Jose Luis Garcia

List of Publications by Citations

163 papers	8,019 citations	49 h-index	85 g-index
169 ext. papers	9,072 ext. citations	6.1 avg, IF	5.6 L-index

#	Paper	IF	Citations
163	Genomic sequence of the pathogenic and allergenic filamentous fungus Aspergillus fumigatus. *Nature*, **2005**, 438, 1151-6	50.4	1114
162	Genomic analysis of the aromatic catabolic pathways from Pseudomonas putida KT2440. *Environmental Microbiology*, **2002**, 4, 824-41	5.2	380
161	Anaerobic catabolism of aromatic compounds: a genetic and genomic view. *Microbiology and Molecular Biology Reviews*, **2009**, 73, 71-133	13.2	312
160	The homogentisate pathway: a central catabolic pathway involved in the degradation of L-phenylalanine, L-tyrosine, and 3-hydroxyphenylacetate in Pseudomonas putida. *Journal of Bacteriology*, **2004**, 186, 5062-77	3.5	190
159	Taking aim on bacterial pathogens: from phage therapy to enzybiotics. *Current Opinion in Microbiology*, **2007**, 10, 461-72	7.9	175
158	Microalgae, old sustainable food and fashion nutraceuticals. *Microbial Biotechnology*, **2017**, 10, 1017-1024	4.3	171
157	Structural basis for selective recognition of pneumococcal cell wall by modular endolysin from phage Cp-1. *Structure*, **2003**, 11, 1239-49	5.2	135
156	The phenylacetyl-CoA catabolon: a complex catabolic unit with broad biotechnological applications. *Molecular Microbiology*, **2001**, 39, 1434-42	4.1	132
155	Genome sequence of the olive tree, Olea europaea. *GigaScience*, **2016**, 5, 29	7.6	130
154	LytB, a novel pneumococcal murein hydrolase essential for cell separation. *Molecular Microbiology*, **1999**, 31, 1275-81	4.1	126
153	Genome and transcriptome analysis of the Mesoamerican common bean and the role of gene duplications in establishing tissue and temporal specialization of genes. *Genome Biology*, **2016**, 17, 32	18.3	124
152	Searching for autolysin functions. Characterization of a pneumococcal mutant deleted in the lytA gene. *FEBS Journal*, **1986**, 158, 289-93		115
151	Deciphering the genetic determinants for aerobic nicotinic acid degradation: the nic cluster from Pseudomonas putida KT2440. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11329-34	11.5	112
150	The molecular characterization of the first autolytic lysozyme of Streptococcus pneumoniae reveals evolutionary mobile domains. *Molecular Microbiology*, **1999**, 33, 128-38	4.1	109
149	Whole genome sequencing of turbot (Scophthalmus maximus; Pleuronectiformes): a fish adapted to demersal life. *DNA Research*, **2016**, 23, 181-92	4.5	103
148	Catabolism and biotechnological applications of cholesterol degrading bacteria. *Microbial Biotechnology*, **2012**, 5, 679-99	6.3	99
147	Purification and polar localization of pneumococcal LytB, a putative endo-beta-N-acetylglucosaminidase: the chain-dispersing murein hydrolase. *Journal of Bacteriology*, **2002**, 184, 4988-5000	3.5	97

146	Stabilization of penicillin G acylase from Escherichia coli: site-directed mutagenesis of the protein surface to increase multipoint covalent attachment. *Applied and Environmental Microbiology*, **2004**, 70, 1249-51	4.8	93
145	The bzd gene cluster, coding for anaerobic benzoate catabolism, in Azoarcus sp. strain CIB. *Journal of Bacteriology*, **2004**, 186, 5762-74	3.5	92
144	One-step purification, covalent immobilization, and additional stabilization of poly-His-tagged proteins using novel heterofunctional chelate-epoxy supports. *Biotechnology and Bioengineering*, **2001**, 76, 269-76	4.9	91
143	The turnover of medium-chain-length polyhydroxyalkanoates in Pseudomonas putida KT2442 and the fundamental role of PhaZ depolymerase for the metabolic balance. *Environmental Microbiology*, **2010**, 12, 207-21	5.2	87
142	Extreme genomic erosion after recurrent demographic bottlenecks in the highly endangered Iberian lynx. *Genome Biology*, **2016**, 17, 251	18.3	85
