalgae. <i>Algal Research</i> , 2019, 44, 101677.	2.4	10
18	Assessment of a photobioreactor-coupled modified Robbins device to compare the adhesion of <i>Nannochloropsis gaditana</i> on different materials. <i>Algal Research</i> , 2019, 37, 277-287.	2.4	7

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19	New insights into developing antibiofouling surfaces for industrial photobioreactors. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2212-2222.	1.7	17
20	Assessment of multi-step processes for an integral use of the biomass of the marine microalga <i>Amphidinium carterae</i> . <i>Bioresource Technology</i> , 2019, 282, 370-377.	4.8	15
21	Characterization of bubble column photobioreactors for shear-sensitive microalgae culture. <i>Bioresource Technology</i> , 2019, 275, 1-9.	4.8	29
22	Maximizing carotenoid extraction from microalgae used as food additives and determined by liquid chromatography (HPLC). <i>Food Chemistry</i> , 2018, 257, 316-324.	4.2	81
23	A pilot-scale bioprocess to produce amphidinols from the marine microalga <i>Amphidinium carterae</i> : Isolation of a novel analogue. <i>Algal Research</i> , 2018, 31, 87-98.	2.4	27
24	CFD-aided optimization of a laboratory-scale centrifugation for a shear-sensitive insect cell line. <i>Food and Bioproducts Processing</i> , 2018, 107, 113-120.	1.8	5
25	Pilot-scale outdoor photobioreactor culture of the marine dinoflagellate <i>Karlodinium veneficum</i> : Production of a karlotoxins-rich extract. <i>Bioresource Technology</i> , 2018, 253, 94-104.	4.8	14
26	The use of an artificial neural network to model the infection strategy for baculovirus production in suspended insect cell cultures. <i>Cytotechnology</i> , 2018, 70, 555-565.	0.7	1
27	Long-term culture of the marine dinoflagellate microalga <i>Amphidinium carterae</i> in an indoor LED-lighted raceway photobioreactor: Production of carotenoids and fatty acids. <i>Bioresource Technology</i> , 2018, 265, 257-267.	4.8	42
28	Data on the <i>Amphidinium carterae</i> Dn241EHU isolation and morphological and molecular characterization. <i>Data in Brief</i> , 2018, 20, 1-5.	0.5	7
29	A methodological study of adhesion dynamics in a batch culture of the marine microalga <i>Nannochloropsis gaditana</i> . <i>Algal Research</i> , 2017, 23, 240-254.	2.4	16
30	Biofouling in photobioreactors for marine microalgae. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 1006-1023.	5.1	50
31	Modeling shear-sensitive dinoflagellate microalgae growth in bubble column photobioreactors. <i>Bioresource Technology</i> , 2017, 245, 250-257.	4.8	16
32	LC-MS/MS Detection of Karlotoxins Reveals New Variants in Strains of the Marine Dinoflagellate <i>Karlodinium veneficum</i> from the Ebro Delta (NW Mediterranean). <i>Marine Drugs</i> , 2017, 15, 391.	2.2	20
33	Pilot-scale bubble column photobioreactor culture of a marine dinoflagellate microalga illuminated with light emission diodes. <i>Bioresource Technology</i> , 2016, 216, 845-855.	4.8	42
34	Artificial neural network modeling for predicting the growth of the microalga <i>Karlodinium veneficum</i> . <i>Algal Research</i> , 2016, 14, 58-64.	2.4	43
35	New insights into shear-sensitivity in dinoflagellate microalgae. <i>Bioresource Technology</i> , 2016, 200, 699-705.	4.8	24
36	Rapid method for the assessment of cell lysis in microalgae cultures. <i>Journal of Applied Phycology</i> , 2016, 28, 105-112.	1.5	7

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37	An optimal culture medium for growing <i>Karlodinium veneficum</i> : Progress towards a microalgal dinoflagellate-based bioprocess. <i>Algal Research</i> , 2015, 10, 177-182.	2.4	19
