Luisa Gouveia

List of Publications by Year
in descending order

97 papers	7,038 citations	57631 44 h-index	60497 81 g-index
99 all docs	99 docs citations	99 times ranked	6175 citing authors

#	Article	IF	Citations
1	Microalgae as a raw material for biofuels production. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 269-274.	1.4	1,008
2	Comparison of microalgal biomass profiles as novel functional ingredient for food products. Algal Research, 2013, 2, 164-173.	2.4	323
3	A biorefinery from Nannochloropsis sp. microalga â€“ Extraction of oils and pigments. Production of biohydrogen from the leftover biomass. Bioresource Technology, 2013, 135, 128-136.	4.8	267
4	Pre-treatment optimization of Scenedesmus obliquus microalga for bioethanol production. Bioresource Technology, 2012, 104, 342-348.	4.8	237
5	Neochloris oleabundans UTEX #1185: a suitable renewable lipid source for biofuel production. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 821-826.	1.4	202
6	Incorporation of<i>Chlorella vulgaris</i>and<i>Spirulina maxima</i>biomass in pasta products. Part 1: Preparation and evaluation. Journal of the Science of Food and Agriculture, 2010, 90, 1656-1664.	1.7	194
7	Microalgae biomass production using wastewater: Treatment and costs. Algal Research, 2016, 16, 167-176.	2.4	193
8	Combining urban wastewater treatment with biohydrogen production â€“ An integrated microalgae-based approach. Bioresource Technology, 2015, 184, 230-235.	4.8	162
9	Supercritical carbon dioxide extraction of astaxanthin and other carotenoids from the microalga Haematococcus pluvialis. European Food Research and Technology, 2006, 223, 787-790.	1.6	151
10	Colouring ornamental fish (Cyprinus carpio and Carassius auratus) with microalgal biomass. Aquaculture Nutrition, 2003, 9, 123-129.	1.1	149
11	Effect of light on the production of bioelectricity and added-value microalgae biomass in a Photosynthetic Alga Microbial Fuel Cell. Bioresource Technology, 2014, 154, 171-177.	4.8	146
12	Chlorella vulgaris biomass used as colouring source in traditional butter cookies. Innovative Food Science and Emerging Technologies, 2007, 8, 433-436.	2.7	139
13	Scenedesmus obliquus as feedstock for biohydrogen production by Enterobacter aerogenes and Clostridium butyricum. Fuel, 2014, 117, 537-543.	3.4	136
14	Carotenoid and lipid production by the autotrophic microalga Chlorella protothecoides under nutritional, salinity, and luminosity stress conditions. Applied Microbiology and Biotechnology, 2013, 97, 1383-1393.	1.7	118
15	Isochrysis galbana and Diacronema vlkianum biomass incorporation in pasta products as PUFAâ€™s source. LWT - Food Science and Technology, 2013, 50, 312-319.	2.5	118
16	Chlorella vulgaris and Haematococcus pluvialis biomass as colouring and antioxidant in food emulsions. European Food Research and Technology, 2006, 222, 362-367.	1.6	109
17	Oil Production Towards Biofuel from Autotrophic Microalgae Semicontinuous Cultivations Monitorized by Flow Cytometry. Applied Biochemistry and Biotechnology, 2009, 159, 568-578.	1.4	109
18	Functional biscuits with PUFAâ€ï‰3 from <i>Isochrysis galbana</i>. Journal of the Science of Food and Agriculture, 2008, 88, 891-896.	1.7	108

