

Jose Luis Garcia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	production of pederin by labrenzin pathway expansion.. <i>Metabolic Engineering Communications</i> , 2022 , 14, e00198	6.5	0
162	Identification of trans-AT polyketide clusters in two marine bacteria reveals cryptic similarities between distinct symbiosis factors. <i>Environmental Microbiology</i> , 2021 , 23, 2509-2521	5.2	2
161	Engineering the Steroid Hydroxylating System from in. <i>Microorganisms</i> , 2021 , 9,	4.9	2
160	Production of 11 β hydroxysteroids from sterols in a single fermentation step by Mycolicibacterium smegmatis. <i>Microbial Biotechnology</i> , 2021 , 14, 2514-2524	6.3	4
159	Unraveling the 17 β Estradiol Degradation Pathway in NBRC 16725. <i>Frontiers in Microbiology</i> , 2020 , 11, 588300	5.7	11
158	Heterologous production and biochemical characterization of a new highly glucose tolerant GH1 β glucosidase from Anoxybacillus thermarum. <i>Process Biochemistry</i> , 2020 , 99, 1-8	4.8	5
157	Degradation of Aromatic Compounds in Pseudomonas: A Systems Biology View 2019 , 639-687		0
156	Bacterial Metabolism of Steroids 2019 , 315-336		1
155	Effect of Arthrospira supplementation on Oreochromis niloticus gut microbiota and flesh quality. <i>Aquaculture Research</i> , 2019 , 50, 1448-1458	1.9	3
154	Quantifying dynamic mechanisms of auto-regulation in Escherichia coli with synthetic promoter in response to varying external phosphate levels. <i>Scientific Reports</i> , 2019 , 9, 2076	4.9	7
153	Identification and expression of the 11 β steroid hydroxylase from Cochliobolus lunatus in Corynebacterium glutamicum. <i>Microbial Biotechnology</i> , 2019 , 12, 856-868	6.3	8
152	Testosterone Degradative Pathway of. <i>Genes</i> , 2019 , 10,	4.2	17
151	Genome of sp. PHM005 Reveals a Complete and Active -AT PKS Gene Cluster for the Biosynthesis of Labrenzin. <i>Frontiers in Microbiology</i> , 2019 , 10, 2561	5.7	12
150	One-Step Immobilization and Stabilization of a Recombinant Enterococcus faecium DBFIQ E36 L-Arabinose Isomerase for D-Tagatose Synthesis. <i>Applied Biochemistry and Biotechnology</i> , 2019 , 188, 310-325	3.2	8
149	Unravelling a new catabolic pathway of C-19 steroids in Mycobacterium smegmatis. <i>Environmental Microbiology</i> , 2018 , 20, 1815-1827	5.2	7
148	New Insights on Steroid Biotechnology. <i>Frontiers in Microbiology</i> , 2018 , 9, 958	5.7	54
147	Effect of spirulina (Arthrospira platensis) supplementation on tilapia (Oreochromis niloticus) growth and stress responsiveness under hypoxia. <i>Spanish Journal of Agricultural Research</i> , 2018 , 16, e0606	1.1	2

146	FLYCOP: metabolic modeling-based analysis and engineering microbial communities. <i>Bioinformatics</i> , 2018 , 34, i954-i963	7.2	21
145	Molecular characterization of a new gene cluster for steroid degradation in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2017 , 19, 2546-2563	5.2	12
144	Unravelling the pleiotropic role of the MceG ATPase in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2017 , 19, 2564-2576	5.2	12
143	Microalgae, old sustainable food and fashion nutraceuticals. <i>Microbial Biotechnology</i> , 2017 , 10, 1017-1024	4.3	171
142	Engineering a bzd cassette for the anaerobic bioconversion of aromatic compounds. <i>Microbial Biotechnology</i> , 2017 , 10, 1418-1425	6.3	5
141	Molecular and functional analysis of the mce4 operon in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2017 , 19, 3689-3699	5.2	13
140	<i>Mycobacterium smegmatis</i> is a suitable cell factory for the production of steroidal synthons. <i>Microbial Biotechnology</i> , 2017 , 10, 138-150	6.3	28
139	Engineering <i>Mycobacterium smegmatis</i> for testosterone production. <i>Microbial Biotechnology</i> , 2017 , 10, 151-161	6.3	27
138	Engineering the l-Arabinose Isomerase from <i>Enterococcus Faecium</i> for d-Tagatose Synthesis. <i>Molecules</i> , 2017 , 22,	4.8	8
137	Production of 4-Ene-3-ketosteroids in <i>Corynebacterium glutamicum</i> . <i>Catalysts</i> , 2017 , 7, 316	4	4
136	Bacterial Metabolism of Steroids 2017 , 1-22		3
135	Complete mitochondrial genome of <i>Polymastia littoralis</i> (Demospongiae, Polymastiidae). <i>Mitochondrial DNA</i> , 2016 , 27, 312-3		1