38	An optimisation approach for culturing shear-sensitive dinoflagellate microalgae in bench-scale bubble column photobioreactors. <i>Bioresource Technology</i> , 2015, 197, 375-382.	4.8	42
39	Simultaneous Effect of Temperature and Irradiance on Growth and Okadaic Acid Production from the Marine Dinoflagellate <i>Prorocentrum belizeanum</i> . <i>Toxins</i> , 2014, 6, 229-253.	1.5	35
40	Evaluation of the grazer-prey interaction as a biotechnological strategy to increase toxin production by dinoflagellate cultures in photobioreactors. <i>Journal of Applied Phycology</i> , 2014, 26, 257-263.	1.5	0
41	Protein production using the baculovirus-insect cell expression system. <i>Biotechnology Progress</i> , 2014, 30, 1-18.	1.3	113
42	Culture of Microalgal Dinoflagellates. , 2014, , 551-566.		2
43	Co-culture of the 55-6 B cell hybridoma with the EL-4 thymoma cell. Effect on cell growth and monoclonal antibody production. <i>Cytotechnology</i> , 2013, 65, 655-662.	0.7	1
44	Adaptation of the <i>Spodoptera exigua</i> Se301 insect cell line to grow in serum-free suspended culture. Comparison of SeMNPV productivity in serum-free and serum-containing media. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3373-3381.	1.7	5
45	Modelling of multi-nutrient interactions in growth of the dinoflagellate microalga <i>Protoceratium reticulatum</i> using artificial neural networks. <i>Bioresource Technology</i> , 2013, 146, 682-688.	4.8	22
46	Mixotrophic growth of <i>Phaeodactylum tricornutum</i> on fructose and glycerol in fed-batch and semi-continuous modes. <i>Bioresource Technology</i> , 2013, 147, 569-576.	4.8	58
47	A process for biodiesel production involving the heterotrophic fermentation of <i>Chlorella protothecoides</i> with glycerol as the carbon source. <i>Applied Energy</i> , 2013, 103, 341-349.	5.1	78
48	The Effect of Spent Medium Recycle on Cell Proliferation, Metabolism and Baculovirus Production by the Lepidopteran Se301 Cell Line Infected at Very Low MOI. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 1747-1756.	0.9	6
49	Bioactives from microalgal dinoflagellates. <i>Biotechnology Advances</i> , 2012, 30, 1673-1684.	6.0	88
50	Cytotoxicity of yessotoxin and okadaic acid in mouse T lymphocyte cell line EL-4. <i>Toxicol</i> , 2012, 60, 1049-1056.	0.8	24
51	Shear-induced changes in membrane fluidity during culture of a fragile dinoflagellate microalga. <i>Biotechnology Progress</i> , 2012, 28, 467-473.	1.3	20
52	A mechanistic model of photosynthesis in microalgae including photoacclimation dynamics. <i>Journal of Theoretical Biology</i> , 2012, 304, 1-15.	0.8	91
53	Photobioreactors - Models of Photosynthesis and Related Effects. , 2011, , 227-247.		2
54	Genetic algorithm-based medium optimization for a toxic dinoflagellate microalga. <i>Harmful Algae</i> , 2011, 10, 697-701.	2.2	15

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55	Immunoregulatory potential of marine algal toxins yessotoxin and okadaic acid in mouse T lymphocyte cell line EL-4. <i>Toxicology Letters</i> , 2011, 207, 167-172.	0.4	23
56	Adaptation of the Se301 insect cell line to suspension culture. Effect of turbulence on growth and on production of nucleopolyhedrovirus (SeMNPV). <i>Cytotechnology</i> , 2011, 63, 543-552.	0.7	8
57	Carboxymethyl cellulose and Pluronic F68 protect the dinoflagellate <i>Protoceratium reticulatum</i> against shear-associated damage. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 3-12.	1.7	14
58	Photobioreactor scale-up for a shear-sensitive dinoflagellate microalga. <i>Process Biochemistry</i> , 2011, 46, 936-944.	1.8	64
