

# Jose Luis Garcia

## List of Publications by Year in descending order

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165  
papers

9,863  
citations

30070

54  
h-index

42399

92  
g-index

169  
all docs

169  
docs citations

169  
times ranked

10744  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo production of pederin by labrenzin pathway expansion. <i>Metabolic Engineering Communications</i> , 2022, 14, e00198.	3.6	3
2	Production of 11 $\beta$ -hydroxysteroids from sterols in a single fermentation step by <i>Mycolicibacterium smegmatis</i> . <i>Microbial Biotechnology</i> , 2021, 14, 2514-2524.	4.2	12
3	Identification of <i>trans</i> -polyketide clusters in two marine bacteria reveals cryptic similarities between distinct symbiosis factors. <i>Environmental Microbiology</i> , 2021, 23, 2509-2521.	3.8	9
4	Engineering the Steroid Hydroxylating System from <i>Cochliobolus lunatus</i> in <i>Mycolicibacterium smegmatis</i> . <i>Microorganisms</i> , 2021, 9, 1499.	3.6	7
5	Identification of the EdcR Estrogen-Dependent Repressor in <i>Caenibius tardaugsens</i> NBRC 16725: Construction of a Cellular Estradiol Biosensor. <i>Genes</i> , 2021, 12, 1846.	2.4	3
6	Unraveling the 17 $\beta$ -Estradiol Degradation Pathway in <i>Novosphingobium tardaugsens</i> NBRC 16725. <i>Frontiers in Microbiology</i> , 2020, 11, 588300.	3.5	29
7	Heterologous production and biochemical characterization of a new highly glucose tolerant GH1 $\beta$ -glucosidase from <i>Anoxybacillus thermarum</i> . <i>Process Biochemistry</i> , 2020, 99, 1-8.	3.7	11
8	Identification and expression of the 11 $\beta$ -steroid hydroxylase from <i>Cochliobolus lunatus</i> in <i>Corynebacterium glutamicum</i> . <i>Microbial Biotechnology</i> , 2019, 12, 856-868.	4.2	15
9	Degradation of Aromatic Compounds in <i>Pseudomonas</i> : A Systems Biology View. , 2019, , 639-687.		2
10	Bacterial Metabolism of Steroids. , 2019, , 315-336.		4
11	The urgent need for microbiology literacy in society. <i>Environmental Microbiology</i> , 2019, 21, 1513-1528.	3.8	99
12	Effect of <i>Arthrospira</i> supplementation on <i>Oreochromis niloticus</i> gut microbiota and flesh quality. <i>Aquaculture Research</i> , 2019, 50, 1448-1458.	1.8	6
13	Quantifying dynamic mechanisms of auto-regulation in <i>Escherichia coli</i> with synthetic promoter in response to varying external phosphate levels. <i>Scientific Reports</i> , 2019, 9, 2076.	3.3	12
14	Testosterone Degradative Pathway of <i>Novosphingobium tardaugsens</i> . <i>Genes</i> , 2019, 10, 871.	2.4	30
15	Genome of <i>Labrenzia</i> sp. PHM005 Reveals a Complete and Active <i>trans</i> -AT PKS Gene Cluster for the Biosynthesis of Labrenzin. <i>Frontiers in Microbiology</i> , 2019, 10, 2561.	3.5	18
16	One-Step Immobilization and Stabilization of a Recombinant <i>Enterococcus faecium</i> DBFIQ E36 l-Arabinose Isomerase for d-Tagatose Synthesis. <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 310-325.	2.9	9
17	Unravelling a new catabolic pathway of C $\alpha$ 19 steroids in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2018, 20, 1815-1827.	3.8	11
18	FLYCOP: metabolic modeling-based analysis and engineering microbial communities. <i>Bioinformatics</i> , 2018, 34, i954-i963.	4.1	37