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19	Functional food oil coloured by pigments extracted from microalgae with supercritical CO2. Food Chemistry, 2007, 101, 717-723.	4.2	102
20	Third generation biohydrogen production by Clostridium butyricum and adapted mixed cultures from Scenedesmus obliquus microalga biomass. Fuel, 2015, 153, 128-134.	3.4	98
21	Integrated microbial processes for biofuels and high value-added products: the way to improve the cost effectiveness of biofuel production. Applied Microbiology and Biotechnology, 2014, 98, 1043-1053.	1.7	95
22	Chemical and biological-based isoprene production: Green metrics. Catalysis Today, 2015, 239, 38-43.	2.2	93
23	Evolution of pigment composition in Chlorella vulgaris. Bioresource Technology, 1996, 57, 157-159.	4.8	92
24	Effect of microalgal biomass concentration and temperature on ornamental goldfish (Carassius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.1	91
25	Combining biotechnology with circular bioeconomy: From poultry, swine, cattle, brewery, dairy and urban wastewaters to biohydrogen. Environmental Research, 2018, 164, 32-38.	3.7	90
26	Bioethanol production from Scenedesmus obliquus sugars: the influence of photobioreactors and culture conditions on biomass production. Applied Microbiology and Biotechnology, 2012, 96, 555-564.	1.7	86
27	Pigmentation of gilthead seabream, Sparus aurata (L. 1875), using Chlorella vulgaris (Chlorophyta,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.9	85
28	Scenedesmus obliquus mediated brewery wastewater remediation and CO 2 biofixation for green energy purposes. Journal of Cleaner Production, 2017, 165, 1316-1327.	4.6	85
29	Relative stabilities of microalgal carotenoids in microalgal extracts, biomass and fish feed: effect of storage conditions. Innovative Food Science and Emerging Technologies, 2003, 4, 227-233.	2.7	83
30	<i>Scenedesmus obliquus</i> microalgaâ€based biorefinery â€" from brewery effluent to bioactive compounds, biofuels and biofertilizers â€" aiming at a circular bioeconomy. Biofuels, Bioproducts and Biorefining, 2019, 13, 1169-1186.	1.9	81
31	Utilization of natural and synthetic sources of carotenoids in the skin pigmentation of gilthead seabream (Sparus aurata). European Food Research and Technology, 2002, 214, 287-293.	1.6	77
32	Microalgae as a Feedstock for Biofuels. , 2011, , .		72
33	A biorefinery from Nannochloropsis sp. microalga â€" Energy and CO2 emission and economic analyses. Bioresource Technology, 2013, 138, 235-244.	4.8	68
34	Fat mimetic capacity of Chlorella vulgaris biomass in oil-in-water food emulsions stabilized by pea protein. Food Research International, 2005, 38, 961-965.	2.9	67
35	Biological hydrogen production by Anabaena sp. â€" Yield, energy and CO2 analysis including fermentative biomass recovery. International Journal of Hydrogen Energy, 2012, 37, 179-190.	3.8	67
36	Microalgae biomass as an additional ingredient of gluten-free bread: Dough rheology, texture quality and nutritional properties. Algal Research, 2020, 50, 101998.	2.4	65

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37	Algae as Food in Europe: An Overview of Species Diversity and Their Application. Foods, 2022, 11, 1871.	1.9	63
38	Aquaculture wastewater treatment through microalgal. Biomass potential applications on animal feed, agriculture, and energy. Journal of Environmental Management, 2021, 286, 112187.	3.8	60
39	Biostimulant Potential of Scenedesmus obliquus Grown in Brewery Wastewater. Molecules, 2020, 25, 664.	1.7	59
40	Supercritical carbon dioxide extraction of bioactive compounds from microalgae and volatile oils from aromatic plants. Journal of Supercritical Fluids, 2011, 60, 21-27.	1.6	58
41	Scale-up and large-scale production of Tetraselmis sp. CTP4 (Chlorophyta) for CO2 mitigation: from an agar plate to 100-m3 industrial photobioreactors. Scientific Reports, 2018, 8, 5112.	1.6	57
42	Nutritional Potential and Toxicological Evaluation of Tetraselmis sp. CTP4 Microalgal Biomass Produced in Industrial Photobioreactors. Molecules, 2019, 24, 3192.	1.7	57
43	Novel foods with microalgal ingredients â€“ Effect of gel setting conditions on the linear viscoelasticity of Spirulina and Haematococcus gels. Journal of Food Engineering, 2012, 110, 182-189.	2.7	54
44	Microalgae â€“ source of natural bioactive molecules as functional ingredients. Food Science and Technology Bulletin, 2010, 7, 21-37.	0.5	50
45	Green metrics evaluation of isoprene production by microalgae and bacteria. Green Chemistry, 2013, 15, 2854-2864.	4.6	47
46	Biostimulant and biopesticide potential of microalgae growing in piggery wastewater. Environmental Advances, 2021, 4, 100062.	2.2	47
47	Lipid production by Phaeodactylum tricornutum. Bioresource Technology, 1991, 38, 115-119.	4.8	44
48	Biohydrogen production from microalgal biomass: Energy requirement, CO2 emissions and scale-up scenarios. Bioresource Technology, 2013, 144, 156-164.	4.8	44
49	Isolation of a euryhaline microalgal strain, Tetraselmis sp. CTP4, as a robust feedstock for biodiesel production. Scientific Reports, 2016, 6, 35663.	1.6	44
50	Production, Preparation and Characterization of Microalgae-Based Biopolymer as a Potential Bioactive Film. Coatings, 2020, 10, 120.	1.2	43
51	Title is missing!. Aquaculture International, 1998, 6, 269-279.	1.1	41
52	<i>Spirulina maxima</i>and<i>Diacronema vlkianum</i>microalgae in vegetable gelled desserts. Nutrition and Food Science, 2008, 38, 492-501.	0.4	41
53	Biohydrogen production by Anabaena sp. PCC 7120 wild-type and mutants under different conditions: Light, nickel, propane, carbon dioxide and nitrogen. Biomass and Bioenergy, 2011, 35, 4426-4434.	2.9	41
54	Energy requirement and CO2 emissions of bioH2 production from microalgal biomass. Biomass and Bioenergy, 2013, 49, 249-259.	2.9	39

