

Alexander SteinbÄ¼chel

List of Publications by Year in descending order

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348
papers

20,440
citations

9234

74
h-index

16605

123
g-index

375
all docs

375
docs citations

375
times ranked

11200
citing authors

#	ARTICLE	IF	CITATIONS
1	Diversity of bacterial polyhydroxyalkanoic acids. FEMS Microbiology Letters, 1995, 128, 219-228.	0.7	706
2	Genome sequence of the bioplastic-producing <i>Ralstonia eutropha</i> H16. Nature Biotechnology, 2006, 24, 1257-1262.	9.4	527
3	Bacterial and other biological systems for polyester production. Trends in Biotechnology, 1998, 16, 419-427.	4.9	468
4	Microdiesel: <i>Escherichia coli</i> engineered for fuel production. Microbiology (United Kingdom), 2006, 152, 2529-2536.	0.7	438
5	Metabolic engineering and pathway construction for biotechnological production of relevant polyhydroxyalkanoates in microorganisms. Biochemical Engineering Journal, 2003, 16, 81-96.	1.8	376
6	Increased diversification of polyhydroxyalkanoates by modification reactions for industrial and medical applications. Applied Microbiology and Biotechnology, 2007, 74, 1-12.	1.7	356
7	Biochemical and genetic analysis of PHA synthases and other proteins required for PHA synthesis. International Journal of Biological Macromolecules, 1999, 25, 3-19.	3.6	351
8	A Novel Bifunctional Wax Ester Synthase/Acyl-CoA:Diacylglycerol Acyltransferase Mediates Wax Ester and Triacylglycerol Biosynthesis in <i>Acinetobacter calcoaceticus</i> ADP1. Journal of Biological Chemistry, 2003, 278, 8075-8082.	1.6	341
9	Perspectives for Biotechnological Production and Utilization of Biopolymers: Metabolic Engineering of Polyhydroxyalkanoate Biosynthesis Pathways as a Successful Example. Macromolecular Bioscience, 2001, 1, 1-24.	2.1	327
10	Biology of the Metabolically Diverse Genus <i>Gordonia</i> . Applied and Environmental Microbiology, 2004, 70, 3195-3204.	1.4	276
11	A New Metabolic Link between Fatty Acid de Novo Synthesis and Polyhydroxyalkanoic Acid Synthesis. Journal of Biological Chemistry, 1998, 273, 24044-24051.	1.6	259
12	Considerations on the structure and biochemistry of bacterial polyhydroxyalkanoic acid inclusions. Canadian Journal of Microbiology, 1995, 41, 94-105.	0.8	258
13	Neutral Lipid Bodies in Prokaryotes: Recent Insights into Structure, Formation, and Relationship to Eukaryotic Lipid Depots. Journal of Bacteriology, 2005, 187, 3607-3619.	1.0	256
14	Fatty acid synthesis in <i>Escherichia coli</i> and its applications towards the production of fatty acid based biofuels. Biotechnology for Biofuels, 2014, 7, 7.	6.2	239
15	Biodegradation of Natural Rubber and Related Compounds: Recent Insights into a Hardly Understood Catabolic Capability of Microorganisms. Applied and Environmental Microbiology, 2005, 71, 2803-2812.	1.4	233
16	Polyhydroxyalkanoic acids. , 1991, , 123-213.		209
17	Poly(3-hydroxybutyrate) Granule-Associated Proteins: Impacts on Poly(3-hydroxybutyrate) Synthesis and Degradation. Biomacromolecules, 2005, 6, 552-560.	2.6	208
18	Mechanism of lipid-body formation in prokaryotes: how bacteria fatten up. Molecular Microbiology, 2004, 55, 750-763.	1.2	203

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19	Ralstonia eutropha Strain H16 as Model Organism for PHA Metabolism and for Biotechnological Production of Technically Interesting Biopolymers. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009, 16, 91-108.	1.0	193
20	Microalgae as bioreactors for bioplastic production. <i>Microbial Cell Factories</i> , 2011, 10, 81.	1.9	192
21	Regulation of phasin expression and polyhydroxyalkanoate (PHA) granule formation in <i>Ralstonia eutropha</i> H16. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2413-2426.	0.7	186
22	Occurrence, functions and biosynthesis of polyamides in microorganisms and biotechnological production. <i>Die Naturwissenschaften</i> , 2002, 89, 11-22.	0.6	185
23	Microbial Degradation of Poly(amino acid)s. <i>Biomacromolecules</i> , 2004, 5, 1166-1176.	2.6	175
24	Cloning and molecular analysis of the poly(3-hydroxyalkanoic acid) gene locus of <i>Pseudomonas aeruginosa</i> PAO1. <i>FEBS Journal</i> , 1992, 209, 15-30.	0.2	162
25	Identification of a new class of biopolymer: bacterial synthesis of a sulfur-containing polymer with thioester linkages. <i>Microbiology (United Kingdom)</i> , 2001, 147, 11-19.	0.7	162
26	Formation of poly(3-hydroxyalkanoates) by phototrophic and chemolithotrophic bacteria. <i>Archives of Microbiology</i> , 1991, 155, 415-421.	1.0	160
27	The Wax Ester Synthase/Acyl Coenzyme A:Diacylglycerol Acyltransferase from <i>Acinetobacter</i> sp. Strain ADP1: Characterization of a Novel Type of Acyltransferase. <i>Journal of Bacteriology</i> , 2005, 187, 1369-1376.	1.0	158
28	Metabolic characteristics of the species <i>Variovorax paradoxus</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 541-560.	1.7	149
29	Acyltransferases in Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2013, 77, 277-321.	2.9	145
30	Isolation of prokaryotic RNA and detection of specific mRNA with biotinylated probes. <i>Journal of Microbiological Methods</i> , 1990, 11, 73-81.	0.7	144
31	Role of Fatty Acid De Novo Biosynthesis in Polyhydroxyalkanoic Acid (PHA) and Rhamnolipid Synthesis by Pseudomonads: Establishment of the Transacylase (PhaC)-Mediated Pathway for PHA Biosynthesis in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 3102-3109.	1.4	143
32	PHA Recovery from Biomass. <i>Biomacromolecules</i> , 2013, 14, 2963-2972.	2.6	141
33	Application of enzymatically synthesized short-chain-length hydroxy fatty acid coenzyme A thioesters for assay of polyhydroxyalkanoic acid synthases. <i>Applied Microbiology and Biotechnology</i> , 1994, 40, 699-709.	1.7	140
34	<i>Gordonia polyisoprenivorans</i> sp. nov., a rubber-degrading actinomycete isolated from an automobile tyre. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 1999, 49, 1785-1791.	0.8	139
35	Biosynthesis of novel thermoplastic polythioesters by engineered <i>Escherichia coli</i> . <i>Nature Materials</i> , 2002, 1, 236-240.	13.3	138
36	The complex structure of polyhydroxybutyrate (PHB) granules: four orthologous and paralogous phasins occur in <i>Ralstonia eutropha</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 2301-2311.	0.7	137