141	Functionalization of Gold Surfaces for Specific and Reversible Attachment of a Fused □Galactosidase and Choline-Receptor Protein. *Journal of the American Chemical Society*, **1997**, 119, 1043-1051	16.4	84
140	Molecular characterization of the safracin biosynthetic pathway from Pseudomonas fluorescens A2-2: designing new cytotoxic compounds. *Molecular Microbiology*, **2005**, 56, 144-54	4.1	84
139	In vivo immobilization of fusion proteins on bioplastics by the novel tag BioF. *Applied and Environmental Microbiology*, **2004**, 70, 3205-12	4.8	82
138	Biological role of the pneumococcal amidase. Cloning of the lytA gene in Streptococcus pneumoniae. *FEBS Journal*, **1987**, 164, 621-4		80
137	Immobilization and single-step purification of fusion proteins using DEAE-cellulose. *FEBS Journal*, **1992**, 203, 153-9		79
136	Conformational selection of glycomimetics at enzyme catalytic sites: experimental demonstration of the binding of distinct high-energy distorted conformations of C-, S-, and O-glycosides by E. Coli beta-galactosidases. *Journal of the American Chemical Society*, **2002**, 124, 4804-10	16.4	78
135	One-step purification, covalent immobilization, and additional stabilization of a thermophilic poly-His-tagged beta-galactosidase from Thermus sp. strain T2 by using novel heterofunctional chelate-epoxy Sepabeads. *Biomacromolecules*, **2003**, 4, 107-13	6.9	76
134	Insights into pneumococcal pathogenesis from the crystal structure of the modular teichoic acid phosphorylcholine esterase Pce. *Nature Structural and Molecular Biology*, **2005**, 12, 533-8	17.6	75
133	Biotransformations catalyzed by multimeric enzymes: stabilization of tetrameric ampicillin acylase permits the optimization of ampicillin synthesis under dissociation conditions. *Biomacromolecules*, **2001**, 2, 95-104	6.9	73
132	Enhancing desulphurization by engineering a flavin reductase-encoding gene cassette in recombinant biocatalysts. *Environmental Microbiology*, **2000**, 2, 687-94	5.2	72
131	Disruption of □oxidation pathway in Pseudomonas putida KT2442 to produce new functionalized PHAs with thioester groups. *Applied Microbiology and Biotechnology*, **2011**, 89, 1583-98	5.7	71
130	Structural requirements of choline derivatives for Qonversion Qof pneumococcal amidase. A new single-step procedure for purification of this autolysin. *FEBS Letters*, **1988**, 232, 308-12	3.8	71
129	Affinity chromatography of polyhistidine tagged enzymes. New dextran-coated immobilized metal ion affinity chromatography matrices for prevention of undesired multipoint adsorptions. *Journal of Chromatography A*, **2001**, 915, 97-106	4.5	68

128	Stabilization of heterodimeric enzyme by multipoint covalent immobilization: Penicillin G acylase from Kluyvera citrophila. *Biotechnology and Bioengineering*, **1993**, 42, 455-64	4.9	68
127	Bacterial degradation of benzoate: cross-regulation between aerobic and anaerobic pathways. *Journal of Biological Chemistry*, **2012**, 287, 10494-10508	5.4	66
126	Genetically engineered Pseudomonas: a factory of new bioplastics with broad applications. *Environmental Microbiology*, **2001**, 3, 612-8	5.2	66
125	Cholesterol metabolism in Mycobacterium smegmatis. *Environmental Microbiology Reports*, **2012**, 4, 168-83	3.7	64
124	Controlled autolysis facilitates the polyhydroxyalkanoate recovery in Pseudomonas putida KT2440. *Microbial Biotechnology*, **2011**, 4, 533-47	6.3	64
123	Engineering synthetic bacterial consortia for enhanced desulfurization and revalorization of oil sulfur compounds. *Metabolic Engineering*, **2016**, 35, 46-54	9.7	58
122	Unravelling the gallic acid degradation pathway in bacteria: the gal cluster from Pseudomonas putida. *Molecular Microbiology*, **2011**, 79, 359-74	4.1	58
121	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
120	New Insights on Steroid Biotechnology. *Frontiers in Microbiology*, **2018**, 9, 958	5.7	54
119	Insights into pneumococcal fratricide from the crystal structures of the modular killing factor LytC. *Nature Structural and Molecular Biology*, **2010**, 17, 576-81	17.6	53
