

Antonio De León-Rodríguez

List of Publications by Year in descending order

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95
papers

3,089
citations

172207

29
h-index

168136

53
g-index

97
all docs

97
docs citations

97
times ranked

3800
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive Peptides in Amaranth (<i>Amaranthus hypochondriacus</i>) Seed. Journal of Agricultural and Food Chemistry, 2008, 56, 1233-1240.	2.4	235
2	Fermentative hydrogen production in batch experiments using lactose, cheese whey and glucose: Influence of initial substrate concentration and pH. International Journal of Hydrogen Energy, 2008, 33, 4989-4997.	3.8	193
3	Continuous biohydrogen production using cheese whey: Improving the hydrogen production rate. International Journal of Hydrogen Energy, 2009, 34, 4296-4304.	3.8	165
4	Amaranth (<i>Amaranthus hypochondriacus</i>) as an alternative crop for sustainable food production: Phenolic acids and flavonoids with potential impact on its nutraceutical quality. Journal of Cereal Science, 2009, 49, 117-121.	1.8	144
5	Fermentative biohydrogen production: trends and perspectives. Reviews in Environmental Science and Biotechnology, 2008, 7, 27-45.	3.9	135
6	Proximate composition, phenolic acids, and flavonoids characterization of commercial and wild nopal (<i>Opuntia</i> spp.). Journal of Food Composition and Analysis, 2010, 23, 525-532.	1.9	121
7	Characterization of Volatile Compounds of Mezcal, an Ethnic Alcoholic Beverage Obtained from <i>Agave salmiana</i> . Journal of Agricultural and Food Chemistry, 2006, 54, 1337-1341.	2.4	100
8	Directing the Self-assembly of Tumour Spheroids by Bioprinting Cellular Heterogeneous Models within Alginate/Gelatin Hydrogels. Scientific Reports, 2017, 7, 4575.	1.6	89
9	Tryptic amaranth glutelin digests induce endothelial nitric oxide production through inhibition of ACE: Antihypertensive role of amaranth peptides. Nitric Oxide - Biology and Chemistry, 2010, 23, 106-111.	1.2	79
10	Simultaneous production of bioethanol and biohydrogen by <i>Escherichia coli</i> WDHL using wheat straw hydrolysate as substrate. Fuel, 2017, 188, 19-27.	3.4	76
11	Engineering bioprintable alginate/gelatin composite hydrogels with tunable mechanical and cell adhesive properties to modulate tumor spheroid growth kinetics. Biofabrication, 2020, 12, 015024.	3.7	67
12	Identification of yeast and bacteria involved in the mezcal fermentation of <i>Agave salmiana</i> . Letters in Applied Microbiology, 2008, 46, 626-630.	1.0	66
13	Experimental Densities and Excess Volumes for Binary Mixtures Containing Propionic Acid, Acetone, and Water from 283.15 K to 323.15 K at Atmospheric Pressure. Journal of Chemical & Engineering Data, 2003, 48, 1425-1431.	1.0	62
14	Proteomic analysis of differentially accumulated proteins during ripening and in response to 1-MCP in papaya fruit. Journal of Proteomics, 2012, 75, 2160-2169.	1.2	62
15	Hydrogen production by <i>Escherichia coli</i> $\hat{p}^{\text{hycA}}\hat{p}^{\text{lacI}}$ using cheese whey as substrate. International Journal of Hydrogen Energy, 2010, 35, 491-499.	3.8	61
16	Estimation of hydrogen production in genetically modified <i>E. coli</i> fermentations using an artificial neural network. International Journal of Hydrogen Energy, 2010, 35, 13186-13192.	3.8	60
17	Optimization of culture conditions for a synthetic gene expression in <i>Escherichia coli</i> using response surface methodology: The case of human interferon beta. New Biotechnology, 2007, 24, 217-222.	2.7	57
18	Amaranth lunasin-like peptide internalizes into the cell nucleus and inhibits chemical carcinogen-induced transformation of NIH-3T3 cells. Peptides, 2010, 31, 1635-1642.	1.2	56

