

Antonio De León-Rodríguez

List of Publications by Year in descending order

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95
papers

3,089
citations

172386

29
h-index

168321

53
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97
all docs

97
docs citations

97
times ranked

3800
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalytic oxidation of sorbitol on PdAu/C bimetallic nanocatalysts. <i>Fuel</i> , 2022, 314, 122788.	3.4	5
2	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
3	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
4	Co-production of ethanol-hydrogen by genetically engineered <i>Escherichia coli</i> in sustainable biorefineries for lignocellulosic ethanol production. <i>Chemical Engineering Journal</i> , 2021, 406, 126829.	6.6	32
5	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
6	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
7	Scale-up of hydrogen and ethanol co-production by an engineered <i>Escherichia coli</i> . <i>Fuel</i> , 2021, 300, 121002.	3.4	18
8	Autodisplay of an endo-1,4- β -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
9	Multi-walled carbon nanotubes enhance the genetic transformation of <i>Bifidobacterium longum</i> . <i>Carbon</i> , 2021, 184, 902-909.	5.4	3
10	Novel technologies in bioactive peptides production and stability. , 2021, , 47-74.		0
11	Improvement of hydrogen production by metabolic engineering of <i>Escherichia coli</i> : Modification on both the PTS system and central carbon metabolism. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5687-5696.	3.8	31
12	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
13	Engineering bioprintable alginate/gelatin composite hydrogels with tunable mechanical and cell adhesive properties to modulate tumor spheroid growth kinetics. <i>Biofabrication</i> , 2020, 12, 015024.	3.7	67
14	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
15	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
16	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
17	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
18	Sorbitol electro-oxidation reaction on sub-10 nm PtAu bimetallic nanoparticles. <i>Electrochimica Acta</i> , 2020, 353, 136593.	2.6	8

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19	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
20	Diisononyl Phthalate Differentially Affects Sirtuin Expression in the HepG2 Cell Line. <i>Chemical Research in Toxicology</i> , 2019, 32, 1863-1870.	1.7	4
21	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
22	Phthalates affect the in vitro expansion of human hematopoietic stem cell. <i>Cytotechnology</i> , 2019, 71, 553-561.	0.7	18
23	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
24	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
25	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
26	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
27	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
28	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
29	Bioprintable Alginate/Gelatin Hydrogel 3D & In Vitro Model Systems Induce Cell Spheroid Formation. <i>Journal of Visualized Experiments</i> , 2018, .	0.2	27
30	Biohydrogen production from mixtures of agro-industrial wastes: Chemometric analysis, optimization and scaling up. <i>Energy</i> , 2018, 159, 32-41.	4.5	43
31	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
32	Directing the Self-assembly of Tumour Spheroids by Bioprinting Cellular Heterogeneous Models within Alginate/Gelatin Hydrogels. <i>Scientific Reports</i> , 2017, 7, 4575.	1.6	89
33	Simultaneous production of bioethanol and biohydrogen by <i>Escherichia coli</i> WDHL using wheat straw hydrolysate as substrate. <i>Fuel</i> , 2017, 188, 19-27.	3.4	76
34	Optimization of hydrogen production by the psychrophilic strain G088. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3630-3640.	3.8	13
35	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
36	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

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37	Indole modifies the central carbon flux in the anaerobic metabolism of <i>Escherichia coli</i> : application to the production of hydrogen and other metabolites. <i>New Biotechnology</i> , 2016, 33, 868-873.	2.4	1
38	Optimization of Bioethanol Production from Coffee Mucilage. <i>BioResources</i> , 2015, 10, .	0.5	4
39	Effects of Nitrogen-Doped Multiwall Carbon Nanotubes on Murine Fibroblasts. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	6
40	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
41	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
42	<i>Escherichia coli</i> and its application to biohydrogen production. <i>Reviews in Environmental Science and Biotechnology</i> , 2015, 14, 123-135.	3.9	27
43	Biohydrogen production using psychrophilic bacteria isolated from Antarctica. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7586-7592.	3.8	22
44	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
45	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
46	Nitrogen sources impact hydrogen production by <i>Escherichia coli</i> using cheese whey as substrate. <i>New Biotechnology</i> , 2013, 30, 585-590.	2.4	27
47	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
48	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
49	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
50	Proteomic analysis of differentially accumulated proteins during ripening and in response to 1-MCP in papaya fruit. <i>Journal of Proteomics</i> , 2012, 75, 2160-2169.	1.2	62
51	Fermentation of lactose and its constituent sugars by <i>Escherichia coli</i> WDHL: Impact on hydrogen production. <i>Bioresource Technology</i> , 2012, 111, 180-184.	4.8	44
52	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
53	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
54	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

