Alfredo Martinez

List of Publications by Year
in descending order

115 papers	5,048 citations	109137 35 h-index	118652 62 g-index
116 all docs	116 docs citations	116 times ranked	4747 citing authors

#	Article	IF	Citations
1	Ethanol production by <i>Escherichia coli</i> from detoxified lignocellulosic teak wood hydrolysates with high concentration of phenolic compounds. Journal of Industrial Microbiology and Biotechnology, 2022, 49, .	1.4	7
2	D-Lactic acid production from Cistus ladanifer residues: Co-fermentation of pentoses and hexoses by Escherichia coli JU15. Industrial Crops and Products, 2022, 177, 114519.	2.5	11
3	Evolutionary and reverse engineering to increase Saccharomyces cerevisiae tolerance to acetic acid, acidic pH, and high temperature. Applied Microbiology and Biotechnology, 2022, 106, 383-399.	1.7	22
4	One-pot bioethanol production from brewery spent grain using the ethanologenic Escherichia coli MS04. Renewable Energy, 2022, 189, 717-725.	4.3	14
5	Single-cell protein production potential with the extremophilic red microalgae Galdieria sulphuraria: growth and biochemical characterization. Journal of Applied Phycology, 2022, 34, 1341-1352.	1.5	8
6	Growth and phycocyanin production with Galdieria sulphuraria UTEX 2919 using xylose, glucose, and corn stover hydrolysates under heterotrophy and mixotrophy. Algal Research, 2022, 65, 102752.	2.4	9
7	Limited oxygen conditions as an approach to scale-up and improve d and l-lactic acid production in mineral media and avocado seed hydrolysates with metabolically engineered Escherichia coli. Bioprocess and Biosystems Engineering, 2021, 44, 379-389.	1.7	7
8	A Review on the Synthesis, Characterization, and Modeling of Polymer Grafting. Processes, 2021, 9, 375.	1.3	33
9	Determination of the Composition of Lignocellulosic Biomasses from Combined Analyses of Thermal, Spectroscopic, and Wet Chemical Methods. Industrial & Engineering Chemistry Research, 2021, 60, 3502-3515.	1.8	11
10	The yeastGemMap: A process diagram to assist yeast systemsâ€metabolic studies. Biotechnology and Bioengineering, 2021, 118, 4800-4814.	1.7	1
11	d-lactate production from Spirulina (Arthrospira platensis) biomass using lactogenic Escherichia coli. Bioresource Technology Reports, 2020, 12, 100598.	1.5	3
12	Bioethanol from hydrolyzed Spirulina (Arthrospira platensis) biomass using ethanologenic bacteria. Bioresources and Bioprocessing, 2020, 7, .	2.0	14
13	Xyloseâ€“glucose co-fermentation to ethanol by Escherichia coli strain MS04 using single- and two-stage continuous cultures under micro-aerated conditions. Microbial Cell Factories, 2019, 18, 145.	1.9	21
14	Engineering highâ€gravity fermentations for ethanol production at elevated temperature with <i>Saccharomyces cerevisiae</i>. Biotechnology and Bioengineering, 2019, 116, 2587-2597.	1.7	33
15	Physiological and transcriptional comparison of acetate catabolism between <i>Acinetobacter schindleri</i> ACE and <i>Escherichia coli</i> JM101. FEMS Microbiology Letters, 2019, 366, .	0.7	7
16	Production of Melanins With Recombinant Microorganisms. Frontiers in Bioengineering and Biotechnology, 2019, 7, 285.	2.0	51
17	Acinetobacter baylyi ADP1 growth performance and lipid accumulation on different carbon sources. Applied Microbiology and Biotechnology, 2019, 103, 6217-6229.	1.7	26
18	Phenotypic and genomic analysis of Zymomonas mobilis ZM4 mutants with enhanced ethanol tolerance. Biotechnology Reports (Amsterdam, Netherlands), 2019, 23, e00328.	2.1	6

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19	Metabolic engineering strategies for caffeic acid production in Escherichia coli. Electronic Journal of Biotechnology, 2019, 38, 19-26.	1.2	24