134	Whole genome sequencing of turbot (<i>Scophthalmus maximus</i> ; Pleuronectiformes): a fish adapted to demersal life. <i>DNA Research</i> , 2016 , 23, 181-92	4.5	103
133	Genome sequence of the olive tree, <i>Olea europaea</i> . <i>GigaScience</i> , 2016 , 5, 29	7.6	130
132	Engineering synthetic bacterial consortia for enhanced desulfurization and revalorization of oil sulfur compounds. <i>Metabolic Engineering</i> , 2016 , 35, 46-54	9.7	58
131	Extreme genomic erosion after recurrent demographic bottlenecks in the highly endangered Iberian lynx. <i>Genome Biology</i> , 2016 , 17, 251	18.3	85
130	Genome and transcriptome analysis of the Mesoamerican common bean and the role of gene duplications in establishing tissue and temporal specialization of genes. <i>Genome Biology</i> , 2016 , 17, 32	18.3	124
129	Whole-genome analysis of <i>Azoarcus</i> sp. strain CIB provides genetic insights to its different lifestyles and predicts novel metabolic features. <i>Systematic and Applied Microbiology</i> , 2015 , 38, 462-71	4.2	49

128	1,3-Propanediol production by NRRL-B199 from glycerol. Medium composition and operational conditions. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015 , 6, 100-107	5.3	14
127	Engineering alternative isobutanol production platforms. <i>AMB Express</i> , 2015 , 5, 119	4.1	18
126	New challenges for syngas fermentation: towards production of biopolymers. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1735-1751	3.5	47
125	Genome Sequence of <i>Pseudomonas azelaica</i> Strain Aramco J. <i>Genome Announcements</i> , 2015 , 3,		6
124	Overexpression of penicillin V acylase from <i>Streptomyces lavendulae</i> and elucidation of its catalytic residues. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1225-33	4.8	15
123	Draft Genome Sequence of <i>Actinoplanes utahensis</i> NRRL 12052, a Microorganism Involved in Industrial Production of Pharmaceutical Intermediates. <i>Genome Announcements</i> , 2015 , 3,		4
122	Characterization of the KstR2 regulator responsible of the lower cholesterol degradative pathway in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology Reports</i> , 2015 , 7, 155-63	3.7	8
121	PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2014 , 35, 14-24	15.6	50
120	Insights on the regulation of the phenylacetate degradation pathway from <i>Escherichia coli</i> . <i>Environmental Microbiology Reports</i> , 2014 , 6, 239-50	3.7	19
119	Clinical evaluation of a disposable amperometric magneto-genosensor for the detection and identification of <i>Streptococcus pneumoniae</i> . <i>Journal of Microbiological Methods</i> , 2014 , 103, 25-8	2.8	14
118	Plasmids as Tools for Containment. <i>Microbiology Spectrum</i> , 2014 , 2,	8.9	7
117	Deciphering the transcriptional regulation of cholesterol catabolic pathway in mycobacteria: identification of the inducer of KstR repressor. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17576-88	5.4	24
116	Pipelines for New Chemicals: a strategy to create new value chains and stimulate innovation-based economic revival in Southern European countries. <i>Environmental Microbiology</i> , 2014 , 16, 9-18	5.2	11
115	A highly conserved mycobacterial cholesterol catabolic pathway. <i>Environmental Microbiology</i> , 2013 , 15, 2342-59	5.2	40
114	Genome of the Psychrophilic Bacterium <i>Bacillus psychrosaccharolyticus</i> , a Potential Source of 2-Deoxyribosyltransferase for Industrial Nucleoside Synthesis. <i>Genome Announcements</i> , 2013 , 1,		5
113	Reward for <i>Bdellovibrio bacteriovorus</i> for preying on a polyhydroxyalkanoate producer. <i>Environmental Microbiology</i> , 2013 , 15, 1204-15	5.2	23
112	Identification of a missing link in the evolution of an enzyme into a transcriptional regulator. <i>PLoS ONE</i> , 2013 , 8, e57518	3.7	11
111	Catabolism and biotechnological applications of cholesterol degrading bacteria. <i>Microbial Biotechnology</i> , 2012 , 5, 679-99	6.3	99

110	Cholesterol metabolism in Mycobacterium smegmatis. <i>Environmental Microbiology Reports</i> , 2012 , 4, 168-82	3.7	64
109	Genome sequence of the methanotrophic poly-β-hydroxybutyrate producer Methylocystis parvus OBBP. <i>Journal of Bacteriology</i> , 2012 , 194, 5709-10	3.5	23