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55	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 rg58 /Over	1.0	31
56	HLA-Cw and TCR α 2 analysis in twenty Mexican patients with psoriasis. Open Medicine (Poland), 2011, 6, 442-448.	0.6	0
57	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
58	Isolation and phylogenetic classification of culturable psychrophilic prokaryotes from the Collins glacier in the Antarctica. Folia Microbiologica, 2011, 56, 209-214.	1.1	30
59	Identification of differential expressed transcripts in cervical cancer of Mexican patients. Tumor Biology, 2011, 32, 561-568.	0.8	2
60	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
61	Replicative and integrative plasmids for production of human interferon gamma in Bacillus subtilis. Plasmid, 2010, 64, 170-176.	0.4	13
62	Design and characterization of a one-compartment scale-down system for simulating dissolved oxygen tension gradients. Journal of Chemical Technology and Biotechnology, 2010, 85, 950-956.	1.6	4
63	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
64	Hydrogen production by <i>Escherichia coli</i> γ hycA γ lacl using cheese whey as substrate. International Journal of Hydrogen Energy, 2010, 35, 491-499.	3.8	61
65	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
66	Coupling aerobic biodegradation of methanol vapors with heterologous protein expression of endochitinase Ech42 from <i>Trichoderma atroviride</i> in <i>Pichia pastoris</i> . Bioresource Technology, 2010, 101, 9661-9665.	4.8	8
67	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
68	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
69	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
70	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
71	Online monitoring of Mezcal fermentation based on redox potential measurements. Bioprocess and Biosystems Engineering, 2009, 32, 47-52.	1.7	16
72	Heterologous expression of a novel psychrophilic Cu/Zn superoxide dismutase from <i>Deschampsia antarctica</i> . Process Biochemistry, 2009, 44, 969-974.	1.8	9

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73	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
74	Continuous biohydrogen production using cheese whey: Improving the hydrogen production rate. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4296-4304.	3.8	165
75	Expansion of human hematopoietic stem cells for transplantation: trends and perspectives. <i>Cytotechnology</i> , 2008, 56, 151-160.	0.7	33
76	Fermentative biohydrogen production: trends and perspectives. <i>Reviews in Environmental Science and Biotechnology</i> , 2008, 7, 27-45.	3.9	135
77	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
78	Optimization of fermentation conditions for the production of the mezcal from <i>Agave salmiana</i> using response surface methodology. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 76-82.	1.8	28
79	Fermentative hydrogen production in batch experiments using lactose, cheese whey and glucose: Influence of initial substrate concentration and pH. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4989-4997.	3.8	193
80	Bioactive Peptides in Amaranth (<i>Amaranthus hypochondriacus</i>) Seed. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1233-1240.	2.4	235
81	Identification of yeast and bacteria involved in the mezcal fermentation of <i>Agave salmiana</i> . <i>Letters in Applied Microbiology</i> , 2008, 46, 626-630.	1.0	66
82	Periplasmic expression and recovery of human interferon gamma in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2008, 59, 169-174.	0.6	27
83	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
84	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
85	Optimization of culture conditions for a synthetic gene expression in <i>Escherichia coli</i> using response surface methodology: The case of human interferon beta. <i>New Biotechnology</i> , 2007, 24, 217-222.	2.7	57
86	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
87	Characterization of Volatile Compounds of Mezcal, an Ethnic Alcoholic Beverage Obtained from <i>Agave salmiana</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1337-1341.	2.4	100
88	Production of penicillin acylase by a recombinant <i>Escherichia coli</i> using cheese whey as substrate and inducer. <i>New Biotechnology</i> , 2006, 23, 299-305.	2.7	27
89	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
90	Functional and Rheological Properties of Amaranth Albumins Extracted From Two Mexican Varieties. <i>Plant Foods for Human Nutrition</i> , 2004, 59, 169-174.	1.4	44

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91	Galactose induces the expression of penicillin acylase under control of the lac promoter in recombinant Escherichia coli. Biotechnology Letters, 2003, 25, 1397-1402.	1.1	12
92	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
93	Periplasmic penicillin G acylase activity in recombinant Escherichia coli cells permeabilized with organic solvents. Process Biochemistry, 2003, 39, 301-305.	1.8	36
94	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
95	Optimization of the Biohydrogen Production by Anaerobic Granular Sludge Using Mixtures of Wheat Straw Hydrolysate and Cheese Whey as Substrates. , 0, ,		0