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19	New Insights on Steroid Biotechnology. <i>Frontiers in Microbiology</i> , 2018, 9, 958.	3.5	124
20	Effect of spirulina ( <i>Arthrospira platensis</i> ) supplementation on tilapia ( <i>Oreochromis niloticus</i> ) growth and stress responsiveness under hypoxia. <i>Spanish Journal of Agricultural Research</i> , 2018, 16, e0606.	0.6	3
21	Molecular characterization of a new gene cluster for steroid degradation in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2017, 19, 2546-2563.	3.8	23
22	Unravelling the pleiotropic role of the <i>MceG</i> ATPase in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2017, 19, 2564-2576.	3.8	20
23	Microalgae, old sustainable food and fashion nutraceuticals. <i>Microbial Biotechnology</i> , 2017, 10, 1017-1024.	4.2	272
24	Engineering a bzd cassette for the anaerobic bioconversion of aromatic compounds. <i>Microbial Biotechnology</i> , 2017, 10, 1418-1425.	4.2	6
25	Molecular and functional analysis of the <i>mce4</i> operon in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology</i> , 2017, 19, 3689-3699.	3.8	21
26	<i>Mycobacterium smegmatis</i> is a suitable cell factory for the production of steroidal synthons. <i>Microbial Biotechnology</i> , 2017, 10, 138-150.	4.2	49
27	Engineering <i>Mycobacterium smegmatis</i> for testosterone production. <i>Microbial Biotechnology</i> , 2017, 10, 151-161.	4.2	43
28	Engineering the l-Arabinose Isomerase from <i>Enterococcus Faecium</i> for d-Tagatose Synthesis. <i>Molecules</i> , 2017, 22, 2164.	3.8	10
29	Production of 4-Eno-3-ketosteroids in <i>Corynebacterium glutamicum</i> . <i>Catalysts</i> , 2017, 7, 316.	3.5	9
30	Bacterial Metabolism of Steroids. , 2017, , 1-22.		5
31	Extreme genomic erosion after recurrent demographic bottlenecks in the highly endangered Iberian lynx. <i>Genome Biology</i> , 2016, 17, 251.	8.8	131
32	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.	8.8	166
33	Whole genome sequencing of turbot ( <i>Scophthalmus maximus</i> ; Pleuronectiformes): a fish adapted to demersal life. <i>DNA Research</i> , 2016, 23, 181-192.	3.4	150
34	Genome sequence of the olive tree, <i>Olea europaea</i> . <i>GigaScience</i> , 2016, 5, 29.	6.4	201
35	Engineering synthetic bacterial consortia for enhanced desulfurization and revalorization of oil sulfur compounds. <i>Metabolic Engineering</i> , 2016, 35, 46-54.	7.0	85
36	Complete mitochondrial genome of <i>Polymastia littoralis</i> (Demospongiae, Polymastiidae). <i>Mitochondrial DNA</i> , 2016, 27, 312-313.	0.6	1

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37	Engineering alternative isobutanol production platforms. <i>AMB Express</i> , 2015, 5, 119.	3.0	21
38	New challenges for syngas fermentation: towards production of biopolymers. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1735-1751.	3.2	53
39	Genome Sequence of <i>Pseudomonas azelaica</i> Strain Aramco J. <i>Genome Announcements</i> , 2015, 3, .	0.8	8
40	Overexpression of Penicillin V Acylase from <i>Streptomyces lavendulae</i> and Elucidation of Its Catalytic Residues. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1225-1233.	3.1	17
41	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, .	0.8	4
42	Characterization of the <i>KstR</i> <sup>2</sup> regulator responsible of the lower cholesterol degradative pathway in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology Reports</i> , 2015, 7, 155-163.	2.4	10
43	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, 462-471.	2.8	73
44	1,3-Propanediol production by <i>Klebsiella oxytoca</i> NRRL-B199 from glycerol. Medium composition and operational conditions. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 6, 100-107.	4.4	17
45	Deciphering the Transcriptional Regulation of Cholesterol Catabolic Pathway in Mycobacteria. <i>Journal of Biological Chemistry</i> , 2014, 289, 17576-17588.	3.4	32
46	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.	3.8	16
47	PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2014, 35, 14-24.	11.4	63
48	Insights on the regulation of the phenylacetate degradation pathway from <i>Escherichia coli</i> . <i>Environmental Microbiology Reports</i> , 2014, 6, 239-250.	2.4	27
49	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, 25-28.	1.6	17
50	Plasmids as Tools for Containment. <i>Microbiology Spectrum</i> , 2014, 2, .	3.0	10
51	A highly conserved mycobacterial cholesterol catabolic pathway. <i>Environmental Microbiology</i> , 2013, 15, 2342-2359.	3.8	54
52	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, .	0.8	6
53	Reward for <i>Bdellovibrio bacteriovorus</i> for preying on a polyhydroxyalkanoate producer. <i>Environmental Microbiology</i> , 2013, 15, 1204-1215.	3.8	29
54	Identification of a Missing Link in the Evolution of an Enzyme into a Transcriptional Regulator. <i>PLoS ONE</i> , 2013, 8, e57518.	2.5	13