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19	Water stress induces up-regulation of DOF1 and MIF1 transcription factors and down-regulation of proteins involved in secondary metabolism in amaranth roots (<i>Amaranthus hypochondriacus</i>) Tj ETQq1 1 0.784314 rg5T /Overbo	1.3	47
20	Phthalates and Bisphenols Migration in Mexican Food Cans and Plastic Food Containers. Bulletin of Environmental Contamination and Toxicology, 2011, 86, 627-631.	1.3	47
21	The buffer composition impacts the hydrogen production and the microbial community composition in non-axenic cultures. Biomass and Bioenergy, 2011, 35, 3174-3181.	2.9	47
22	Functional and Rheological Properties of Amaranth Albumins Extracted From Two Mexican Varieties. Plant Foods for Human Nutrition, 2004, 59, 169-174.	1.4	44
23	Fermentation of lactose and its constituent sugars by Escherichia coli WDHL: Impact on hydrogen production. Bioresource Technology, 2012, 111, 180-184.	4.8	44
24	Biohydrogen production from mixtures of agro-industrial wastes: Chemometric analysis, optimization and scaling up. Energy, 2018, 159, 32-41.	4.5	43
25	Periplasmic penicillin G acylase activity in recombinant Escherichia coli cells permeabilized with organic solvents. Process Biochemistry, 2003, 39, 301-305.	1.8	36
26	Expansion of human hematopoietic stem cells for transplantation: trends and perspectives. Cytotechnology, 2008, 56, 151-160.	0.7	33
27	Co-production of ethanol-hydrogen by genetically engineered Escherichia coli in sustainable biorefineries for lignocellulosic ethanol production. Chemical Engineering Journal, 2021, 406, 126829.	6.6	32
28	Improvement of hydrogen production by metabolic engineering of Escherichia coli: Modification on both the PTS system and central carbon metabolism. International Journal of Hydrogen Energy, 2020, 45, 5687-5696.	3.8	31
29	Proteomic Analysis of Amaranth (<i>Amaranthus hypochondriacus</i> L.) Leaves under Drought Stress. International Journal of Plant Sciences, 2009, 170, 990-998.	0.6	30
30	Isolation and phylogenetic classification of culturable psychrophilic prokaryotes from the Collins glacier in the Antarctica. Folia Microbiologica, 2011, 56, 209-214.	1.1	30
31	Effects of dissolved oxygen tension on the production of recombinant penicillin acylase in Escherichia coli. Enzyme and Microbial Technology, 2003, 33, 689-697.	1.6	29
32	Optimization of fermentation conditions for the production of the mezcal from Agave salmiana using response surface methodology. Chemical Engineering and Processing: Process Intensification, 2008, 47, 76-82.	1.8	28
33	Production of penicillin acylase by a recombinant Escherichia coli using cheese whey as substrate and inducer. New Biotechnology, 2006, 23, 299-305.	2.7	27
34	Periplasmic expression and recovery of human interferon gamma in Escherichia coli. Protein Expression and Purification, 2008, 59, 169-174.	0.6	27
35	Nitrogen sources impact hydrogen production by Escherichia coli using cheese whey as substrate. New Biotechnology, 2013, 30, 585-590.	2.4	27
36	Escherichia coli and its application to biohydrogen production. Reviews in Environmental Science and Biotechnology, 2015, 14, 123-135.	3.9	27

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37	Bioprintable Alginate/Gelatin Hydrogel 3D & In Vitro Model Systems Induce Cell Spheroid Formation. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	27
38	Overexpression, purification and characterization of the <i>Trichoderma atroviride</i> endochitinase, Ech42, in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2007, 55, 183-188.	0.6	26
39	Identification of calcium stress induced genes in amaranth leaves through suppression subtractive hybridization. <i>Journal of Plant Physiology</i> , 2011, 168, 2102-2109.	1.6	26
40	Biohydrogen production from cheese whey powder by <i>Enterobacter asburiae</i> : Effect of operating conditions on hydrogen yield and chemometric study of the fermentative metabolites. <i>Energy Reports</i> , 2020, 6, 1170-1180.	2.5	26
41	Modification of Solubility and Heat-Induced Gelation of Amaranth 11S Globulin by Protein Engineering. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3509-3516.	2.4	25
42	Comparative proteomic analysis of amaranth mesophyll and bundle sheath chloroplasts and their adaptation to salt stress. <i>Journal of Plant Physiology</i> , 2014, 171, 1423-1435.	1.6	24
43	An environment-economic analysis of hydrogen production using advanced biorefineries and its comparison with conventional technologies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27994-28006.	3.8	24
44	Biohydrogen production using psychrophilic bacteria isolated from Antarctica. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7586-7592.	3.8	22
45	Biohydrogen production by the psychrophilic G088 strain using single carbohydrates as substrate. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8092-8100.	3.8	21
46	Morphological, proximal composition, and bioactive compounds characterization of wild and cultivated amaranth (<i>Amaranthus</i> spp.) species. <i>Journal of Cereal Science</i> , 2018, 83, 222-228.	1.8	21
47	Biohydrogen production by vermicompost-associated microorganisms using agro industrial wastes as substrate. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 9856-9865.	3.8	19
48	Biodegradation of diisononyl phthalate by a consortium of saline soil bacteria: optimisation and kinetic characterisation. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3369-3380.	1.7	19
49	Phthalates affect the in vitro expansion of human hematopoietic stem cell. <i>Cytotechnology</i> , 2019, 71, 553-561.	0.7	18
50	Scale-up of hydrogen and ethanol co-production by an engineered <i>Escherichia coli</i> . <i>Fuel</i> , 2021, 300, 121002.	3.4	18
51	Online monitoring of Mezcal fermentation based on redox potential measurements. <i>Bioprocess and Biosystems Engineering</i> , 2009, 32, 47-52.	1.7	16
52	Expansion of Human Hematopoietic Cells from Umbilical Cord Blood Using Roller Bottles in CO ₂ and CO ₂ -Free Atmosphere. <i>Stem Cells and Development</i> , 2011, 20, 593-598.	1.1	14
53	Coproduction of hydrogen, ethanol and 2,3-butanediol from agro-industrial residues by the Antarctic psychrophilic GAOF bacterium. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26179-26187.	3.8	14
54	Replicative and integrative plasmids for production of human interferon gamma in <i>Bacillus subtilis</i> . <i>Plasmid</i> , 2010, 64, 170-176.	0.4	13