108	Identification and biochemical evidence of a medium-chain-length polyhydroxyalkanoate depolymerase in the Bdellovibrio bacteriovorus predatory hydrolytic arsenal. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 6017-26	4.8	49
107	Bacterial degradation of benzoate: cross-regulation between aerobic and anaerobic pathways. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10494-10508	5.4	66
106	Selection of Ceratitis capitata (Diptera: Tephritidae) specific recombinant monoclonal phage display antibodies for prey detection analysis. <i>PLoS ONE</i> , 2012 , 7, e51440	3.7	1
105	A finely tuned regulatory circuit of the nicotinic acid degradation pathway in Pseudomonas putida. <i>Environmental Microbiology</i> , 2011 , 13, 1718-32	5.2	19
104	Unravelling the gallic acid degradation pathway in bacteria: the gal cluster from Pseudomonas putida. <i>Molecular Microbiology</i> , 2011 , 79, 359-74	4.1	58
103	Controlled autolysis facilitates the polyhydroxyalkanoate recovery in Pseudomonas putida KT2440. <i>Microbial Biotechnology</i> , 2011 , 4, 533-47	6.3	64
102	Characterization of the KstR-dependent promoter of the gene for the first step of the cholesterol degradative pathway in Mycobacterium smegmatis. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 2670-2680	2.9	24
101	Development of amperometric magnetogenosensors coupled to asymmetric PCR for the specific detection of Streptococcus pneumoniae. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 2413-20	4.4	28
100	Disruption of β-oxidation pathway in Pseudomonas putida KT2442 to produce new functionalized PHAs with thioester groups. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1583-98	5.7	71
99	Inhibition of Recombinant D-Amino Acid Oxidase from Trigonopsis variabilis by Salts. <i>Enzyme Research</i> , 2011 , 2011, 158541	2.4	
98	Insights into pneumococcal fratricide from the crystal structures of the modular killing factor LytC. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 576-81	17.6	53
97	The turnover of medium-chain-length polyhydroxyalkanoates in Pseudomonas putida KT2442 and the fundamental role of PhaZ depolymerase for the metabolic balance. <i>Environmental Microbiology</i> , 2010 , 12, 207-21	5.2	87
96	The PhaD regulator controls the simultaneous expression of the pha genes involved in polyhydroxyalkanoate metabolism and turnover in Pseudomonas putida KT2442. <i>Environmental Microbiology</i> , 2010 , 12, 1591-603	5.2	49
95	Identification of the Geobacter metallireducens bamVW two-component system, involved in transcriptional regulation of aromatic degradation. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 383-5	4.8	16
94	Biochemical characterization of the transcriptional regulator BzdR from Azoarcus sp. CIB. <i>Journal of Biological Chemistry</i> , 2010 , 285, 35694-705	5.4	23
93	Monitoring Escherichia coli growth in M63 media by ultrasonic noninvasive methods and correlation with spectrophotometric and HPLC techniques. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 813-21	5.7	6

92	Disposable amperometric magnetoimmunosensors for the specific detection of <i>Streptococcus pneumoniae</i> . <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1225-30	11.8	35
91	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from <i>E. coli</i> . <i>Process Biochemistry</i> , 2010 , 45, 390-398	4.8	50
90	Crystallization of the pneumococcal autolysin LytC: in-house phasing using novel lanthanide complexes. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 448-51		3
89	A preliminary crystallographic study of recombinant NicX, an Fe(2+)-dependent 2,5-dihydroxypyridine dioxygenase from <i>Pseudomonas putida</i> KT2440. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 549-53		4
88	3-Hydroxyphenylpropionate and phenylpropionate are synergistic activators of the MhpR transcriptional regulator from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 21218-28	5.4	24
87	Analysis of dibenzothiophene desulfurization in a recombinant <i>Pseudomonas putida</i> strain. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 875-7	4.8	31
86	Cloning, expression, and characterization of a peculiar choline-binding beta-galactosidase from <i>Streptococcus mitis</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5972-80	4.8	10
