

Manuel CÃ¡novas DÃ­az

List of Publications by Year in descending order

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117
papers

3,728
citations

159585

30
h-index

182427

51
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122
all docs

122
docs citations

122
times ranked

4088
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship between lung function and exhaled volatile organic compounds in healthy infants. <i>Pediatric Pulmonology</i> , 2022, 57, 1282-1292.	2.0	6
2	Influence of Home Indoor Dampness Exposure on Volatile Organic Compounds in Exhaled Breath of Mothers and Their Infants: The NELA Birth Cohort. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6864.	2.5	1
3	Exhaled volatile organic compounds analysis in clinical pediatrics: a systematic review. <i>Pediatric Research</i> , 2021, 89, 1352-1363.	2.3	19
4	Engineering of microbial cell factories for production of plant-based natural products. , 2021, , 381-392.		1
5	Impact of the Expression System on Recombinant Protein Production in <i>Escherichia coli</i> BL21. <i>Frontiers in Microbiology</i> , 2021, 12, 682001.	3.5	42
6	Exhaled volatilome analysis as a useful tool to discriminate asthma with other coexisting atopic diseases in women of childbearing age. <i>Scientific Reports</i> , 2021, 11, 13823.	3.3	9
7	Bacterial Sirtuins Overview: An Open Niche to Explore. <i>Frontiers in Microbiology</i> , 2021, 12, 744416.	3.5	10
8	Electrocoalescence of emulsions in raffinate from the solvent extraction phase under AC electrical fields. <i>Journal of Materials Research and Technology</i> , 2020, 9, 490-497.	5.8	8
9	An ideal spacing is required for the control of Class II CRP-dependent promoters by the status of CRP K100. <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	2
10	A Compressive Review about Taxol®: History and Future Challenges. <i>Molecules</i> , 2020, 25, 5986.	3.8	148
11	Data preprocessing workflow for exhaled breath analysis by GC/MS using open sources. <i>Scientific Reports</i> , 2020, 10, 22008.	3.3	16
12	Fructose metabolism in <i>Chromohalobacter salexigens</i> : interplay between the Embden-Meyerhof-Parnas and Entner-Doudoroff pathways. <i>Microbial Cell Factories</i> , 2019, 18, 134.	4.0	10
13	Engineering protein production by rationally choosing a carbon and nitrogen source using <i>E. coli</i> BL21 acetate metabolism knockout strains. <i>Microbial Cell Factories</i> , 2019, 18, 151.	4.0	38
14	Metabolomic responses of mussel <i>Mytilus galloprovincialis</i> to fluoranthene exposure under different nutritive conditions. <i>Marine Environmental Research</i> , 2019, 144, 194-202.	2.5	18
15	Characterization of acetyl-CoA synthetase kinetics and ATP-binding. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1040-1049.	2.4	13
16	An acetylatable lysine controls CRP function in <i>E. coli</i> . <i>Molecular Microbiology</i> , 2018, 107, 116-131.	2.5	51
17	Study of acetate metabolism using different carbon and nitrogen sources in <i>Escherichia coli</i> . <i>New Biotechnology</i> , 2018, 44, S87-S88.	4.4	0
18	Insights into metabolic osmoadaptation of the ectoines-producer bacterium <i>Chromohalobacter salexigens</i> through a high-quality genome scale metabolic model. <i>Microbial Cell Factories</i> , 2018, 17, 2.	4.0	26