20	Use of water hyacinth as a substrate for the production of filamentous fungal hydrolytic enzymes in solid-state fermentation. 3 Biotech, 2019, 9, 21.	1.1	8
21	Lactic acid production from glucose and xylose using the lactogenic Escherichia coli strain JU15: Experiments and techno-economic results. Bioresource Technology, 2019, 273, 86-92.	4.8	23
22	Growth-dependent recombinant product formation kinetics can be reproduced through engineering of glucose transport and is prone to phenotypic heterogeneity. Microbial Cell Factories, 2019, 18, 26.	1.9	13
23	Increasing pinosylvin production in Escherichia coli by reducing the expression level of the gene fabI -encoded enoyl-acyl carrier protein reductase. Electronic Journal of Biotechnology, 2018, 33, 11-16.	1.2	9
24	Comparison of Growth and Lipid Accumulation at Three Different Growth Regimes with Desmodesmus sp.. Waste and Biomass Valorization, 2018, 9, 421-427.	1.8	4
25	Technical and economic potential evaluation of the strain Escherichia coli MS04 in the ethanol production from glucose and xylose. Biochemical Engineering Journal, 2018, 140, 123-129.	1.8	12
26	Integral use of plants and their residues: the case of cocoyam (Xanthosoma sagittifolium) conversion through biorefineries at small scale. Environmental Science and Pollution Research, 2018, 25, 35949-35959.	2.7	6
27	Autohydrolysis pretreatment assessment in ethanol production from agave bagasse. Bioresource Technology, 2017, 242, 184-190.	4.8	35
28	Expression of a codon-optimized Î2-glucosidase from Cellulomonas flavigena PR-22 in Saccharomyces cerevisiae for bioethanol production from cellobiose. Archives of Microbiology, 2017, 199, 605-611.	1.0	12
29	Metabolic engineering and adaptive evolution of<i>Escherichia coli</i>KO11 for ethanol production through the Entner-Doudoroff and the pentose phosphate pathways. Journal of Chemical Technology and Biotechnology, 2017, 92, 990-996.	1.6	10
30	In Focus: Biotechnology and chemical technology for biorefineries and biofuel production. Journal of Chemical Technology and Biotechnology, 2017, 92, 897-898.	1.6	3
31	Membrane Proteomic Insights into the Physiology and Taxonomy of an Oleaginous Green Microalga. Plant Physiology, 2017, 173, 390-416.	2.3	14
32	Sequential enzymatic saccharification and fermentation of ionic liquid and organosolv pretreated agave bagasse for ethanol production. Bioresource Technology, 2017, 225, 191-198.	4.8	44
33	Heterotrophic cultivation of microalgae: production of metabolites of commercial interest. Journal of Chemical Technology and Biotechnology, 2017, 92, 925-936.	1.6	112
34	Volumetric oxygen transfer coefficient as a means of improving volumetric ethanol productivity and a criterion for scaling up ethanol production with<i>Escherichia coli</i>. Journal of Chemical Technology and Biotechnology, 2017, 92, 981-989.	1.6	13
35	Metabolic Engineering of Escherichia coli for Lactic Acid Production from Renewable Resources. , 2017, , 125-145.		3
36	Genomic and physiological characterization of a laboratory-isolated Acinetobacter schindleri ACE strain that quickly and efficiently catabolizes acetate. Microbiology (United Kingdom), 2017, 163, 1052-1064.	0.7	8

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37	Enzymatic saccharification of sugar cane bagasse by continuous xylanase and cellulase production from <i>cellulomonas flavigena</i> PRâ€22. Biotechnology Progress, 2016, 32, 321-326.	1.3	1