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55	Fermentative hydrogen production from microalgal biomass by a single strain of bacterium Enterobacter aerogenes â€" Effect of operational conditions and fermentation kinetics. Renewable Energy, 2018, 119, 203-209.	4.3	39
56	Microalgae-mediated brewery wastewater treatment: effect of dilution rate on nutrient removal rates, biomass biochemical composition, and cell physiology. Journal of Applied Phycology, 2018, 30, 1583-1595.	1.5	38
57	Microalgae biomass interaction in biopolymer gelled systems. Food Hydrocolloids, 2011, 25, 817-825.	5.6	37
58	A symbiotic gas exchange between bioreactors enhances microalgal biomass and lipid productivities: taking advantage of complementary nutritional modes. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 909-917.	1.4	36
59	Production and storage of biohydrogen during sequential batch fermentation of Spirogyra hydrolyzate by Clostridium butyricum. Energy, 2015, 88, 528-536.	4.5	34
60	Use ofChlorella vulgarisin Rainbow Trout,Oncorhynchus mykiss, Diets to Enhance Muscle Pigmentation. Journal of Applied Aquaculture, 1997, 7, 61-70.	0.7	33
61	Supercritical Extraction of Lycopene from Tomato Industrial Wastes with Ethane. Molecules, 2012, 17, 8397-8407.	1.7	33
62	New at-line flow cytometric protocols for determining carotenoid content and cell viability during Rhodosporidium toruloides NCYC 921 batch growth. Process Biochemistry, 2014, 49, 554-562.	1.8	33
63	Evaluation of the simultaneous production of lutein and lipids using a vertical alveolar panel bioreactor for three Chlorella species. Algal Research, 2014, 6, 218-222.	2.4	33
64	Effect of temperature on Î±-tocopherol, fatty acid profile, and pigments of Diacronema vlkianum (Haptophyceae). Aquaculture International, 2009, 17, 391-399.	1.1	32
65	Potential use of a microalga (Chlorella vulgaris) in the pigmentation of rainbow trout (Oncorhynchus mykiss) muscle. Zeitschrift Fur Lebensmittel-Untersuchung Und -Forschung, 1996, 202, 75-79.	0.7	31
66	A circular approach for landfill leachate treatment: Chemical precipitation with biomass ash followed by bioremediation through microalgae. Journal of Environmental Chemical Engineering, 2021, 9, 105187.	3.3	31
67	Eicosapentaenoic acid-rich biomass production by the microalga Phaeodactylum tricornutum in a continuous-flow reactor. Bioresource Technology, 1996, 55, 83-88.	4.8	29
68	Incorporation of defatted microalgal biomass (Tetraselmis sp. CTP4) at the expense of soybean meal as a feed ingredient for juvenile gilthead seabream (Sparus aurata). Algal Research, 2020, 47, 101869.	2.4	29
69	<i>Scenedesmus obliquus</i> in poultry wastewater bioremediation. Environmental Technology (United Kingdom), 2019, 40, 3735-3744.	1.2	24
70	Enhancement of fermentative hydrogen production from Spirogyra sp. by increased carbohydrate accumulation and selection of the biomass pretreatment under a biorefinery model. Journal of Bioscience and Bioengineering, 2018, 126, 226-234.	1.1	22
71	Microalgae as a Feedstock for Biofuels. , 2011, , 1-69.		21
72	Microalgal Systems for Wastewater Treatment: Technological Trends and Challenges towards Waste Recovery. Energies, 2021, 14, 8112.	1.6	21