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55	Genome Sequence of the Methanotrophic Poly- $\beta$ -Hydroxybutyrate Producer <i>Methylocystis parvus</i> OBBP. <i>Journal of Bacteriology</i> , 2012, 194, 5709-5710.	2.2	31
56	Identification and Biochemical Evidence of a Medium-Chain-Length Polyhydroxyalkanoate Depolymerase in the <i>Bdellovibrio bacteriovorus</i> Predatory Hydrolytic Arsenal. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6017-6026.	3.1	62
57	Bacterial Degradation of Benzoate. <i>Journal of Biological Chemistry</i> , 2012, 287, 10494-10508.	3.4	91
58	Catabolism and biotechnological applications of cholesterol degrading bacteria. <i>Microbial Biotechnology</i> , 2012, 5, 679-699.	4.2	139
59	Cholesterol metabolism in <i>Mycobacterium smegmatis</i> . <i>Environmental Microbiology Reports</i> , 2012, 4, 168-182.	2.4	81
60	Selection of <i>Ceratitis capitata</i> (Diptera: Tephritidae) Specific Recombinant Monoclonal Phage Display Antibodies for Prey Detection Analysis. <i>PLoS ONE</i> , 2012, 7, e51440.	2.5	2
61	A finely tuned regulatory circuit of the nicotinic acid degradation pathway in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2011, 13, 1718-1732.	3.8	22
62	Unravelling the gallic acid degradation pathway in bacteria: the <i>gal</i> cluster from <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2011, 79, 359-374.	2.5	72
63	Controlled autolysis facilitates the polyhydroxyalkanoate recovery in <i>Pseudomonas putida</i> KT2440. <i>Microbial Biotechnology</i> , 2011, 4, 533-547.	4.2	75
64	Characterization of the KstR-dependent promoter of the gene for the first step of the cholesterol degradative pathway in <i>Mycobacterium smegmatis</i> . <i>Microbiology (United Kingdom)</i> , 2011, 157, 2670-2680.	1.8	31
65	Development of amperometric magnetogenosensors coupled to asymmetric PCR for the specific detection of <i>Streptococcus pneumoniae</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2413-2420.	3.7	30
66	Disruption of $\beta$ -oxidation pathway in <i>Pseudomonas putida</i> KT2442 to produce new functionalized PHAs with thioester groups. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1583-1598.	3.6	77
67	Inhibition of Recombinant D-Amino Acid Oxidase from <i>Trigonopsis variabilis</i> by Salts. <i>Enzyme Research</i> , 2011, 2011, 1-5.	1.8	0
68	Monitoring <i>Escherichia coli</i> growth in M63 media by ultrasonic noninvasive methods and correlation with spectrophotometric and HPLC techniques. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 813-821.	3.6	8
69	Disposable amperometric magnetoimmunosensors for the specific detection of <i>Streptococcus pneumoniae</i> . <i>Biosensors and Bioelectronics</i> , 2010, 26, 1225-1230.	10.1	40
70	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.	3.7	55
71	Crystallization of the pneumococcal autolysin LytC: in-house phasing using novel lanthanide complexes. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 448-451.	0.7	3
72	A preliminary crystallographic study of recombinant NicX, an Fe <sup>2+</sup> -dependent 2,5-dihydroxypyridine dioxygenase from <i>Pseudomonas putida</i> KT2440. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 549-553.	0.7	4