38	Sequential Thermochemical Hydrolysis of Corncobs and Enzymatic Saccharification of the Whole Slurry Followed by Fermentation of Solubilized Sugars to Ethanol with the Ethanologenic Strain Escherichia coli MS04. Bioenergy Research, 2016, 9, 1046-1052.	2.2	23
39	Cellulase and Xylanase Production by the Mexican Strain Talaromyces stollii LV186 and Its Application in the Saccharification of Pretreated Corn and Sorghum Stover. Bioenergy Research, 2016, 9, 1034-1045.	2.2	16
40	Production of d-lactate from sugarcane bagasse and corn stover hydrolysates using metabolic engineered Escherichia coli strains. Bioresource Technology, 2016, 220, 208-214.	4.8	24
41	Toward an understanding of lipid and starch accumulation in microalgae: A proteomic study of Neochloris oleoabundans cultivated under N-limited heterotrophic conditions. Algal Research, 2016, 20, 22-34.	2.4	23
42	Bioenergy Potential, Energy Crops, and Biofuel Production in Mexico. Bioenergy Research, 2016, 9, 981-984.	2.2	31
43	Biosynthesis of catechol melanin from glycerol employing metabolically engineered Escherichia coli. Microbial Cell Factories, 2016, 15, 161.	1.9	22
44	Engineering of a microbial coculture of Escherichia coli strains for the biosynthesis of resveratrol. Microbial Cell Factories, 2016, 15, 163.	1.9	69
45	EndoG: A novel multifunctional halotolerant glucanase and xylanase isolated from cow rumen. Journal of Molecular Catalysis B: Enzymatic, 2016, 126, 1-9.	1.8	12
46	Improved ethanol production from biomass by a rumen metagenomic DNA fragment expressed in Escherichia coli MS04 during fermentation. Applied Microbiology and Biotechnology, 2015, 99, 9049-9060.	1.7	8
47	Production of cinnamic and p-hydroxycinnamic acid from sugar mixtures with engineered Escherichia coli. Microbial Cell Factories, 2015, 14, 6.	1.9	55
48	Non-severe thermochemical hydrolysis of stover from white corn and sequential enzymatic saccharification and fermentation to ethanol. Bioresource Technology, 2015, 198, 611-618.	4.8	30
49	Heterotrophic growth of microalgae: metabolic aspects. World Journal of Microbiology and Biotechnology, 2015, 31, 1-9.	1.7	119
50	Catechol biosynthesis from glucose in Escherichia coli anthranilate-overproducer strains by heterologous expression of anthranilate 1,2-dioxygenase from Pseudomonas aeruginosa PAO1. Microbial Cell Factories, 2014, 13, 136.	1.9	24
51	Inactivation of Pyruvate Kinase or the Phosphoenolpyruvate: Sugar Phosphotransferase System Increases Shikimic and Dehydroshikimic Acid Yields from Glucose in <i>Bacillus subtilis</i>. Journal of Molecular Microbiology and Biotechnology, 2014, 24, 37-45.	1.0	21
52	Ag43-mediated display of a thermostable Î2-glucosidase in Escherichia coli and its use for simultaneous saccharification and fermentation at high temperatures. Microbial Cell Factories, 2014, 13, 106.	1.9	19
53	Enzymatic hydrolysis at high-solids loadings for the conversion of agave bagasse to fuel ethanol. Applied Energy, 2014, 113, 277-286.	5.1	133
54	Improving poly-3-hydroxybutyrate production in Escherichia coli by combining the increase in the NADPH pool and acetyl-CoA availability. Antonie Van Leeuwenhoek, 2014, 105, 687-696.	0.7	45

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55	Culturing Neochloris oleoabundans microalga in a nitrogen-limited, heterotrophic fed-batch system to enhance lipid and carbohydrate accumulation. Algal Research, 2014, 5, 61-69.	2.4	35
56	Heterotrophic growth of Neochloris oleoabundans using glucose as a carbon source. Biotechnology for Biofuels, 2013, 6, 100.	6.2	129
57	Modification of glucose import capacity in Escherichia coli: physiologic consequences and utility for improving DNA vaccine production. Microbial Cell Factories, 2013, 12, 42.	1.9	34