118	Elucidation of the molecular recognition of bacterial cell wall by modular pneumococcal phage endolysin CPL-1. *Journal of Biological Chemistry*, **2007**, 282, 24990-9	5.4	53
117	PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant Staphylococcus aureus. *Biomaterials*, **2014**, 35, 14-24	15.6	50
116	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from E. coli. *Process Biochemistry*, **2010**, 45, 390-398	4.8	50
115	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
114	The PhaD regulator controls the simultaneous expression of the pha genes involved in polyhydroxyalkanoate metabolism and turnover in Pseudomonas putida KT2442. *Environmental Microbiology*, **2010**, 12, 1591-603	5.2	49
113	Identification and biochemical evidence of a medium-chain-length polyhydroxyalkanoate depolymerase in the Bdellovibrio bacteriovorus predatory hydrolytic arsenal. *Applied and Environmental Microbiology*, **2012**, 78, 6017-26	4.8	49
112	Molecular characterization of the gallate dioxygenase from Pseudomonas putida KT2440. The prototype of a new subgroup of extradiol dioxygenases. *Journal of Biological Chemistry*, **2005**, 280, 35382-90	5.4	48
111	New challenges for syngas fermentation: towards production of biopolymers. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1735-1751	3.5	47

110	Structural organization of the major autolysin from Streptococcus pneumoniae. *Journal of Biological Chemistry*, **1996**, 271, 6832-8	5.4	47
109	Molecular determinants of the hpa regulatory system of Escherichia coli: the HpaR repressor. *Nucleic Acids Research*, **2003**, 31, 6598-609	20.1	45
108	Genome organization and molecular analysis of the temperate bacteriophage MM1 of Streptococcus pneumoniae. *Journal of Bacteriology*, **2003**, 185, 2362-8	3.5	44
107	Molecular peculiarities of the lytA gene isolated from clinical pneumococcal strains that are bile insoluble. *Journal of Clinical Microbiology*, **2002**, 40, 2545-54	9.7	44
106	Crystal structure of CbpF, a bifunctional choline-binding protein and autolysis regulator from Streptococcus pneumoniae. *EMBO Reports*, **2009**, 10, 246-51	6.5	43
105	Stabilization of a multimeric beta-galactosidase from Thermus sp. strain T2 by immobilization on novel heterofunctional epoxy supports plus aldehyde-dextran cross-linking. *Biotechnology Progress*, **2004**, 20, 388-92	2.8	43
104	NMR investigations of protein-carbohydrate interactions binding studies and refined three-dimensional solution structure of the complex between the B domain of wheat germ agglutinin and N,NQN"-triacetylchitotriose. *FEBS Journal*, **2000**, 267, 3965-78		43
103	Microbial synthesis of poly(beta-hydroxyalkanoates) bearing phenyl groups from pseudomonas putida: chemical structure and characterization. *Biomacromolecules*, **2001**, 2, 562-7	6.9	41
102	A highly conserved mycobacterial cholesterol catabolic pathway. *Environmental Microbiology*, **2013**, 15, 2342-59	5.2	40
101	Characterization of the last step of the aerobic phenylacetic acid degradation pathway. *Microbiology (United Kingdom)*, **2007**, 153, 357-365	2.9	39
100	Genetic modification of the penicillin G acylase surface to improve its reversible immobilization on ionic exchangers. *Applied and Environmental Microbiology*, **2007**, 73, 312-9	4.8	37
99	Overproduction of Thermus sp. Strain T2 beta-galactosidase in Escherichia coli and preparation by using tailor-made metal chelate supports. *Applied and Environmental Microbiology*, **2003**, 69, 1967-72	4.8	37
98	Characterization of genetic transformation in Streptococcus oralis NCTC 11427: expression of the pneumococcal amidase in S. oralis using a new shuttle vector. *Molecular Genetics and Genomics*, **1988**, 215, 53-7		37
97	Disposable amperometric magnetoimmunosensors for the specific detection of Streptococcus pneumoniae. *Biosensors and Bioelectronics*, **2010**, 26, 1225-30	11.8	35