59	Effects of hydroxyurea on monoclonal antibody production induced by anti-mIgG and LPS stimulation on murine B cell hybridomas. <i>Cytotechnology</i> , 2010, 62, 205-215.	0.7	1
60	Culture of dinoflagellates in a fed-batch and continuous stirred-tank photobioreactors: Growth, oxidative stress and toxin production. <i>Process Biochemistry</i> , 2010, 45, 660-666.	1.8	30
61	Causes of shear sensitivity of the toxic dinoflagellate <i>Protoceratium reticulatum</i> . <i>Biotechnology Progress</i> , 2009, 25, 792-800.	1.3	62
62	Influence of turbulence on the adaptation of the baculovirus-producer <i>Spodoptera exigua</i> Se301 cell line to suspension culture. <i>New Biotechnology</i> , 2009, 25, S218-S219.	2.4	0
63	Macronutrients requirements of the dinoflagellate <i>Protoceratium reticulatum</i> . <i>Harmful Algae</i> , 2009, 8, 239-246.	2.2	30
64	Determination of shear stress thresholds in toxic dinoflagellates cultured in shaken flasks. <i>Process Biochemistry</i> , 2007, 42, 1506-1515.	1.8	74
65	New Culture Approaches for Yessotoxin Production from the Dinoflagellate <i>Protoceratium reticulatum</i> . <i>Biotechnology Progress</i> , 2007, 23, 339-350.	1.3	24
66	Induction of CD40 Expression and Enhancement of Monoclonal Antibody Production on Murine B Cell Hybridomas by Cross-Linking of IgG Receptors. <i>Biotechnology Progress</i> , 2007, 23, 452-457.	1.3	5
67	Effects of Synchronization on CD40 Expression and Antibody Production in Hybridoma Cells Stimulated with Anti-mIgG. <i>Biotechnology Progress</i> , 2007, 23, 958-963.	1.3	3
68	Enhanced Monoclonal Antibody Production in Hybridoma Cells by LPS and Anti-mIgG. <i>Biotechnology Progress</i> , 2007, 23, 1447-1453.	1.3	5
69	Biotechnological significance of toxic marine dinoflagellates. <i>Biotechnology Advances</i> , 2007, 25, 176-194.	6.0	160
70	Analysis of kinetic, stoichiometry and regulation of glucose and glutamine metabolism in hybridoma batch cultures using logistic equations. <i>Cytotechnology</i> , 2007, 54, 189-200.	0.7	19
71	Effects of Synchronization on CD40 Expression and Antibody Production in Hybridoma Cells Stimulated with Anti-mIgG. <i>Biotechnology Progress</i> , 2007, 23, 958-963.	1.3	4
72	Sustained Growth of Explants from Mediterranean Sponge <i>Crambe crambe</i> Cultured In Vitro with Enriched RPMI 1640. <i>Biotechnology Progress</i> , 2006, 22, 781-790.	1.3	12

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73	A bioreactionâ€“diffusion model for growth of marine sponge explants in bioreactors. Applied Microbiology and Biotechnology, 2006, 73, 525-532.	1.7	4
74	Shear effects on suspended marine sponge cells. Biochemical Engineering Journal, 2005, 26, 115-121.	1.8	13
75	Mixotrophic growth of the microalga Phaeodactylum tricornutum. Process Biochemistry, 2005, 40, 297-305.	1.8	153
76	Pilot-Plant-Scale Outdoor Mixotrophic Cultures of Phaeodactylum tricornutum Using Glycerol in Vertical Bubble Column and Airlift Photobioreactors: Studies in Fed-Batch Mode. Biotechnology Progress, 2004, 20, 728-736.	1.3	49
77	Mixing in Bubble Column and Airlift Reactors. Chemical Engineering Research and Design, 2004, 82, 1367-1374.	2.7	97
78	Producing drugs from marine sponges. Biotechnology Advances, 2003, 21, 585-598.	6.0	136
79	A mechanistic model of photosynthesis in microalgae. Biotechnology and Bioengineering, 2003, 81, 459-473.	1.7	214
80	Analysis of photobioreactors for culturing high-value microalgae and cyanobacteria via an advanced diagnostic technique: CARPT. Chemical Engineering Science, 2003, 58, 2519-2527.	1.9	67
81	Cultivation of explants of the marine sponge Crambe crambe in closed systems. New Biotechnology, 2003, 20, 333-337.	2.7	29