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55	Optimization of hydrogen production by the psychrophilic strain G088. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3630-3640.	3.8	13
56	Galactose induces the expression of penicillin acylase under control of the lac promoter in recombinant <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2003, 25, 1397-1402.	1.1	12
57	Optimization of human interferon gamma production in <i>Escherichia coli</i> by response surface methodology. <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 7-13.	1.4	12
58	Autodisplay of alpha amylase from <i>Bacillus megaterium</i> in <i>E. coli</i> for the bioconversion of starch into hydrogen, ethanol and succinic acid. <i>Enzyme and Microbial Technology</i> , 2020, 134, 109477.	1.6	12
59	Optimization of biohydrogen production by the novel psychrophilic strain N92 collected from the Antarctica. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13798-13809.	3.8	11
60	Maximizing Hydrogen Production and Substrate Consumption by <i>Escherichia coli</i> WDHL in Cheese Whey Fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 704-715.	1.4	10
61	2D-DIGE as a strategy to identify serum biomarkers in Mexican patients with Type-2 diabetes with different body mass index. <i>Scientific Reports</i> , 2017, 7, 46536.	1.6	10
62	Microbiota of edible <i>Liometopum apiculatum</i> ant larvae reveals potential functions related to their nutritional value. <i>Food Research International</i> , 2018, 109, 497-505.	2.9	10
63	Heterologous expression of a novel psychrophilic Cu/Zn superoxide dismutase from <i>Deschampsia antarctica</i> . <i>Process Biochemistry</i> , 2009, 44, 969-974.	1.8	9
64	Hox B4 as potential marker of non-differentiated cells in human cervical cancer cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 2012, 138, 293-300.	1.2	9
65	Novel Fusion Protein Derived from Vasostatin 30 and Vasoinhibin II-14.1 Potently Inhibits Coronary Endothelial Cell Proliferation. <i>Molecular Biotechnology</i> , 2013, 54, 920-929.	1.3	9
66	Heterologous Expression and Characterization of an Alcohol Dehydrogenase from the Archeon <i>Thermoplasma acidophilum</i> . <i>Molecular Biotechnology</i> , 2009, 42, 61-67.	1.3	8
67	Coupling aerobic biodegradation of methanol vapors with heterologous protein expression of endochitinase Ech42 from <i>Trichoderma atroviride</i> in <i>Pichia pastoris</i> . <i>Bioresource Technology</i> , 2010, 101, 9661-9665.	4.8	8
68	Expression and Characterization of a Recombinant Psychrophilic Cu/Zn Superoxide Dismutase from <i>Deschampsia antarctica</i> E. Desv. [Poaceae]. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 3287-3296.	1.4	8
69	Sorbitol electro-oxidation reaction on sub10Åm PtAu bimetallic nanoparticles. <i>Electrochimica Acta</i> , 2020, 353, 136593.	2.6	8
70	Diminution of migration of phthalic acid esters in tequila beverage by the year of production. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2020, 55, 148-154.	0.7	7
71	Comparison of <i>Moringa oleifera</i> oils extracted with supercritical fluids and hexane and characterization of seed storage proteins in defatted flour. <i>Food Bioscience</i> , 2021, 40, 100830.	2.0	7
72	Analysis of human serum from women affected by cervical lesions. <i>Journal of Experimental Therapeutics and Oncology</i> , 2008, 7, 65-72.	0.5	7