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19	Understanding the interplay of carbon and nitrogen supply for ectoines production and metabolic overflow in high density cultures of <i>Chromohalobacter salexigens</i> . <i>Microbial Cell Factories</i> , 2017, 16, 23.	4.0	27
20	Attenuated JNK signaling in multidrug-resistant leukemic cells. Dual role of MAPK in cell survival. <i>Cellular Signalling</i> , 2017, 30, 162-170.	3.6	13
21	Characterization of CobB kinetics and inhibition by nicotinamide. <i>PLoS ONE</i> , 2017, 12, e0189689.	2.5	20
22	Acetate metabolism regulation in <i>Escherichia coli</i> : carbon overflow, pathogenicity, and beyond. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8985-9001.	3.6	98
23	Collateral sensitivity to cold stress and differential BCL-2 family expression in new daunomycin-resistant lymphoblastoid cell lines. <i>Experimental Cell Research</i> , 2015, 331, 11-20.	2.6	12
24	Contribution of <i>RpoS</i> to metabolic efficiency and ectoines synthesis during the osmotic and heat stress response in the halophilic bacterium <i>Chromohalobacter salexigens</i> . <i>Environmental Microbiology Reports</i> , 2015, 7, 301-311.	2.4	12
25	Regulation of acetate metabolism in <i>Escherichia coli</i> BL21 by protein N ^ε -lysine acetylation. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3533-3545.	3.6	48
26	Fluctuating asymmetry as a proxy for oxidative stress in wild boar. <i>Mammalian Biology</i> , 2015, 80, 285-289.	1.5	9
27	Metabolomic responses in caged clams, <i>Ruditapes decussatus</i> , exposed to agricultural and urban inputs in a Mediterranean coastal lagoon (Mar Menor, SE Spain). <i>Science of the Total Environment</i> , 2015, 524-525, 136-147.	8.0	26
28	Lycopene overproduction and in situ extraction in organic-aqueous culture systems using a metabolically engineered <i>Escherichia coli</i> . <i>AMB Express</i> , 2015, 5, 65.	3.0	17
29	The Protein Acetyltransferase PatZ from <i>Escherichia coli</i> Is Regulated by Autoacetylation-induced Oligomerization. <i>Journal of Biological Chemistry</i> , 2015, 290, 23077-23093.	3.4	29
30	Protein acetylation affects acetate metabolism, motility and acid stress response in <i>Escherichia coli</i> . <i>Molecular Systems Biology</i> , 2014, 10, 762.	7.2	159
31	Regulation of bacterial physiology by lysine acetylation of proteins. <i>New Biotechnology</i> , 2014, 31, 586-595.	4.4	107
32	Polyolefin fiber-reinforced concrete enhanced with steel-hooked fibers in low proportions. <i>Materials & Design</i> , 2014, 60, 57-65.	5.1	76
33	Systematic Production of Inactivating and Non-Inactivating Suppressor Mutations at the <i>relA</i> Locus That Compensate the Detrimental Effects of Complete <i>spoT</i> Loss and Affect Glycogen Content in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e106938.	2.5	21
34	Metabolic engineering for high yielding L(-)-carnitine production in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2013, 12, 56.	4.0	13
35	Lipid biomarkers and metabolic effects of lycopene from tomato juice on liver of rats with induced hepatic steatosis. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 1870-1881.	4.2	42
36	GlgS, described previously as a glycogen synthesis control protein, negatively regulates motility and biofilm formation in <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2013, 452, 559-573.	3.7	28