82	Shear stress tolerance and biochemical characterization of Phaeodactylum tricornutum in quasi steady-state continuous culture in outdoor photobioreactors. Biochemical Engineering Journal, 2003, 16, 287-297.	1.8	235
83	Growth and biochemical characterization of microalgal biomass produced in bubble column and airlift photobioreactors: studies in fed-batch culture. Enzyme and Microbial Technology, 2002, 31, 1015-1023.	1.6	165
84	Biomass Nutrient Profiles of the Microalga Nannochloropsis. Journal of Agricultural and Food Chemistry, 2001, 49, 2966-2972.	2.4	140
85	Carboxymethyl cellulose protects algal cells against hydrodynamic stress. Enzyme and Microbial Technology, 2001, 29, 602-610.	1.6	81
86	Carbon dioxide uptake efficiency by outdoor microalgal cultures in tubular airlift photobioreactors. , 2000, 67, 465-475.		82
87	Modeling of eicosapentaenoic acid (EPA) production from Phaeodactylum tricornutum cultures in tubular photobioreactors. Effects of dilution rate, tube diameter, and solar irradiance. , 2000, 68, 173-183.		56
88	Use of concentric-tube airlift photobioreactors for microalgal outdoor mass cultures. Enzyme and Microbial Technology, 1999, 24, 164-172.	1.6	90
89	Influence of sparger on energy dissipation, shear rate, and mass transfer to sea water in a concentric-tube airlift bioreactor. Enzyme and Microbial Technology, 1999, 25, 820-830.	1.6	57
90	Prediction of dissolved oxygen and carbon dioxide concentration profiles in tubular photobioreactors for microalgal culture. , 1999, 62, 71-86.		262

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91	Photobioreactors: light regime, mass transfer, and scaleup. <i>Journal of Biotechnology</i> , 1999, 70, 231-247.	1.9	456
92	Comparative evaluation of compact photobioreactors for large-scale monoculture of microalgae. <i>Journal of Biotechnology</i> , 1999, 70, 249-270.	1.9	286
93	Studies of mixing in a concentric tube airlift bioreactor with different spargers. <i>Chemical Engineering Science</i> , 1998, 53, 709-719.	1.9	86
94	Modeling of biomass productivity in tubular photobioreactors for microalgal cultures: Effects of dilution rate, tube diameter, and solar irradiance. , 1998, 58, 605-616.		188
95	Interaction between CO ₂ -mass transfer, light availability, and hydrodynamic stress in the growth of <i>Phaeodactylum tricornutum</i> in a concentric tube airlift photobioreactor. , 1998, 60, 317-325.		131
96	Photolimitation and photoinhibition as factors determining optimal dilution rate to produce eicosapentaenoic acid from cultures of the microalga <i>Isochrysis galbana</i> . <i>Applied Microbiology and Biotechnology</i> , 1998, 50, 199-205.	1.7	38
97	A model for light distribution and average solar irradiance inside outdoor tubular photobioreactors for the microalgal mass culture. , 1997, 55, 701-714.		202
98	A study on simultaneous photolimitation and photoinhibition in dense microalgal cultures taking into account incident and averaged irradiances. <i>Journal of Biotechnology</i> , 1996, 45, 59-69.	1.9	164
99	Growth yield determination in a chemostat culture of the marine microalgae <i>isochrysis galbana</i> . <i>Journal of Applied Phycology</i> , 1996, 8, 529-534.	1.5	18
100	Variation of fatty acid profile with solar cycle in outdoor chemostat culture of <i>isochrysis galbana</i> ALII-4. <i>Journal of Applied Phycology</i> , 1995, 7, 129-134.	1.5	15
101	Concentration and purification of stearidonic, eicosapentaenoic, and docosahexaenoic acids from cod liver oil and the marine microalgae <i>isochrysis galbana</i> . <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 575-583.	0.8	85