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73	Insights into pneumococcal fratricide from the crystal structures of the modular killing factor LytC. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 576-581.	8.2	57
74	The turnover of medium-chain-length polyhydroxyalkanoates in <i>Pseudomonas putida</i> KT2442 and the fundamental role of PhaZ depolymerase for the metabolic balance. <i>Environmental Microbiology</i> , 2010, 12, 207-221.	3.8	108
75	The PhaD regulator controls the simultaneous expression of the <i>pha</i> genes involved in polyhydroxyalkanoate metabolism and turnover in <i>Pseudomonas putida</i> KT2442. <i>Environmental Microbiology</i> , 2010, 12, 1591-1603.	3.8	59
76	Identification of the <i>Geobacter metallireducens</i> BamVW Two-Component System, Involved in Transcriptional Regulation of Aromatic Degradation. <i>Applied and Environmental Microbiology</i> , 2010, 76, 383-385.	3.1	23
77	Biochemical Characterization of the Transcriptional Regulator BzdR from <i>Azoarcus</i> sp. CIB. <i>Journal of Biological Chemistry</i> , 2010, 285, 35694-35705.	3.4	33
78	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, 21218-21228.	3.4	28
79	Analysis of Dibenzothiophene Desulfurization in a Recombinant <i>Pseudomonas putida</i> Strain. <i>Applied and Environmental Microbiology</i> , 2009, 75, 875-877.	3.1	34
80	Cloning, Expression, and Characterization of a Peculiar Choline-Binding $\beta$ -Galactosidase from <i>Streptococcus mitis</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 5972-5980.	3.1	10
81	Crystal structure of CbpF, a bifunctional choline-binding protein and autolysis regulator from <i>Streptococcus pneumoniae</i> . <i>EMBO Reports</i> , 2009, 10, 246-251.	4.5	56
82	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.	4.5	2
83	Characterization of Ejl, the cell-wall amidase coded by the pneumococcal bacteriophage Ej-1. <i>Protein Science</i> , 2009, 11, 1788-1799.	7.6	18
84	Anaerobic Catabolism of Aromatic Compounds: a Genetic and Genomic View. <i>Microbiology and Molecular Biology Reviews</i> , 2009, 73, 71-133.	6.6	378
85	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> , 2008, 20, 388-392.	2.6	44
86	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, 474-482.	3.8	20
87	Deciphering the genetic determinants for aerobic nicotinic acid degradation: The <i>nic</i> cluster from <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11329-11334.	7.1	136
88	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.	1.8	7
89	Insights into the Structure-Function Relationships of Pneumococcal Cell Wall Lysozymes, LytC and Cpl-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 28618-28628.	3.4	22
90	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.	1.8	15

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91	Elucidation of the Molecular Recognition of Bacterial Cell Wall by Modular Pneumococcal Phage Endolysin CPL-1. <i>Journal of Biological Chemistry</i> , 2007, 282, 24990-24999.	3.4	61
92	Production of a Thermoresistant Alpha-galactosidase from <i>Thermus</i> sp. Strain T2 for Food Processing. <i>Food Biotechnology</i> , 2007, 21, 91-103.	1.5	11
93	Genetic Modification of the Penicillin G Acylase Surface To Improve Its Reversible Immobilization on Ionic Exchangers. <i>Applied and Environmental Microbiology</i> , 2007, 73, 312-319.	3.1	41
94	Newly Discovered Penicillin Acylase Activity of Aculeacin A Acylase from <i>Actinoplanes utahensis</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 5378-5381.	3.1	20
95	Characterization of the last step of the aerobic phenylacetic acid degradation pathway. <i>Microbiology (United Kingdom)</i> , 2007, 153, 357-365.	1.8	55
96	Taking aim on bacterial pathogens: from phage therapy to enzybiotics. <i>Current Opinion in Microbiology</i> , 2007, 10, 461-472.	5.1	238
97	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, 556-565.	2.3	13
98	New tool for spreading proteins to the environment: Cry1Ab toxin immobilized to bioplastics. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 88-93.	3.6	22
99	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, 4812-4821.	2.2	29
100	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, 7422-7426.	3.1	36
101	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, 2343-2354.	2.2	19
102	Unravelling the structure of the pneumococcal autolytic lysozyme. <i>Biochemical Journal</i> , 2005, 391, 41-49.	3.7	13
103	Pneumococcal phosphorylcholine esterase, Pce, contains a metal binuclear center that is essential for substrate binding and catalysis. <i>Protein Science</i> , 2005, 14, 3013-3024.	7.6	10
104	Molecular characterization of the safracin biosynthetic pathway from <i>Pseudomonas fluorescens</i> A2-2: designing new cytotoxic compounds. <i>Molecular Microbiology</i> , 2005, 56, 144-154.	2.5	99
105	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, 533-538.	8.2	89
106	Genomic sequence of the pathogenic and allergenic filamentous fungus <i>Aspergillus fumigatus</i> . <i>Nature</i> , 2005, 438, 1151-1156.	27.8	1,272
107	Molecular Characterization of the Gallate Dioxygenase from <i>Pseudomonas putida</i> KT2440. <i>Journal of Biological Chemistry</i> , 2005, 280, 35382-35390.	3.4	53
108	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, 10683-10694.	3.4	77