85	Crystal structure of CbpF, a bifunctional choline-binding protein and autolysis regulator from <i>Streptococcus pneumoniae</i> . <i>EMBO Reports</i> , 2009 , 10, 246-51	6.5	43
84	Crystal structure of CbpF, a bifunctional choline-binding protein and autolysis regulator from <i>Streptococcus pneumoniae</i> . <i>EMBO Reports</i> , 2009 , 10, 413-413	6.5	2
83	Anaerobic catabolism of aromatic compounds: a genetic and genomic view. <i>Microbiology and Molecular Biology Reviews</i> , 2009 , 73, 71-133	13.2	312
82	Identification and analysis of a glutaryl-CoA dehydrogenase-encoding gene and its cognate transcriptional regulator from <i>Azoarcus</i> sp. CIB. <i>Environmental Microbiology</i> , 2008 , 10, 474-82	5.2	16
81	Deciphering the genetic determinants for aerobic nicotinic acid degradation: the nic cluster from <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11329-34	11.5	112
80	The role of FIS protein in the physiological control of the expression of the <i>Escherichia coli</i> meta-hpa operon. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 2151-2160	2.9	7
79	Insights into the structure-function relationships of pneumococcal cell wall lysozymes, LytC and Cpl-1. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28618-28	5.4	18
78	New insights into the BzdR-mediated transcriptional regulation of the anaerobic catabolism of benzoate in <i>Azoarcus</i> sp. CIB. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 306-316	2.9	11
77	The role of cofactor binding in tryptophan accessibility and conformational stability of His-tagged D-amino acid oxidase from <i>Trigonopsis variabilis</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007 , 1774, 556-65	4	13
76	Elucidation of the molecular recognition of bacterial cell wall by modular pneumococcal phage endolysin CPL-1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24990-9	5.4	53
75	Production of a Thermoresistant Alpha-galactosidase from <i>Thermus</i> sp. Strain T2 for Food Processing. <i>Food Biotechnology</i> , 2007 , 21, 91-103	2.2	11

74	Genetic modification of the penicillin G acylase surface to improve its reversible immobilization on ionic exchangers. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 312-9	4.8	37
73	Newly discovered penicillin acylase activity of aculeacin A acylase from <i>Actinoplanes utahensis</i> . <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5378-81	4.8	20
72	Characterization of the last step of the aerobic phenylacetic acid degradation pathway. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 357-365	2.9	39
71	Taking aim on bacterial pathogens: from phage therapy to enzybiotics. <i>Current Opinion in Microbiology</i> , 2007 , 10, 461-72	7.9	175
70	New tool for spreading proteins to the environment: Cry1Ab toxin immobilized to bioplastics. <i>Applied Microbiology and Biotechnology</i> , 2006 , 72, 88-93	5.7	21
69	Coregulation by phenylacetyl-coenzyme A-responsive PaaX integrates control of the upper and lower pathways for catabolism of styrene by <i>Pseudomonas</i> sp. strain Y2. <i>Journal of Bacteriology</i> , 2006 , 188, 4812-21	3.5	23
68	Genetic characterization of the phenylacetyl-coenzyme A oxygenase from the aerobic phenylacetic acid degradation pathway of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2006 , 72, 7422-6	4.8	28
67	Oxygen-dependent regulation of the central pathway for the anaerobic catabolism of aromatic compounds in <i>Azoarcus</i> sp. strain CIB. <i>Journal of Bacteriology</i> , 2006 , 188, 2343-54	3.5	16
66	Unravelling the structure of the pneumococcal autolytic lysozyme. <i>Biochemical Journal</i> , 2005 , 391, 41-9	3.8	13
65	Pneumococcal phosphorylcholine esterase, Pce, contains a metal binuclear center that is essential for substrate binding and catalysis. <i>Protein Science</i> , 2005 , 14, 3013-24	6.3	10
64	Molecular characterization of the safracin biosynthetic pathway from <i>Pseudomonas fluorescens</i> A2-2: designing new cytotoxic compounds. <i>Molecular Microbiology</i> , 2005 , 56, 144-54	4.1	84
63	Insights into pneumococcal pathogenesis from the crystal structure of the modular teichoic acid phosphorylcholine esterase Pce. <i>Nature Structural and Molecular Biology</i> , 2005 , 12, 533-8	17.6	75