96	Regulation of the mhp cluster responsible for 3-(3-hydroxyphenyl)propionic acid degradation in Escherichia coli. *Journal of Biological Chemistry*, **2003**, 278, 27575-85	5.4	33
95	Structural characterization of the unligated and choline-bound forms of the major pneumococcal autolysin LytA amidase. Conformational transitions induced by temperature. *Journal of Biological Chemistry*, **1996**, 271, 29152-61	5.4	33
94	Purification and characterization of the autolytic glycosidase of Streptococcus pneumoniae. *Biochemical and Biophysical Research Communications*, **1989**, 158, 251-6	3.4	32
93	Analysis of dibenzothiophene desulfurization in a recombinant Pseudomonas putida strain. *Applied and Environmental Microbiology*, **2009**, 75, 875-7	4.8	31

92	Engineering the D-amino acid oxidase from Trigonopsis variabilis to facilitate its overproduction in Escherichia coli and its downstream processing by tailor-made metal chelate supports. *Enzyme and Microbial Technology*, **1999**, 25, 88-95	3.8	31
91	Structural and thermodynamic characterization of Pal, a phage natural chimeric lysin active against pneumococci. *Journal of Biological Chemistry*, **2004**, 279, 43697-707	5.4	30
90	Mycobacterium smegmatis is a suitable cell factory for the production of steroidic synthons. *Microbial Biotechnology*, **2017**, 10, 138-150	6.3	28
89	Development of amperometric magnetogenosensors coupled to asymmetric PCR for the specific detection of Streptococcus pneumoniae. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 2413-20	4.4	28
88	Genetic characterization of the phenylacetyl-coenzyme A oxygenase from the aerobic phenylacetic acid degradation pathway of Escherichia coli. *Applied and Environmental Microbiology*, **2006**, 72, 7422-6	4.8	28
87	Genetic characterization of the styrene lower catabolic pathway of Pseudomonas sp. strain Y2. *Gene*, **2003**, 319, 71-83	3.8	28
86	Engineering Mycobacterium smegmatis for testosterone production. *Microbial Biotechnology*, **2017**, 10, 151-161	6.3	27
85	Structural studies of the lysozyme coded by the pneumococcal phage Cp-1. Conformational changes induced by choline. *FEBS Journal*, **1990**, 187, 409-16		27
84	Deciphering the transcriptional regulation of cholesterol catabolic pathway in mycobacteria: identification of the inducer of KstR repressor. *Journal of Biological Chemistry*, **2014**, 289, 17576-88	5.4	24
83	Characterization of the KstR-dependent promoter of the gene for the first step of the cholesterol degradative pathway in Mycobacterium smegmatis. *Microbiology (United Kingdom)*, **2011**, 157, 2670-2680	2.9	24
82	3-Hydroxyphenylpropionate and phenylpropionate are synergistic activators of the MhpR transcriptional regulator from Escherichia coli. *Journal of Biological Chemistry*, **2009**, 284, 21218-28	5.4	24
81	Single-step purification on DEAE-sephacel of recombinant polypeptides produced in Escherichia coli. *Nature Biotechnology*, **1992**, 10, 795-8	44.5	24
80	Reward for Bdellovibrio bacteriovorus for preying on a polyhydroxyalkanoate producer. *Environmental Microbiology*, **2013**, 15, 1204-15	5.2	23
79	Biochemical characterization of the transcriptional regulator BzdR from Azoarcus sp. CIB. *Journal of Biological Chemistry*, **2010**, 285, 35694-705	5.4	23
78	Genome sequence of the methanotrophic poly-Ehydroxybutyrate producer Methylocystis parvus OBBP. *Journal of Bacteriology*, **2012**, 194, 5709-10	3.5	23
77	Coregulation by phenylacetyl-coenzyme A-responsive PaaX integrates control of the upper and lower pathways for catabolism of styrene by Pseudomonas sp. strain Y2. *Journal of Bacteriology*, **2006**, 188, 4812-21	3.5	23
76	Selective and mild adsorption of large proteins on lowly activated immobilized metal ion affinity chromatography matrices. Purification of multimeric thermophilic enzymes overexpressed in Escherichia coli. *Journal of Chromatography A*, **2004**, 1055, 93-8	4.5	23