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73	Modified penicillin acylase signal peptide allows the periplasmic production of soluble human interferon- β but not of soluble human interleukin-2 by the Tat pathway in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2007, 29, 1369-1374.	1.1	6
74	Effects of Nitrogen-Doped Multiwall Carbon Nanotubes on Murine Fibroblasts. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	6
75	Biodegradation of recalcitrant compounds and phthalates by culturable bacteria isolated from <i>Liometopum apiculatum</i> microbiota. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 73.	1.7	6
76	Influence of the growing conditions on the flavonoids and phenolic acids accumulation in amaranth (<i>Amaranthus hypochondriacus</i> L.) leaves.. <i>Terra Latinoamericana</i> , 2019, 37, 449.	0.3	6
77	Biochemical and Molecular Characterization of a Novel Cu/Zn Superoxide Dismutase from <i>Amaranthus hypochondriacus</i> L.: an Intrinsically Disordered Protein. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 2328-2345.	1.4	5
78	Electrocatalytic oxidation of sorbitol on PdAu/C bimetallic nanocatalysts. <i>Fuel</i> , 2022, 314, 122788.	3.4	5
79	Design and characterization of a one-compartment scale-down system for simulating dissolved oxygen tension gradients. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 950-956.	1.6	4
80	Optimization of Bioethanol Production from Coffee Mucilage. <i>BioResources</i> , 2015, 10, .	0.5	4
81	Constitutive expression of the active fragment of human vasostatin Vs30 in <i>Pichia pastoris</i> SMD1168H. <i>Protein Expression and Purification</i> , 2018, 144, 40-45.	0.6	4
82	Diisononyl Phthalate Differentially Affects Sirtuin Expression in the HepG2 Cell Line. <i>Chemical Research in Toxicology</i> , 2019, 32, 1863-1870.	1.7	4
83	Biocompatibility of nitrogen-doped multiwalled carbon nanotubes with murine fibroblasts and human hematopoietic stem cells. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	4
84	Autodisplay of an endo-1,4-xylanase from <i>Clostridium cellulovorans</i> in <i>Escherichia coli</i> for xylans degradation. <i>Enzyme and Microbial Technology</i> , 2021, 149, 109834.	1.6	4
85	Proteomic analysis of chemically transformed NIH-3T3 cells reveals novel mechanisms of action of amaranth lunasin-like peptide. <i>Food Research International</i> , 2022, 157, 111374.	2.9	4
86	Expression and Purification of Rotavirus Proteins NSP5 and NSP6 in <i>Escherichia coli</i> . <i>Cell Biochemistry and Biophysics</i> , 2006, 44, 336-341.	0.9	3
87	Analysis of phthalic acid, bisphenol A and bisphenol A dimethacrylate in Mexican food cans by HPLC with evaporative light scattering detector. <i>Acta Alimentaria</i> , 2013, 42, 229-235.	0.3	3
88	Effect of Graphene Oxide on Bacteria and Peripheral Blood Mononuclear Cells. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 423-430.	0.7	3
89	Multi-walled carbon nanotubes enhance the genetic transformation of <i>Bifidobacterium longum</i> . <i>Carbon</i> , 2021, 184, 902-909.	5.4	3
90	Identification of differential expressed transcripts in cervical cancer of Mexican patients. <i>Tumor Biology</i> , 2011, 32, 561-568.	0.8	2

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91	Indole modifies the central carbon flux in the anaerobic metabolism of Escherichia coli: application to the production of hydrogen and other metabolites. <i>New Biotechnology</i> , 2016, 33, 868-873.	2.4	1
92	Production and optimization of a vasostatin-30 and vaso-inhibin fusion protein that inhibits tumor angiogenesis and dissemination of breast cancer cells in a zebrafish model. <i>Process Biochemistry</i> , 2022, 119, 1-12.	1.8	1
93	HLA-Cw and TCR α^2 analysis in twenty Mexican patients with psoriasis. <i>Open Medicine (Poland)</i> , 2011, 6, 442-448.	0.6	0
94	Novel technologies in bioactive peptides production and stability. , 2021, , 47-74.		0
95	Optimization of the Biohydrogen Production by Anaerobic Granular Sludge Using Mixtures of Wheat Straw Hydrolysate and Cheese Whey as Substrates. , 0, ,		0