102	The production of polyunsaturated fatty acids by microalgae: from strain selection to product purification. <i>Process Biochemistry</i> , 1995, 30, 711-719.	1.8	49
103	Biomass and icosapentaenoic acid productivities from an outdoor batch culture of <i>Phaeodactylum tricornutum</i> UTEX 640 in an airlift tubular photobioreactor. <i>Applied Microbiology and Biotechnology</i> , 1995, 42, 658-663.	1.7	41
104	Effect of dilution rate on eicosapentaenoic acid productivity of <i>Phaeodactylum tricornutum</i> utex 640 in outdoor chemostat culture. <i>Biotechnology Letters</i> , 1994, 16, 1035-1040.	1.1	27
105	Comparison between extraction of lipids and fatty acids from microalgal biomass. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1994, 71, 955-959.	0.8	134
106	QUANTITATIVE GENETICS OF FATTY ACID VARIATION IN <i>ISOCHRYSIS GALBANA</i> (PRYMNESIOPHYCEAE) AND <i>PHAEODACTYLUM TRICORNUTUM</i> (BACILLARIOPHYCEAE)1. <i>Journal of Phycology</i> , 1994, 30, 553-558.	1.0	23
107	Outdoor culture of <i>isochrysis galbana</i> ALII-4 in a closed tubular photobioreactor. <i>Journal of Biotechnology</i> , 1994, 37, 159-166.	1.9	48
108	Effect of growth rate on the eicosapentaenoic acid and docosahexaenoic acid content of <i>isochrysis galbana</i> in chemostat culture. <i>Applied Microbiology and Biotechnology</i> , 1994, 41, 23-27.	1.7	67

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109	Biochemical productivity and fatty acid profiles of <i>Isochrysis galbana</i> Parke and <i>Tetraselmis</i> sp. as a function of incident light intensity. <i>Process Biochemistry</i> , 1994, 29, 119-126.	1.8	23
110	Preservation of the marine microalga, <i>Isochrysis galbana</i> : influence on the fatty acid profile. <i>Aquaculture</i> , 1994, 123, 377-385.	1.7	44
111	A mathematical model of microalgal growth in light-limited chemostat culture. <i>Journal of Chemical Technology and Biotechnology</i> , 1994, 61, 167-173.	1.6	220
112	Estudio de macronutrientes para la producción de PUFAs a partir de la microalga marina <i>Isochrysis galbana</i> . <i>Grasas Y Aceites</i> , 1994, 45, 323-331.	0.3	7
113	n-3 PUFA productivity in chemostat cultures of microalgae. <i>Applied Microbiology and Biotechnology</i> , 1993, 38, 599.	1.7	74
114	Cuantificación de Ácidos grasos a partir de biomasa microalgal. <i>Grasas Y Aceites</i> , 1993, 44, 348-353.	0.3	16
115	EPA from <i>Isochrysis galbana</i> . Growth conditions and productivity. <i>Process Biochemistry</i> , 1992, 27, 299-305.	1.8	65
116	Isolation of clones of <i>Isochrysis galbana</i> rich in eicosapentaenoic acid. <i>Aquaculture</i> , 1992, 102, 363-371.	1.7	50
117	Fatty acid variation among different isolates of a single strain of <i>Isochrysis galbana</i> . <i>Phytochemistry</i> , 1992, 31, 3901-3904.	1.4	31
118	The influence of temperature and the initial N:P ratio on the growth of microalgae <i>Tetraselmis</i> sp.. <i>Process Biochemistry</i> , 1991, 26, 183-187.	1.8	18
119	Growth and biochemical composition with emphasis on the fatty acids of <i>Tetraselmis</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 1991, 36, 21-25.	1.7	24
120	The influence of flow rate and the composition of supplied CO ₂ /air mixtures on discontinuous growth of <i>Tetraselmis</i> sp.. <i>Applied Microbiology and Biotechnology</i> , 1990, 34, 103.	1.7	6
121	Continuous culture of the marine microalga <i>Tetraselmis</i> sp. " productivity analysis. <i>Aquaculture</i> , 1990, 90, 75-84.	1.7	10
122	A new culture medium based on genetic algorithms for <i>Isochrysis galbana</i> production relevant to hatcheries. <i>Journal of Applied Phycology</i> , 0, , 1.	1.5	0