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109	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, 8706-8713.	3.1	14
110	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, 1249-1251.	3.1	111
111	Cloning of the Authentic Bovine Gene Encoding Pepsinogen A and Its Expression in Microbial Cells. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2588-2595.	3.1	14
112	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, 2215-2220.	2.2	24
113	The <i>bzd</i> Gene Cluster, Coding for Anaerobic Benzoate Catabolism, in <i>Azoarcus</i> sp. Strain ClB. <i>Journal of Bacteriology</i> , 2004, 186, 5762-5774.	2.2	111
114	Structural and Thermodynamic Characterization of Pal, a Phage Natural Chimeric Lysin Active against Pneumococci. <i>Journal of Biological Chemistry</i> , 2004, 279, 43697-43707.	3.4	35
115	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, 503-518.	8.6	21
116	Selective and mild adsorption of large proteins on lowly activated immobilized metal ion affinity chromatography matrices. <i>Journal of Chromatography A</i> , 2004, 1055, 93-98.	3.7	24
117	In Vivo Immobilization of Fusion Proteins on Bioplastics by the Novel Tag BioF. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3205-3212.	3.1	88
118	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, 5062-5077.	2.2	225
119	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, 4642-4647.	3.1	10
120	Design of catabolic cassettes for styrene biodegradation. <i>Antonie Van Leeuwenhoek</i> , 2003, 84, 17-24.	1.7	15
121	Structural Basis for Selective Recognition of Pneumococcal Cell Wall by Modular Endolysin from Phage Cp-1. <i>Structure</i> , 2003, 11, 1239-1249.	3.3	149
122	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, 193-197.	1.8	6
123	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, 107-113.	5.4	78
124	Genetic characterization of the styrene lower catabolic pathway of <i>Pseudomonas</i> sp. strain Y2. <i>Gene</i> , 2003, 319, 71-83.	2.2	28
125	Molecular determinants of the hpa regulatory system of <i>Escherichia coli</i> : the HpaR repressor. <i>Nucleic Acids Research</i> , 2003, 31, 6598-6609.	14.5	62
126	Genome Organization and Molecular Analysis of the Temperate Bacteriophage MM1 of <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2003, 185, 2362-2368.	2.2	45

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127	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, 1967-1972.	3.1	38
128	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.	2.0	21
129	Regulation of the mhp Cluster Responsible for 3-(3-Hydroxyphenyl)propionic Acid Degradation in Escherichia coli. Journal of Biological Chemistry, 2003, 278, 27575-27585.	3.4	42
130	Molecular Peculiarities of the lytA Gene Isolated from Clinical Pneumococcal Strains That Are Bile Insoluble. Journal of Clinical Microbiology, 2002, 40, 2545-2554.	3.9	50
131	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.	2.2	111
132	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, 4804-4810.	13.7	85
133	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, 1487-1489.	2.5	2
134	Genomic analysis of the aromatic catabolic pathways from Pseudomonas putida KT2440. Environmental Microbiology, 2002, 4, 824-841.	3.8	448
135	Biotransformations Catalyzed by Multimeric Enzymes: Stabilization of Tetrameric Ampicillin Acylase Permits the Optimization of Ampicillin Synthesis under Dissociation Conditions. Biomacromolecules, 2001, 2, 95-104.	5.4	76
136	Microbial Synthesis of Poly( $\beta$ -hydroxyalkanoates) Bearing Phenyl Groups from Pseudomonas putida: Chemical Structure and Characterization. Biomacromolecules, 2001, 2, 562-567.	5.4	45
137	Genetically engineered Pseudomonas: a factory of new bioplastics with broad applications. Environmental Microbiology, 2001, 3, 612-618.	3.8	79
138	The phenylacetyl-CoA catabolon: a complex catabolic unit with broad biotechnological applications. Molecular Microbiology, 2001, 39, 1434-1442.	2.5	153
139	One-step purification, covalent immobilization, and additional stabilization of poly-His-tagged proteins using novel heterofunctional chelate-epoxy supports. Biotechnology and Bioengineering, 2001, 76, 269-276.	3.3	103
140	Affinity chromatography of polyhistidine tagged enzymes. Journal of Chromatography A, 2001, 915, 97-106.	3.7	75
141	Stabilization of a tetrameric enzyme ( $\beta$ -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.	1.8	18
142	A gene containment strategy based on a restriction-modification system. Environmental Microbiology, 2000, 2, 555-563.	3.8	26
143	Enhancing desulphurization by engineering a flavin reductase-encoding gene cassette in recombinant biocatalysts. Environmental Microbiology, 2000, 2, 687-694.	3.8	82
144	NMR investigations of protein-carbohydrate interactions. FEBS Journal, 2000, 267, 3965-3978.	0.2	46