62	Genomic sequence of the pathogenic and allergenic filamentous fungus <i>Aspergillus fumigatus</i> . <i>Nature</i> , 2005 , 438, 1151-6	50.4	1114
61	Molecular characterization of the gallate dioxygenase from <i>Pseudomonas putida</i> KT2440. The prototype of a new subgroup of extradiol dioxygenases. <i>Journal of Biological Chemistry</i> , 2005 , 280, 35382-90	5.4	48
60	BzdR, a repressor that controls the anaerobic catabolism of benzoate in <i>Azoarcus</i> sp. CIB, is the first member of a new subfamily of transcriptional regulators. <i>Journal of Biological Chemistry</i> , 2005 , 280, 10683-94	5.4	58
59	Allelic variation of polymorphic locus <i>lytB</i> , encoding a choline-binding protein, from streptococci of the mitis group. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8706-13	4.8	13
58	Stabilization of a multimeric beta-galactosidase from <i>Thermus</i> sp. strain T2 by immobilization on novel heterofunctional epoxy supports plus aldehyde-dextran cross-linking. <i>Biotechnology Progress</i> , 2004 , 20, 388-92	2.8	43
57	Stabilization of penicillin G acylase from <i>Escherichia coli</i> : site-directed mutagenesis of the protein surface to increase multipoint covalent attachment. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1249-51	4.8	93

56	Cloning of the authentic bovine gene encoding pepsinogen a and its expression in microbial cells. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 2588-95	4.8	8
55	The PaaX repressor, a link between penicillin G acylase and the phenylacetyl-coenzyme A catabolon of <i>Escherichia coli</i> W. <i>Journal of Bacteriology</i> , 2004 , 186, 2215-20	3.5	21
54	The bzd gene cluster, coding for anaerobic benzoate catabolism, in <i>Azoarcus</i> sp. strain CIB. <i>Journal of Bacteriology</i> , 2004 , 186, 5762-74	3.5	92
53	Structural and thermodynamic characterization of Pal, a phage natural chimeric lysin active against pneumococci. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43697-707	5.4	30
52	Aromatic metabolism versus carbon availability: the regulatory network that controls catabolism of less-preferred carbon sources in <i>Escherichia coli</i> . <i>FEMS Microbiology Reviews</i> , 2004 , 28, 503-18	15.1	20
51	Selective and mild adsorption of large proteins on lowly activated immobilized metal ion affinity chromatography matrices. Purification of multimeric thermophilic enzymes overexpressed in <i>Escherichia coli</i> . <i>Journal of Chromatography A</i> , 2004 , 1055, 93-8	4.5	23
50	In vivo immobilization of fusion proteins on bioplastics by the novel tag BioF. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 3205-12	4.8	82
49	The homogentisate pathway: a central catabolic pathway involved in the degradation of L-phenylalanine, L-tyrosine, and 3-hydroxyphenylacetate in <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2004 , 186, 5062-77	3.5	190
48	Construction of a chimeric thermostable pyrophosphatase to facilitate its purification and immobilization by using the choline-binding tag. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4642-7 ⁸	4.8	8
47	VO1, a temperate bacteriophage of the type 19A multiresistant epidemic 8249 strain of <i>Streptococcus pneumoniae</i> : analysis of variability of lytic and putative C5 methyltransferase genes. <i>Microbial Drug Resistance</i> , 2003 , 9, 7-15	2.9	20
46	Regulation of the mhp cluster responsible for 3-(3-hydroxyphenyl)propionic acid degradation in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2003 , 278, 27575-85	5.4	33
45	Design of catabolic cassettes for styrene biodegradation. <i>Antonie Van Leeuwenhoek</i> , 2003 , 84, 17-24	2.1	14
44	Structural basis for selective recognition of pneumococcal cell wall by modular endolysin from phage Cp-1. <i>Structure</i> , 2003 , 11, 1239-49	5.2	135
43	Molecular and biochemical analysis of the system regulating the lytic/lysogenic cycle in the pneumococcal temperate phage MM1. <i>FEMS Microbiology Letters</i> , 2003 , 222, 193-7	2.9	6
42	One-step purification, covalent immobilization, and additional stabilization of a thermophilic poly-His-tagged beta-galactosidase from <i>Thermus</i> sp. strain T2 by using novel heterofunctional chelate-epoxy Sepabeads. <i>Biomacromolecules</i> , 2003 , 4, 107-13	6.9	76