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37	Role of Central Metabolism in the Osmoadaptation of the Halophilic Bacterium <i>Chromohalobacter salexigens</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 17769-17781.	3.4	53
38	Bioequivalence Study of 2 Orodispersible Formulations of Zolmitriptan 5â€‰mg in Healthy Volunteers. <i>Arzneimittelforschung</i> , 2012, 62, 482-486.	0.4	1
39	Bioequivalence Study of 2 Orodispersible Formulations of Ondansetron 8â€‰mg in Healthy Volunteers. <i>Arzneimittelforschung</i> , 2012, 62, 59-62.	0.4	2
40	EasyLCMS: an asynchronous web application for the automated quantification of LC-MS data. <i>BMC Research Notes</i> , 2012, 5, 428.	1.4	10
41	Modelling and Analysis of Central Metabolism Operating Regulatory Interactions in Salt Stress Conditions in a L-Carnitine Overproducing <i>E. coli</i> Strain. <i>PLoS ONE</i> , 2012, 7, e34533.	2.5	1
42	Quantitative stability of linear infinite inequality systems under block perturbations with applications to convex systems. <i>Top</i> , 2012, 20, 310-327.	1.6	8
43	Acquisition of MDR phenotype by leukemic cells is associated with increased caspaseâ€³ activity and a collateral sensitivity to cold stress. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1416-1425.	2.6	8
44	Acetate scavenging activity in <i>Escherichia coli</i> : interplay of acetylâ€“CoA synthetase and the PEPâ€“glyoxylate cycle in chemostat cultures. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2109-2124.	3.6	71
45	Acetyl-coenzyme A Synthetase (Acs) Assay. <i>Bio-protocol</i> , 2012, 2, .	0.4	4
46	cAMPâ€“CRP coâ€“ordinates the expression of the protein acetylation pathway with central metabolism in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2011, 82, 1110-1128.	2.5	82
47	Ectoines in cell stress protection: Uses and biotechnological production. <i>Biotechnology Advances</i> , 2010, 28, 782-801.	11.7	296
48	Metabolic adaptation of <i>Escherichia coli</i> to long-term exposure to salt stress. <i>Process Biochemistry</i> , 2010, 45, 1459-1467.	3.7	19
49	Variational Analysis in Semi-Infinite and Infinite Programming, I: Stability of Linear Inequality Systems of Feasible Solutions. <i>SIAM Journal on Optimization</i> , 2010, 20, 1504-1526.	2.0	45
50	Quantitative analysis of the dynamic signaling pathway involved in the cAMP mediated induction of l-carnitine biosynthesis in <i>E. coli</i> cultures. <i>Molecular BioSystems</i> , 2010, 6, 699.	2.9	8
51	Transcriptional regulation differs in affected facioscapulohumeral muscular dystrophy patients compared to asymptomatic related carriers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6220-6225.	7.1	43
52	Analysis of the <i>Escherichia coli</i> response to glycerol pulse in continuous, highâ€“cell density culture using a multivariate approach. <i>Biotechnology and Bioengineering</i> , 2009, 102, 910-922.	3.3	12
53	Model identification in presence of incomplete information by generalized principal component analysis: Application to the common and differential responses of <i>Escherichia coli</i> to multiple pulse perturbations in continuous, highâ€“biomass density culture. <i>Biotechnology and Bioengineering</i> , 2009, 104, 785-795.	3.3	6
54	A system biology approach to the l-carnitine biosynthesis optimization in <i>E. coli</i> through the analysis of the regulatory signalling pathway. <i>New Biotechnology</i> , 2009, 25, S355-S356.	4.4	0

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55	Thermal biology of Phymaturus lizards: evolutionary constraints or lack of environmental variation?. <i>Zoology</i> , 2009, 112, 425-432.	1.2	62
56	Genome-scale reconstruction of the metabolic network in <i>Chromohalobacter salexigens</i> . <i>New Biotechnology</i> , 2009, 25, S333.	4.4	0
57	Brn3a as a Marker of Retinal Ganglion Cells: Qualitative and Quantitative Time Course Studies in Nerve and Optic Nerve-Injured Retinas. , 2009, 50, 3860.		465
58	An insight into the role of phosphotransacetylase (pta) and the acetate/acetyl-CoA node in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2009, 8, 54.	4.0	118
59	Design of Metabolic Engineering Strategies for Maximizing L-(-)-Carnitine Production by <i>Escherichia coli</i> . Integration of the Metabolic and Bioreactor Levels. <i>Biotechnology Progress</i> , 2008, 21, 329-337.	2.6	16
60	Role of betaine:CoA ligase (CaiC) in the activation of betaines and the transfer of coenzyme A in <i>Escherichia coli</i> . <i>Journal of Applied Microbiology</i> , 2008, 105, 42-50.	3.1	10
61	Redirecting metabolic fluxes through cofactor engineering: Role of CoA-esters pool during L-(-)-carnitine production by <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2007, 132, 110-117.	3.8	11
62	In silico model of the mitochondrial role in cardiac cell undergoing angina pectoris. <i>Journal of Biotechnology</i> , 2007, 131, S19.	3.8	0
63	Metric Regularity in Convex Semi-Infinite Optimization under Canonical Perturbations. <i>SIAM Journal on Optimization</i> , 2007, 18, 717-732.	2.0	50
64	Production of L-carnitine by secondary metabolism of bacteria. <i>Microbial Cell Factories</i> , 2007, 6, 31.	4.0	30
65	Stem cells from umbilical cord blood differentiate into myotubes and express dystrophin in vitro only after exposure to in vivo muscle environment. <i>Biology of the Cell</i> , 2007, 99, 185-196.	2.0	40
66	Salt stress effects on the central and carnitine metabolisms of <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2007, 96, 722-737.	3.3	36
67	Impairing and Monitoring Glucose Catabolite Repression in L-Carnitine Biosynthesis. <i>Biotechnology Progress</i> , 2007, 23, 1286-1296.	2.6	4
68	Plasmid maintenance and physiology of a genetically engineered <i>Escherichia coli</i> strain during continuous L-carnitine production. <i>Biotechnology Letters</i> , 2007, 29, 1549-1556.	2.2	6
69	Analysis of <i>Escherichia coli</i> cell state by flow cytometry during whole cell catalyzed biotransformation for L-carnitine production. <i>Process Biochemistry</i> , 2007, 42, 25-33.	3.7	19
70	Role of wet experiment design in data generation: from in vivo to in silico and back. <i>In Silico Biology</i> , 2007, 7, S3-16.	0.9	3
71	Modeling analysis of the L-(-)-carnitine production process by <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2006, 41, 281-288.	3.7	4
72	Role of energetic coenzyme pools in the production of L-carnitine by <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2006, 8, 603-618.	7.0	13