#	ARTICLE	IF	CITATIONS
145	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.	3.2	37
146	LytB, a novel pneumococcal murein hydrolase essential for cell separation. <i>Molecular Microbiology</i> , 1999, 31, 1275-1277.	2.5	139
147	The molecular characterization of the first autolytic lysozyme of <i>Streptococcus pneumoniae</i> reveals evolutionary mobile domains. <i>Molecular Microbiology</i> , 1999, 33, 128-138.	2.5	114
148	Functionalization of Gold Surfaces for Specific and Reversible Attachment of a Fused $\beta$ -Galactosidase and Choline-Receptor Protein. <i>Journal of the American Chemical Society</i> , 1997, 119, 1043-1051.	13.7	92
149	Structural Characterization of the Unligated and Choline-bound Forms of the Major Pneumococcal Autolysin LytA Amidase. <i>Journal of Biological Chemistry</i> , 1996, 271, 29152-29161.	3.4	36
150	Structural Organization of the Major Autolysin from <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 6832-6838.	3.4	54
151	Stabilization of heterodimeric enzyme by multipoint covalent immobilization: Penicillin G acylase from <i>Kluyvera citrophila</i> . <i>Biotechnology and Bioengineering</i> , 1993, 42, 455-464.	3.3	73
152	Single-Step Purification on DEAE-Sephacel of Recombinant Polypeptides Produced in <i>Escherichia Coli</i> . <i>Nature Biotechnology</i> , 1992, 10, 795-798.	17.5	26
153	Role of Asp-9 and Glu-36 in the active site of the pneumococcal CPL1 lysozyme; an evolutionary perspective of lysozyme mechanism. <i>Biochemistry</i> , 1992, 31, 8495-8499.	2.5	20
154	Immobilization and single-step purification of fusion proteins using DEAE-cellulose. <i>FEBS Journal</i> , 1992, 203, 153-159.	0.2	86
155	Reconstruction and expression of the autolytic gene from <i>Clostridium acetobutylicum</i> ATCC 824 in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1992, 95, 13-20.	1.8	4
156	Structural studies of the lysozyme coded by the pneumococcal phage Cp-1. Conformational changes induced by choline. <i>FEBS Journal</i> , 1990, 187, 409-416.	0.2	31
157	Purification and characterization of the autolytic glycosidase of <i>streptococcus pneumoniae</i> . <i>Biochemical and Biophysical Research Communications</i> , 1989, 158, 251-256.	2.1	36
158	Characterization of genetic transformation in <i>Streptococcus oralis</i> NCTC 11427: Expression of the pneumococcal amidase in <i>S. oralis</i> using a new shuttle vector. <i>Molecular Genetics and Genomics</i> , 1988, 215, 53-57.	2.4	44
159	Structural requirements of choline derivatives for $\beta$ -conversion <sup>TM</sup> of pneumococcal amidase A new single-step procedure for purification of this autolysin. <i>FEBS Letters</i> , 1988, 232, 308-312.	2.8	87
160	A natural non-protein low molecular weight cAMP-dependent protein kinase inhibitor from the insect <i>Ceratitis capitata</i> . <i>Insect Biochemistry</i> , 1987, 17, 329-333.	1.8	0
161	Biological role of the pneumococcal amidase. Cloning of the <i>lytA</i> gene in <i>Streptococcus pneumoniae</i> . <i>FEBS Journal</i> , 1987, 164, 621-624.	0.2	92
162	The subunit I of the respiratory-chain NADH dehydrogenase from <i>Cephalosporium acremonium</i> : the evolution of a mitochondrial gene. <i>Current Genetics</i> , 1986, 10, 797-801.	1.7	8

#	ARTICLE	IF	CITATIONS
163	Isolation, characterization and physiological properties of an autolytic-deficient mutant of <i>Streptococcus pneumoniae</i> . <i>Molecular Genetics and Genomics</i> , 1986, 204, 237-242.	2.4	26
164	Searching for autolysin functions. Characterization of a pneumococcal mutant deleted in the <i>lytA</i> gene. <i>FEBS Journal</i> , 1986, 158, 289-293.	0.2	137
165	Cloning in <i>Escherichia coli</i> and molecular analysis of the sucrose system of the <i>Salmonella</i> plasmid SCR-53. <i>Molecular Genetics and Genomics</i> , 1985, 201, 575-577.	2.4	18