75	A gene containment strategy based on a restriction-modification system. *Environmental Microbiology*, **2000**, 2, 555-63	5.2	22

74	Isolation, characterization and physiological properties of an autolytic-deficient mutant of Streptococcus pneumoniae. *Molecular Genetics and Genomics*, **1986**, 204, 237-42		22
73	New tool for spreading proteins to the environment: Cry1Ab toxin immobilized to bioplastics. *Applied Microbiology and Biotechnology*, **2006**, 72, 88-93	5.7	21
72	The PaaX repressor, a link between penicillin G acylase and the phenylacetyl-coenzyme A catabolon of Escherichia coli W. *Journal of Bacteriology*, **2004**, 186, 2215-20	3.5	21
71	FLYCOP: metabolic modeling-based analysis and engineering microbial communities. *Bioinformatics* , **2018**, 34, i954-i963	7.2	21
70	Newly discovered penicillin acylase activity of aculeacin A acylase from Actinoplanes utahensis. *Applied and Environmental Microbiology*, **2007**, 73, 5378-81	4.8	20
69	VO1, a temperate bacteriophage of the type 19A multiresistant epidemic 8249 strain of Streptococcus pneumoniae: analysis of variability of lytic and putative C5 methyltransferase genes. *Microbial Drug Resistance*, **2003**, 9, 7-15	2.9	20
68	Aromatic metabolism versus carbon availability: the regulatory network that controls catabolism of less-preferred carbon sources in Escherichia coli. *FEMS Microbiology Reviews*, **2004**, 28, 503-18	15.1	20
67	Role of Asp-9 and Glu-36 in the active site of the pneumococcal CPL1 lysozyme: an evolutionary perspective of lysozyme mechanism. *Biochemistry*, **1992**, 31, 8495-9	3.2	20
66	Insights on the regulation of the phenylacetate degradation pathway from Escherichia coli. *Environmental Microbiology Reports*, **2014**, 6, 239-50	3.7	19
65	A finely tuned regulatory circuit of the nicotinic acid degradation pathway in Pseudomonas putida. *Environmental Microbiology*, **2011**, 13, 1718-32	5.2	19
64	Engineering alternative isobutanol production platforms. *AMB Express*, **2015**, 5, 119	4.1	18
63	Characterization of Ejl, the cell-wall amidase coded by the pneumococcal bacteriophage Ej-1. *Protein Science*, **2002**, 11, 1788-99	6.3	18
62	Insights into the structure-function relationships of pneumococcal cell wall lysozymes, LytC and Cpl-1. *Journal of Biological Chemistry*, **2008**, 283, 28618-28	5.4	18
61	Stabilization of a tetrameric enzyme (□amino acid ester hydrolase from Acetobacter turbidans) enables a very improved performance of ampicillin synthesis. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 633-638		17
60	Testosterone Degradative Pathway of. *Genes*, **2019**, 10,	4.2	17
59	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
58	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
57	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

56	Overexpression of penicillin V acylase from Streptomyces lavendulae and elucidation of its catalytic residues. *Applied and Environmental Microbiology*, **2015**, 81, 1225-33	4.8	15
55	Cloning in Escherichia coli and molecular analysis of the sucrose system of the Salmonella plasmid SCR-53. *Molecular Genetics and Genomics*, **1985**, 201, 575-7		15
54	1,3-Propanediol production by NRRL-B199 from glycerol. Medium composition and operational conditions. *Biotechnology Reports (Amsterdam, Netherlands)*, **2015**, 6, 100-107	5.3	14
53	Clinical evaluation of a disposable amperometric magneto-genosensor for the detection and identification of Streptococcus pneumoniae. *Journal of Microbiological Methods*, **2014**, 103, 25-8	2.8	14
52	Design of catabolic cassettes for styrene biodegradation. *Antonie Van Leeuwenhoek*, **2003**, 84, 17-24	2.1	14
51	Molecular and functional analysis of the mce4 operon in Mycobacterium smegmatis. *Environmental Microbiology*, **2017**, 19, 3689-3699	5.2	13
50	The role of cofactor binding in tryptophan accessibility and conformational stability of His-tagged D-amino acid oxidase from Trigonopsis variabilis. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2007**, 1774, 556-65	4	13