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73	Proton mobility in hydrated sulfonated polystyrene. Journal of Membrane Science, 2006, 280, 461-469.	8.2	47
74	Model of central and trimethylammonium metabolism for optimizing l-carnitine production by E. coli. Metabolic Engineering, 2005, 7, 401-425.	7.0	10
75	Permeabilization of Escherichia coli cells in the biotransformation of trimethylammonium compounds into l-carnitine. Enzyme and Microbial Technology, 2005, 37, 300-308.	3.2	43
76	Factors affecting the biotransformation of trimethylammonium compounds into l-carnitine by Escherichia coli. Biochemical Engineering Journal, 2005, 26, 145-154.	3.6	10
77	Distance to ill-posedness and the consistency value of linear semi-infinite inequality systems. Mathematical Programming, 2005, 103, 95-126.	2.4	57
78	Whole cell biocatalysts stabilization for l-carnitine production. Biocatalysis and Biotransformation, 2005, 23, 149-158.	2.0	4
79	Culture collections and biochemistry. International Microbiology, 2003, 6, 105-112.	2.4	4
80	Effect of salt stress on crotonobetaine and D(+)-carnitine biotransformation into L(α)-carnitine by resting cells of Escherichia coli. Journal of Basic Microbiology, 2003, 43, 259-268.	3.3	15
81	Link between primary and secondary metabolism in the biotransformation of trimethylammonium compounds by Escherichia coli. Biotechnology and Bioengineering, 2003, 84, 686-699.	3.3	20
82	Racemisation of d(+)-carnitine into l(α)-carnitine by Escherichia coli strains. Process Biochemistry, 2003, 39, 287-293.	3.7	5
83	Membrane cell retention systems for continuous production of l-carnitine using Proteus sp.. Journal of Membrane Science, 2003, 214, 101-111.	8.2	12
84	Modeling of the biotransformation of crotonobetaine into L(α)-carnitine by Escherichia coli strains. Biotechnology and Bioengineering, 2002, 77, 764-775.	3.3	25
85	Modeling, optimization and experimental assessment of continuous L(α)-carnitine production by Escherichia coli cultures. Biotechnology and Bioengineering, 2002, 80, 794-805.	3.3	27
86	L(-)-carnitine production using a recombinant Escherichia coli strain. Enzyme and Microbial Technology, 2001, 28, 785-791.	3.2	15
87	High-density Escherichia coli cultures for continuous l (α)-carnitine production. Applied Microbiology and Biotechnology, 1999, 51, 760-764.	3.6	40
88	Enzymatic Cycling Assay for d-Carnitine Determination. Analytical Biochemistry, 1999, 274, 34-39.	2.4	12
89	Stability and Well-Posedness in Linear Semi-Infinite Programming. SIAM Journal on Optimization, 1999, 10, 82-98.	2.0	54
90	Limonin consumption at acidic pH values and absence of aeration by Rhodococcus fascians cells in batch and immobilized continuous systems. Enzyme and Microbial Technology, 1998, 22, 111-116.	3.2	14