58	Polysaccharide hydrolysis with engineered Escherichia coli for the production of biocommodities. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 401-410.	1.4	13
59	A novel plasmid vector designed for chromosomal gene integration and expression: Use for developing a genetically stable Escherichia coli melanin production strain. Plasmid, 2013, 69, 16-23.	0.4	12
60	Metabolic and transcriptional response of Escherichia coli with a NADP+-dependent glyceraldehyde 3-phosphate dehydrogenase from Streptococcus mutans. Antonie Van Leeuwenhoek, 2013, 104, 913-924.	0.7	16
61	Metabolic engineering of Escherichia coli to optimize melanin synthesis from glucose. Microbial Cell Factories, 2013, 12, 108.	1.9	45
62	Nitrogen Limitation in Neochloris oleoabundans: A Reassessment of Its Effect on Cell Growth and Biochemical Composition. Applied Biochemistry and Biotechnology, 2013, 171, 1775-1791.	1.4	18
63	Laboratory metabolic evolution improves acetate tolerance and growth on acetate of ethanologenic Escherichia coli under non-aerated conditions in glucose-mineral medium. Applied Microbiology and Biotechnology, 2012, 96, 1291-1300.	1.7	62
64	Cell surface display of a Î^{2}-glucosidase employing the type V secretion system on ethanologenic Escherichia coli for the fermentation of cellobiose to ethanol. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1141-1152.	1.4	40
65	Engineering and adaptive evolution of Escherichia coli for d-lactate fermentation reveals GatC as a xylose transporter. Metabolic Engineering, 2012, 14, 469-476.	3.6	65
66	Physiologic Consequences of Glucose Transport and Phosphoenolpyruvate Node Modifications in <i>Bacillus subtilis</i> 168. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 177-197.	1.0	11
67	Biotechnological production of l-tyrosine and derived compounds. Process Biochemistry, 2012, 47, 1017-1026.	1.8	35
68	Production of cellulases and xylanases under catabolic repression conditions from mutant PR-22 of Cellulomonas flavigena. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 257-264.	1.4	16
69	Metabolic engineering of Escherichia coli for improving l-3,4-dihydroxyphenylalanine (l-DOPA) synthesis from glucose. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1845-1852.	1.4	52
70	Adaptive Evolution of Escherichia coli Inactivated in the Phosphotransferase System Operon Improves Co-utilization of Xylose and Glucose Under Anaerobic Conditions. Applied Biochemistry and Biotechnology, 2011, 163, 485-496.	1.4	27
71	Engineering the Escherichia coli Fermentative Metabolism. , 2010, 121, 71-107.		14
72	Characterization of cellulolytic activities of Bjerkandera adusta and Pycnoporus sanguineus on solid wheat straw medium. Electronic Journal of Biotechnology, 2009, 12, .	1.2	10

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73	ATP limitation in a pyruvate formate lyase mutant of Escherichia coli MG1655 increases glycolytic flux to d-lactate. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1057-1062.	1.4	36
74	Metabolic engineering for improving anthranilate synthesis from glucose in Escherichia coli. Microbial Cell Factories, 2009, 8, 19.	1.9	79
75	Homolactic fermentation from glucose and cellobiose using Bacillus subtilis. Microbial Cell Factories, 2009, 8, 23.	1.9	44
76	Metabolic regulation analysis of an ethanologenic Escherichia coli strain based on RT-PCR and enzymatic activities. Biotechnology for Biofuels, 2008, 1, 8.	6.2	25