49	Unravelling the structure of the pneumococcal autolytic lysozyme. *Biochemical Journal*, **2005**, 391, 41-9	3.8	13
48	Allelic variation of polymorphic locus lytB, encoding a choline-binding protein, from streptococci of the mitis group. *Applied and Environmental Microbiology*, **2005**, 71, 8706-13	4.8	13
47	Molecular characterization of a new gene cluster for steroid degradation in Mycobacterium smegmatis. *Environmental Microbiology*, **2017**, 19, 2546-2563	5.2	12
46	Unravelling the pleiotropic role of the MceG ATPase in Mycobacterium smegmatis. *Environmental Microbiology*, **2017**, 19, 2564-2576	5.2	12
45	Genome of sp. PHM005 Reveals a Complete and Active -AT PKS Gene Cluster for the Biosynthesis of Labrenzin. *Frontiers in Microbiology*, **2019**, 10, 2561	5.7	12
44	Pipelines for New Chemicals: a strategy to create new value chains and stimulate innovation-based economic revival in Southern European countries. *Environmental Microbiology*, **2014**, 16, 9-18	5.2	11
43	Identification of a missing link in the evolution of an enzyme into a transcriptional regulator. *PLoS ONE*, **2013**, 8, e57518	3.7	11
42	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
41	Production of a Thermoresistant Alpha-galactosidase from Thermus sp. Strain T2 for Food Processing. *Food Biotechnology*, **2007**, 21, 91-103	2.2	11
40	Unraveling the 17β-Estradiol Degradation Pathway in NBRC 16725. *Frontiers in Microbiology*, **2020**, 11, 588300	5.7	11
39	Cloning, expression, and characterization of a peculiar choline-binding beta-galactosidase from Streptococcus mitis. *Applied and Environmental Microbiology*, **2009**, 75, 5972-80	4.8	10

38	Pneumococcal phosphorylcholine esterase, Pce, contains a metal binuclear center that is essential for substrate binding and catalysis. *Protein Science*, **2005**, 14, 3013-24	6.3	10
37	Identification and expression of the 11β-steroid hydroxylase from Cochliobolus lunatus in Corynebacterium glutamicum. *Microbial Biotechnology*, **2019**, 12, 856-868	6.3	8
36	Engineering the l-Arabinose Isomerase from Enterococcus Faecium for d-Tagatose Synthesis. *Molecules*, **2017**, 22,	4.8	8
35	Characterization of the KstR2 regulator responsible of the lower cholesterol degradative pathway in Mycobacterium smegmatis. *Environmental Microbiology Reports*, **2015**, 7, 155-63	3.7	8
34	Cloning of the authentic bovine gene encoding pepsinogen a and its expression in microbial cells. *Applied and Environmental Microbiology*, **2004**, 70, 2588-95	4.8	8
33	Construction of a chimeric thermostable pyrophosphatase to facilitate its purification and immobilization by using the choline-binding tag. *Applied and Environmental Microbiology*, **2004**, 70, 4642-7	4.8	8
32	The subunit I of the respiratory-chain NADH dehydrogenase from Cephalosporium acremonium: the evolution of a mitochondrial gene. *Current Genetics*, **1986**, 10, 797-801	2.9	8
31	One-Step Immobilization and Stabilization of a Recombinant Enterococcus faecium DBFIQ E36 L-Arabinose Isomerase for D-Tagatose Synthesis. *Applied Biochemistry and Biotechnology*, **2019**, 188, 310-325	3.2	8
30	Quantifying dynamic mechanisms of auto-regulation in Escherichia coli with synthetic promoter in response to varying external phosphate levels. *Scientific Reports*, **2019**, 9, 2076	4.9	7
29	Unravelling a new catabolic pathway of C-19 steroids in Mycobacterium smegmatis. *Environmental Microbiology*, **2018**, 20, 1815-1827	5.2	7
28	Plasmids as Tools for Containment. *Microbiology Spectrum*, **2014**, 2,	8.9	7
27	The role of FIS protein in the physiological control of the expression of the Escherichia coli meta-hpa operon. *Microbiology (United Kingdom)*, **2008**, 154, 2151-2160	2.9	7
26	Genome Sequence of Pseudomonas azelaica Strain Aramco J. *Genome Announcements*, **2015**, 3,		6