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91	Biotransformation of D(+)-carnitine into L(â~)-carnitine by resting cells of Escherichia coli O44 K74. Journal of Applied Microbiology, 1998, 85, 883-890.	3.1	31
92	Title is missing!. Biotechnology Letters, 1997, 19, 1181-1184.	2.2	4
93	L(â~)-Carnitine production with immobilized Escherichia coli cells in continuous reactors. Enzyme and Microbial Technology, 1997, 21, 531-536.	3.2	17
94	Biotransformation from geraniol to nerol by immobilized grapevine cells (V. vinifera). Applied Biochemistry and Biotechnology, 1996, 56, 169-180.	2.9	16
95	pH influence on the consumption of limonin species by Rhodococcus fascians cells. Biotechnology Letters, 1996, 18, 423-428.	2.2	7
96	The sarcoglycan complex in the six autosomal recessive limb-girdle muscular dystrophies. Human Molecular Genetics, 1996, 5, 1963-1969.	2.9	167
97	A model that links growth and secondary metabolite production in plant cell suspension cultures. Biotechnology and Bioengineering, 1995, 46, 291-297.	3.3	32
98	A practical experiment on enzyme immobilization and characterization of the immobilized derivatives. Biochemical Education, 1995, 23, 213-216.	0.1	11
99	The modulus of elasticity of high performance concrete. Materiaux Et Constructions, 1995, 28, 559-568.	0.3	21
100	Enhanced accumulation of anthocyanins in Vitis vinifera cells immobilized in polyurethane foam. Enzyme and Microbial Technology, 1994, 16, 416-419.	3.2	12
101	Optimization of the start-up of a passively immobilized Zymomonas mobilis system for continuous ethanol production. Process Biochemistry, 1994, 29, 569-574.	3.7	1
102	Analysis of a packed-bed reactor for hydrolysis of picrocrocin by immobilized Î²-glucosidase. Enzyme and Microbial Technology, 1993, 15, 780-784.	3.2	15
103	Thermostability of immobilized plant microsomes. Biotechnology Letters, 1993, 15, 1129-1132.	2.2	2
104	Comparative study of reactor performance for the resolution of d,l-amino acids. Process Biochemistry, 1992, 27, 339-346.	3.7	2
105	Iminophosphorane-mediated synthesis of 1-substituted-Î²-carbolines: investigative studies on the preparation of alkaloids lavendamycin and eudistomins framework.. Tetrahedron Letters, 1992, 33, 2891-2894.	1.4	25
106	Picrocrocin hydrolysis by immobilized Î²-glucosidase. Biotechnology Letters, 1992, 14, 475-480.	2.2	24
107	TLC Preparative Purification of Picrocrocin, HTCC and Crocin from Saffron. Journal of Food Science, 1992, 57, 714-716.	3.1	71
108	Properties of pectinesterase and endo-d-polygalacturonase coimmobilized in a porous glass support. Applied Biochemistry and Biotechnology, 1992, 37, 19-31.	2.9	7

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109	2,3,5-triphenyltetrazolium chloride as a viability assay for immobilized plant cells. Biotechnology Letters, 1992, 6, 319-322.	0.5	30
110	Kinetic and operational study of a cross-flow reactor with immobilized pectolytic enzymes. Enzyme and Microbial Technology, 1990, 12, 499-505.	3.2	27
111	Stability against stop of flow of an immobilized Zymomonas mobilis bioreactor. Biotechnology Letters, 1989, 11, 665-668.	2.2	2
112	Continuous ethanol production at high glucose concentrations by a passively immobilized Zymomonas mobilis system. Applied Microbiology and Biotechnology, 1989, 31, 249.	3.6	9
113	pH influence on ethanol production and retained biomass in a passively immobilized Zymomonas mobilis system. Biotechnology Letters, 1988, 10, 437-442.	2.2	6
114	Stability of a downflow anaerobic fixed-film reactor to feed change. Applied Microbiology and Biotechnology, 1988, 27, 601-605.	3.6	2
115	Anaerobic digestion: A case study. Biochemical Education, 1988, 16, 82-84.	0.1	0
116	A cross-flow reactor with immobilized pectolytic enzymes for juice clarification. Biotechnology Letters, 1987, 9, 875-880.	2.2	31
117	Effect of temperature and long-term operation on passively immobilized Zymomonas mobilis for continuous ethanol production. Biotechnology Letters, 1987, 9, 573-576.	2.2	6