77	Specific Ethanol Production Rate in Ethanologenic <i>Escherichia coli</i> Strain KO11 Is Limited by Pyruvate Decarboxylase. Journal of Molecular Microbiology and Biotechnology, 2008, 15, 55-64.	1.0	25
78	Metabolic Engineering of <i>Escherichia coli</i> for <scp>l</scp> -Tyrosine Production by Expression of Genes Coding for the Chorismate Mutase Domain of the Native Chorismate Mutase-Prephenate Dehydratase and a Cyclohexadienyl Dehydrogenase from <i>Zymomonas mobilis</i>. Applied and Environmental Microbiology, 2008, 74, 3284-3290.	1.4	60
79	Growth Recovery on Glucose under Aerobic Conditions of an <i>Escherichia coli</i> Strain Carrying a Phosphoenolpyruvate:Carbohydrate Phosphotransferase System Deletion by Inactivating <i>arcA</i> and Overexpressing the Genes Coding for Glucokinase and Galactose Permease. Journal of Molecular Microbiology and Biotechnology, 2007, 13, 105-116.	1.0	37
80	Tyrosinase from <i>Rhizobium etli</i> Is Involved in Nodulation Efficiency and Symbiosis-Associated Stress Resistance. Journal of Molecular Microbiology and Biotechnology, 2007, 13, 35-44.	1.0	41
81	The Phosphotransferase System-Dependent Sucrose Utilization Regulon in Enteropathogenic <i>Escherichia coli</i> Strains Is Located in a Variable Chromosomal Region Containing <i>iap</i> Sequences. Journal of Molecular Microbiology and Biotechnology, 2007, 13, 117-125.	1.0	5
82	Metabolic Engineering of Bacillus subtilis for Ethanol Production: Lactate Dehydrogenase Plays a Key Role in Fermentative Metabolism. Applied and Environmental Microbiology, 2007, 73, 5190-5198.	1.4	99
83	Low salt medium for lactate and ethanol production by recombinant Escherichia coli B. Biotechnology Letters, 2007, 29, 397-404.	1.1	142
84	Growth rate of a non-fermentative Escherichia coli strain is influenced by NAD+ regeneration. Biotechnology Letters, 2007, 29, 1857-1863.	1.1	1
85	Optimum melanin production using recombinant Escherichia coli. Journal of Applied Microbiology, 2006, 101, 1002-1008.	1.4	60
86	Expression of the melA gene from Rhizobium etli CFN42 in Escherichia coli and characterization of the encoded tyrosinase. Enzyme and Microbial Technology, 2006, 38, 772-779.	1.6	52
87	Role of Pyruvate Oxidase in <i>Escherichia coli</i> Strains Lacking the Phosphoenolpyruvate:Carbohydrate Phosphotransferase System. Journal of Molecular Microbiology and Biotechnology, 2004, 8, 209-221.	1.0	24
88	Characterization of bacterial diversity inPulque, a traditional Mexican alcoholic fermented beverage, as determined by 16S rDNA analysis. FEMS Microbiology Letters, 2004, 235, 273-279.	0.7	74
89	Response to different environmental stress conditions of industrial and laboratory Saccharomyces cerevisiae strains. Applied Microbiology and Biotechnology, 2004, 63, 734-741.	1.7	99
90	Characterization of bacterial diversity in pulque, a traditional Mexican alcoholic fermented beverage, as determined by 16S rDNA analysis. FEMS Microbiology Letters, 2004, 235, 273-9.	0.7	32

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91	Expression ofgalPandglkin aEscherichia coliPTS mutant restores glucose transport and increases glycolytic flux to fermentation products. Biotechnology and Bioengineering, 2003, 83, 687-694.	1.7	159
92	Metabolic profiles and aprE expression in anaerobic cultures of Bacillus subtilis using nitrate as terminal electron acceptor. Applied Microbiology and Biotechnology, 2001, 57, 379-384.	1.7	12
93	Detoxification of Dilute Acid Hydrolysates of Lignocellulose with Lime. Biotechnology Progress, 2001, 17, 287-293.	1.3	296
94	Engineering a Homo-Ethanol Pathway in Escherichia coli : Increased Glycolytic Flux and Levels of Expression of Glycolytic Genes during Xylose Fermentation. Journal of Bacteriology, 2001, 183, 2979-2988.	1.0	106