41	Genetic characterization of the styrene lower catabolic pathway of <i>Pseudomonas</i> sp. strain Y2. <i>Gene</i> , 2003 , 319, 71-83	3.8	28
40	Molecular determinants of the hpa regulatory system of <i>Escherichia coli</i> : the HpaR repressor. <i>Nucleic Acids Research</i> , 2003 , 31, 6598-609	20.1	45
39	Genome organization and molecular analysis of the temperate bacteriophage MM1 of <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 2362-8	3.5	44

38	Overproduction of <i>Thermus</i> sp. Strain T2 beta-galactosidase in <i>Escherichia coli</i> and preparation by using tailor-made metal chelate supports. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1967-72	4.8	37
37	Characterization of Ejl, the cell-wall amidase coded by the pneumococcal bacteriophage Ej-1. <i>Protein Science</i> , 2002 , 11, 1788-99	6.3	18
36	Crystallization and preliminary X-ray diffraction studies of the complete modular endolysin from Cp-1, a phage infecting <i>Streptococcus pneumoniae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 1487-9		2
35	Genomic analysis of the aromatic catabolic pathways from <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2002 , 4, 824-41	5.2	380
34	Molecular peculiarities of the <i>lytA</i> gene isolated from clinical pneumococcal strains that are bile insoluble. <i>Journal of Clinical Microbiology</i> , 2002 , 40, 2545-54	9.7	44
33	Purification and polar localization of pneumococcal LytB, a putative endo-beta-N-acetylglucosaminidase: the chain-dispersing murein hydrolase. <i>Journal of Bacteriology</i> , 2002 , 184, 4988-5000	3.5	97
32	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 <i>E. coli</i> beta-galactosidases. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4804-10	16.4	78
31	Genetically engineered <i>Pseudomonas</i> : a factory of new bioplastics with broad applications. <i>Environmental Microbiology</i> , 2001 , 3, 612-8	5.2	66
30	The phenylacetyl-CoA catabolon: a complex catabolic unit with broad biotechnological applications. <i>Molecular Microbiology</i> , 2001 , 39, 1434-42	4.1	132
29	One-step purification, covalent immobilization, and additional stabilization of poly-His-tagged proteins using novel heterofunctional chelate-epoxy supports. <i>Biotechnology and Bioengineering</i> , 2001 , 76, 269-76	4.9	91
28	Affinity chromatography of polyhistidine tagged enzymes. New dextran-coated immobilized metal ion affinity chromatography matrices for prevention of undesired multipoint adsorptions. <i>Journal of Chromatography A</i> , 2001 , 915, 97-106	4.5	68
27	Stabilization of a tetrameric enzyme (amino acid ester hydrolase from <i>Acetobacter turbidans</i>) enables a very improved performance of ampicillin synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001 , 11, 633-638		17
26	Biotransformations catalyzed by multimeric enzymes: stabilization of tetrameric ampicillin acylase permits the optimization of ampicillin synthesis under dissociation conditions. <i>Biomacromolecules</i> , 2001 , 2, 95-104	6.9	73
25	Microbial synthesis of poly(beta-hydroxyalkanoates) bearing phenyl groups from <i>pseudomonas putida</i> : chemical structure and characterization. <i>Biomacromolecules</i> , 2001 , 2, 562-7	6.9	41
24	A gene containment strategy based on a restriction-modification system. <i>Environmental Microbiology</i> , 2000 , 2, 555-63	5.2	22
23	Enhancing desulphurization by engineering a flavin reductase-encoding gene cassette in recombinant biocatalysts. <i>Environmental Microbiology</i> , 2000 , 2, 687-94	5.2	72
22	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. <i>FEBS Journal</i> , 2000 , 267, 3965-78		43
21	Engineering the D-amino acid oxidase from <i>Trigonopsis variabilis</i> to facilitate its overproduction in <i>Escherichia coli</i> and its downstream processing by tailor-made metal chelate supports. <i>Enzyme and Microbial Technology</i> , 1999 , 25, 88-95	3.8	31

20	LytB, a novel pneumococcal murein hydrolase essential for cell separation. <i>Molecular Microbiology</i> , 1999 , 31, 1275-81	4.1	126
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