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73	Life cycle assessment of pilot and real scale photosynthetic biogas upgrading units. Algal Research, 2019, 44, 101668.	2.4	20
74	CO₂ utilization in the production of biomass and biocompounds by three different microalgae. Engineering in Life Sciences, 2017, 17, 1126-1135.	2.0	19
75	Pyrolysis of Scenedesmus obliquus Biomass Following the Treatment of Different Wastewaters. Bioenergy Research, 2020, 13, 896-906.	2.2	16
76	Insights on the safety of carotenogenic Chlorella vulgaris in rodents. Algal Research, 2013, 2, 409-415.	2.4	14
77	Combining Microalgae-Based Wastewater Treatment with Biofuel and Bio-Based Production in the Frame of a Biorefinery. Grand Challenges in Biology and Biotechnology, 2019, , 319-369.	2.4	14
78	Low Indirect Land Use Change (ILUC) Energy Crops to Bioenergy and Biofuelsâ€"A Review. Energies, 2022, 15, 4348.	1.6	14
79	Evaluation of microalgae as bioremediation agent for poultry effluent and biostimulant for germination. Environmental Technology and Innovation, 2021, 24, 102048.	3.0	13
80	Optimization of Biochar Production by Co-Torrefaction of Microalgae and Lignocellulosic Biomass Using Response Surface Methodology. Energies, 2021, 14, 7330.	1.6	11
81	Using flow cytometry to monitor the stress response of yeast and microalgae populations in mixed cultures developed in brewery effluents. Journal of Applied Phycology, 2020, 32, 3687-3701.	1.5	10
82	Impact of High-Pressure Homogenization on the Cell Integrity of Tetradesmus obliquus and Seed Germination. Molecules, 2022, 27, 2275.	1.7	9
83	Evaluation of Marine Microalga Diacronema vlkianum Biomass Fatty Acid Assimilation in Wistar Rats. Molecules, 2017, 22, 1097.	1.7	8
84	Green approach for the valorization of microalgae Tetradesmus obliquus. Sustainable Chemistry and Pharmacy, 2021, 24, 100556.	1.6	8
85	Primary brewery wastewater as feedstock for the yeast Rhodosporidium toruloides and the microalga Tetradesmus obliquus mixed cultures with lipid production. Process Biochemistry, 2022, 113, 71-86.	1.8	8
86	Bioremediation of cattle manure using microalgae after pre-treatment with biomass ash. Bioresource Technology Reports, 2021, 14, 100681.	1.5	7
87	Valorisation of microalga Tetradesmus obliquus grown in brewery wastewater using subcritical water extraction towards zero waste. Chemical Engineering Journal, 2022, 437, 135324.	6.6	7
88	Biomass Conversion Technologies: Biological/Biochemical Conversion of Biomass. Lecture Notes in Energy, 2017, , 99-111.	0.2	6
89	Future perspectives of microalgae in the food industry. , 2021, , 387-433.		6
90	Nannochloropsis oceanica harvested using electrocoagulation with alternative electrodes â€" An innovative approach on potential biomass applications. Bioresource Technology, 2022, 344, 126222.	4.8	6

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91	Rhodosporidium toruloides and Tetradesmus obliquus Populations Dynamics in Symbiotic Cultures, Developed in Brewery Wastewater, for Lipid Production. Current Microbiology, 2022, 79, 40.	1.0	6
92	Exploring Different Pretreatment Methodologies for Allowing Microalgae Growth in Undiluted Piggery Wastewater. Agronomy, 2022, 12, 580.	1.3	6
93	Microalgal biorefineries. , 2020, , 771-798.		5
94	Solar Pond devices: free energy or bioreactors for Artemia biomass production?. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1035-1045.	1.4	3
95	From Tiny Microalgae to Huge Biorefineries. , 2015, , 55-76.		2
96	Supercritical CO2 Extract from Microalga Tetradesmus obliquus: The Effect of High-Pressure Pre-Treatment. Molecules, 2022, 27, 3883.	1.7	2
97	Nannochloropsis oceanica biomass enriched by electrocoagulation harvesting with promising agricultural applications. Bioresource Technology Reports, 2022, 17, 100979.	1.5	1