Manuel Carmona

List of Publications by Citations

35 papers	1,313 citations	17 h-index	36 g-index
37 ext. papers	1,536 ext. citations	4.8 avg, IF	4.05 L-index

#	Paper	IF	Citations
35	Anaerobic catabolism of aromatic compounds: a genetic and genomic view. *Microbiology and Molecular Biology Reviews*, **2009**, 73, 71-133	13.2	312
34	The bzd gene cluster, coding for anaerobic benzoate catabolism, in Azoarcus sp. strain CIB. *Journal of Bacteriology*, **2004**, 186, 5762-74	3.5	92
33	The hha gene modulates haemolysin expression in Escherichia coli. *Molecular Microbiology*, **1991**, 5, 1285-93	4.1	85
32	Bacterial degradation of benzoate: cross-regulation between aerobic and anaerobic pathways. *Journal of Biological Chemistry*, **2012**, 287, 10494-10508	5.4	66
31	Activation of transcription at sigma 54-dependent promoters on linear templates requires intrinsic or induced bending of the DNA. *Journal of Molecular Biology*, **1996**, 261, 348-56	6.5	60
30	Biosynthesis of selenium nanoparticles by Azoarcus sp. CIB. *Microbial Cell Factories*, **2016**, 15, 109	6.4	60
29	BzdR, a repressor that controls the anaerobic catabolism of benzoate in Azoarcus sp. CIB, is the first member of a new subfamily of transcriptional regulators. *Journal of Biological Chemistry*, **2005**, 280, 10683-94	5.4	58
28	In vivo and in vitro effects of (p)ppGpp on the sigma(54) promoter Pu of the TOL plasmid of Pseudomonas putida. *Journal of Bacteriology*, **2000**, 182, 4711-8	3.5	54
27	Whole-genome analysis of Azoarcus sp. strain CIB provides genetic insights to its different lifestyles and predicts novel metabolic features. *Systematic and Applied Microbiology*, **2015**, 38, 462-71	4.2	49
26	Speeding up bioproduction of selenium nanoparticles by using Vibrio natriegens as microbial factory. *Scientific Reports*, **2017**, 7, 16046	4.9	47
25	Escherichia coli hha mutants, DNA supercoiling and expression of the haemolysin genes from the recombinant plasmid pANN202-312. *Molecular Microbiology*, **1993**, 9, 1011-8	4.1	40
24	DNA bending and the initiation of transcription at sigma54-dependent bacterial promoters. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 9568-72	11.5	38
23	Involvement of the FtsH (HflB) protease in the activity of sigma 54 promoters. *Molecular Microbiology*, **1999**, 31, 261-70	4.1	35
22	Azoarcus sp. CIB, an anaerobic biodegrader of aromatic compounds shows an endophytic lifestyle. *PLoS ONE*, **2014**, 9, e110771	3.7	33
21	Characterization of the mbd cluster encoding the anaerobic 3-methylbenzoyl-CoA central pathway. *Environmental Microbiology*, **2013**, 15, 148-66	5.2	32
20	Recruitment of RNA polymerase is a rate-limiting step for the activation of the sigma(54) promoter Pu of Pseudomonas putida. *Journal of Biological Chemistry*, **1999**, 274, 33790-4	5.4	30
19	Biochemical characterization of the transcriptional regulator BzdR from Azoarcus sp. CIB. *Journal of Biological Chemistry*, **2010**, 285, 35694-705	5.4	23

18	Transcriptional Regulation of the Peripheral Pathway for the Anaerobic Catabolism of Toluene and -Xylene in sp. CIB. *Frontiers in Microbiology*, **2018**, 9, 506	5.7	16
17	AccR is a master regulator involved in carbon catabolite repression of the anaerobic catabolism of aromatic compounds in Azoarcus sp. CIB. *Journal of Biological Chemistry*, **2014**, 289, 1892-904	5.4	16
16	Identification of the Geobacter metallireducens bamVW two-component system, involved in transcriptional regulation of aromatic degradation. *Applied and Environmental Microbiology*, **2010**, 76, 383-5	4.8	16
15	Identification and analysis of a glutaryl-CoA dehydrogenase-encoding gene and its cognate transcriptional regulator from Azoarcus sp. CIB. *Environmental Microbiology*, **2008**, 10, 474-82	5.2	16
14	Oxygen-dependent regulation of the central pathway for the anaerobic catabolism of aromatic compounds in Azoarcus sp. strain CIB. *Journal of Bacteriology*, **2006**, 188, 2343-54	3.5	16
13	Genetic clues on the evolution of anaerobic catabolism of aromatic compounds. *Microbiology (United Kingdom)*, **2004**, 150, 2018-2021	2.9	15
12	Iron-reducing bacteria unravel novel strategies for the anaerobic catabolism of aromatic compounds. *Molecular Microbiology*, **2005**, 58, 1210-5	4.1	15
11	m-xylene-responsive Pu-PnifH hybrid sigma54 promoters that overcome physiological control in Pseudomonas putida KT2442. *Journal of Bacteriology*, **2005**, 187, 125-34	3.5	14
10	Unraveling the specific regulation of the central pathway for anaerobic degradation of 3-methylbenzoate. *Journal of Biological Chemistry*, **2015**, 290, 12165-83	5.4	12
9	Identification of a missing link in the evolution of an enzyme into a transcriptional regulator. *PLoS ONE*, **2013**, 8, e57518	3.7	11
8	New insights into the BzdR-mediated transcriptional regulation of the anaerobic catabolism of benzoate in Azoarcus sp. CIB. *Microbiology (United Kingdom)*, **2008**, 154, 306-316	2.9	11
7	ArxA From sp. CIB, an Anaerobic Arsenite Oxidase From an Obligate Heterotrophic and Mesophilic Bacterium. *Frontiers in Microbiology*, **2019**, 10, 1699	5.7	9
6	Enhancing the Rice Seedlings Growth Promotion Abilities of sp. CIB by Heterologous Expression of ACC Deaminase to Improve Performance of Plants Exposed to Cadmium Stress. *Microorganisms*, **2020**, 8,	4.9	8
5	Refactoring the □phage lytic/lysogenic decision with a synthetic regulator. *MicrobiologyOpen*, **2016**, 5, 575-81	3.4	8
4	Motility, Adhesion and c-di-GMP Influence the Endophytic Colonization of Rice by sp. CIB. *Microorganisms*, **2021**, 9,	4.9	6
3	Engineering a bzd cassette for the anaerobic bioconversion of aromatic compounds. *Microbial Biotechnology*, **2017**, 10, 1418-1425	6.3	5
2	Comparative Genomics Provides Insights into the Taxonomy of and Reveals Separate Origins of Genes in the Proposed and Genera. *Genes*, **2021**, 12,	4.2	3
1	Bioremediation of Soil Contaminated with Arsenic. *Microorganisms for Sustainability*, **2019**, 321-351	1.1	2