25	Monitoring Escherichia coli growth in M63 media by ultrasonic noninvasive methods and correlation with spectrophotometric and HPLC techniques. *Applied Microbiology and Biotechnology*, **2010**, 85, 813-21	5.7	6
24	Molecular and biochemical analysis of the system regulating the lytic/lysogenic cycle in the pneumococcal temperate phage MM1. *FEMS Microbiology Letters*, **2003**, 222, 193-7	2.9	6
23	Engineering a bzd cassette for the anaerobic bioconversion of aromatic compounds. *Microbial Biotechnology*, **2017**, 10, 1418-1425	6.3	5
22	Genome of the Psychrophilic Bacterium Bacillus psychrosaccharolyticus, a Potential Source of 2-Deoxyribosyltransferase for Industrial Nucleoside Synthesis. *Genome Announcements*, **2013**, 1,		5
21	Heterologous production and biochemical characterization of a new highly glucose tolerant GH1 β-glucosidase from Anoxybacillus thermarum. *Process Biochemistry*, **2020**, 99, 1-8	4.8	5

20	Production of 4-Ene-3-ketosteroids in Corynebacterium glutamicum. *Catalysts*, **2017**, 7, 316	4	4
19	Draft Genome Sequence of Actinoplanes utahensis NRRL 12052, a Microorganism Involved in Industrial Production of Pharmaceutical Intermediates. *Genome Announcements*, **2015**, 3,		4
18	A preliminary crystallographic study of recombinant NicX, an Fe(2+)-dependent 2,5-dihydroxypyridine dioxygenase from Pseudomonas putida KT2440. *Acta Crystallographica Section F: Structural Biology Communications*, **2010**, 66, 549-53		4
17	Reconstruction and expression of the autolytic gene from Clostridium acetobutylicum ATCC 824 in Escherichia coli. *FEMS Microbiology Letters*, **1992**, 74, 13-20	2.9	4
16	Production of 11β-hydroxysteroids from sterols in a single fermentation step by Mycolicibacterium smegmatis. *Microbial Biotechnology*, **2021**, 14, 2514-2524	6.3	4
15	Effect of Arthrospira supplementation on Oreochromis niloticus gut microbiota and flesh quality. *Aquaculture Research*, **2019**, 50, 1448-1458	1.9	3
14	Crystallization of the pneumococcal autolysin LytC: in-house phasing using novel lanthanide complexes. *Acta Crystallographica Section F: Structural Biology Communications*, **2010**, 66, 448-51		3
13	Bacterial Metabolism of Steroids **2017**, 1-22		3
12	Crystal structure of CbpF, a bifunctional choline-binding protein and autolysis regulator from Streptococcus pneumoniae. *EMBO Reports*, **2009**, 10, 413-413	6.5	2
11	Crystallization and preliminary X-ray diffraction studies of the complete modular endolysin from Cp-1, a phage infecting Streptococcus pneumoniae. *Acta Crystallographica Section D: Biological Crystallography*, **2002**, 58, 1487-9		2
10	Effect of spirulina (Arthrospira platensis) supplementation on tilapia (Oreochromis niloticus) growth and stress responsiveness under hypoxia. *Spanish Journal of Agricultural Research*, **2018**, 16, e0606	1.1	2
9	Identification of trans-AT polyketide clusters in two marine bacteria reveals cryptic similarities between distinct symbiosis factors. *Environmental Microbiology*, **2021**, 23, 2509-2521	5.2	2
8	Engineering the Steroid Hydroxylating System from in. *Microorganisms*, **2021**, 9,	4.9	2
7	Complete mitochondrial genome of Polymastia littoralis (Demospongiae, Polymastiidae). *Mitochondrial DNA*, **2016**, 27, 312-3		1
6	Bacterial Metabolism of Steroids **2019**, 315-336		1
5	Selection of Ceratitis capitata (Diptera: Tephritidae) specific recombinant monoclonal phage display antibodies for prey detection analysis. *PLoS ONE*, **2012**, 7, e51440	3.7	1
4	Degradation of Aromatic Compounds in Pseudomonas: A Systems Biology View **2019**, 639-687		0
3	production of pederin by labrenzin pathway expansion.. *Metabolic Engineering Communications*, **2022**, 14, e00198	6.5	0

2	Inhibition of Recombinant D-Amino Acid Oxidase from Trigonopsis variabilis by Salts. *Enzyme Research*, **2011**, 2011, 158541	2.4
1	A natural non-protein low molecular weight cAMP-dependent protein kinase inhibitor from the insect Ceratitis capitata. *Insect Biochemistry*, **1987**, 17, 329-333	