95	Effect of alcohol compounds found in hemicellulose hydrolysate on the growth and fermentation of ethanologenicEscherichia coli. , 2000, 68, 524-530.		175
96	Effects of Ca(OH)2 treatments (â€œoverlimingâ€) on the composition and toxicity of bagasse hemicellulose hydrolysates. Biotechnology and Bioengineering, 2000, 69, 526-536.	1.7	259
97	Use of UV Absorbance To Monitor Furans in Dilute Acid Hydrolysates of Biomass. Biotechnology Progress, 2000, 16, 637-641.	1.3	139
98	Effects of Ca(OH)2 treatments (â€œoverlimingâ€) on the composition and toxicity of bagasse hemicellulose hydrolysates. , 2000, 69, 526.		2
99	Biosynthetic Burden and Plasmid Burden Limit Expression of Chromosomally Integrated Heterologous Genes (pdc, adhB) in Escherichia coli. Biotechnology Progress, 1999, 15, 891-897.	1.3	50
100	Enteric Bacterial Catalysts for Fuel Ethanol Production. Biotechnology Progress, 1999, 15, 855-866.	1.3	231
101	Title is missing!. World Journal of Microbiology and Biotechnology, 1999, 15, 587-592.	1.7	14
102	Effect of selected aldehydes on the growth and fermentation of ethanologenicEscherichia coli. , 1999, 65, 24-33.		383
103	Effect of selected aldehydes on the growth and fermentation of ethanologenic Escherichia coli. , 1999, 65, 24.		3
104	Chromosomal Integration of Heterologous DNA in <i>Escherichia coli</i> with Precise Removal of Markers and Replicons Used during Construction. Journal of Bacteriology, 1999, 181, 7143-7148.	1.0	81
105	Stimulation of glucose catabolism through the pentose pathway by the absence of the two pyruvate kinase isoenzymes inEscherichia coli. , 1998, 58, 292-295.		41
106	Effect of Growth Rate on the Production of Î²-Galactosidase from Escherichia Coli in Bacillus Subtilis Using Glucose-Limited Exponentially Fedbatch Cultures. Enzyme and Microbial Technology, 1998, 22, 520-526.	1.6	22
107	Improvement of culture conditions to overproduce Î²-galactosidase from Escherichia coli in Bacillus subtilis. Applied Microbiology and Biotechnology, 1997, 47, 40-45.	1.7	22
108	A comparison of cavern development in mixing a yield stress fluid by rushton and intermig impellers. Chemical Engineering and Technology, 1996, 19, 315-323.	0.9	11

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109	Cloning of the two pyruvate kinase isoenzyme structural genes from Escherichia coli: the relative roles of these enzymes in pyruvate biosynthesis. Journal of Bacteriology, 1995, 177, 5719-5722.	1.0	104
110	Recombinant protein production in cultures of an Escherichia coli trp â˜ strain. Applied Microbiology and Biotechnology, 1993, 39, 541-546.	1.7	5
111	Efficiency of insecticidal crystal protein production in a Bacillus thuringiensis mutant with derepressed expression of the terminal oxidase aa 3 during sporulation. Applied Microbiology and Biotechnology, 1993, 39, 558-562.	1.7	7
112	Power consumption of three impeller combinations in mixing Xanthan fermentation broths. Process Biochemistry, 1992, 27, 351-365.	1.8	20
113	A new pneumatic bearing dynamometer for power input measurement in stirred tanks. Chemical Engineering and Technology, 1991, 14, 105-108.	0.9	18
114	Sparger position effect over kLa in bench and pilot stirred-tank fermentors. Journal of Bioscience and Bioengineering, 1989, 68, 71-73.	0.9	3
115	D-lactic acid production from hydrothermally pretreated, alkali delignified and enzymatically saccharified rockrose with the metabolic engineered Escherichia coli strain JU15. Biomass Conversion and Biorefinery, 0, , 1.	2.9	4