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37	Poly(3-Hydroxybutyrate) Production from Glycerol by <i>Zobellella denitrificans</i> MW1 via High-Cell-Density Fed-Batch Fermentation and Simplified Solvent Extraction. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6222-6231.	1.4	136
38	Analysis of Storage Lipid Accumulation in <i>Alcanivorax borkumensis</i> : Evidence for Alternative Triacylglycerol Biosynthesis Routes in Bacteria. <i>Journal of Bacteriology</i> , 2007, 189, 918-928.	1.0	133
39	Cloning and nucleotide sequences of genes relevant for biosynthesis of poly(3-hydroxybutyric acid) in <i>Chromatium vinosum</i> strain D. <i>FEBS Journal</i> , 1992, 209, 135-150.	0.2	130
40	<i>Rhodococcus opacus</i> strain PD630 as a new source of high-value single-cell oil? Isolation and characterization of triacylglycerols and other storage lipids. <i>Microbiology (United Kingdom)</i> , 2000, 146, 1143-1149.	0.7	127
41	Conversion of Glycerol to Poly(3-Hydroxypropionate) in Recombinant <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 622-626.	1.4	126
42	Constitutive Expression of the β -Ketothiolase Gene in Transgenic Plants. A Major Obstacle for Obtaining Polyhydroxybutyrate-Producing Plants. <i>Plant Physiology</i> , 2002, 128, 1282-1290.	2.3	122
43	Fatty acid alkyl esters: perspectives for production of alternative biofuels. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1713-1733.	1.7	122
44	Synthesis of Novel Lipids in <i>Saccharomyces cerevisiae</i> by Heterologous Expression of an Unspecific Bacterial Acyltransferase. <i>Applied and Environmental Microbiology</i> , 2004, 70, 7119-7125.	1.4	119
45	Biochemical and Molecular Basis of Microbial Synthesis of Polyhydroxyalkanoates in Microorganisms. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2001, 71, 81-123.	0.6	117
46	Evaluation of non-cyanobacterial genome sequences for occurrence of genes encoding proteins homologous to cyanophycin synthetase and cloning of an active cyanophycin synthetase from <i>Acinetobacter</i> sp. strain DSM 587. <i>Archives of Microbiology</i> , 2002, 177, 371-380.	1.0	117
47	Purification and Characterization of the Poly(Hydroxyalkanoic Acid) Synthase from <i>Chromatium vinosum</i> and Localization of the Enzyme at the Surface of Poly(Hydroxyalkanoic Acid) Granules. <i>FEBS Journal</i> , 1994, 226, 71-80.	0.2	115
48	Influence of homologous phasins (PhaP) on PHA accumulation and regulation of their expression by the transcriptional repressor PhaR in <i>Ralstonia eutropha</i> H16. <i>Microbiology (United Kingdom)</i> , 2005, 151, 825-833.	0.7	113
49	Molecular characterization of the cyanophycin synthetase from <i>Synechocystis</i> sp. strain PCC6308. <i>Archives of Microbiology</i> , 2000, 174, 297-306.	1.0	112
50	Synthesis of poly(3-hydroxyalkanoates) in <i>Escherichia coli</i> expressing the PHA synthase gene phaC2 from <i>Pseudomonas aeruginosa</i> : comparison of PhaC1 and PhaC2. <i>FEMS Microbiology Letters</i> , 2006, 157, 155-162.	0.7	112
51	Neutral Lipid Biosynthesis in Engineered <i>Escherichia coli</i> : Jojoba Oil-Like Wax Esters and Fatty Acid Butyl Esters. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1373-1379.	1.4	110
52	Non-biodegradable biopolymers from renewable resources: perspectives and impacts. <i>Current Opinion in Biotechnology</i> , 2005, 16, 607-613.	3.3	106
53	Highly Efficient Biotransformation of Eugenol to Ferulic Acid and Further Conversion to Vanillin in Recombinant Strains of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 6569-6576.	1.4	103
54	Key enzymes for biosynthesis of neutral lipid storage compounds in prokaryotes: Properties, function and occurrence of wax ester synthases/acyl-CoA:diacylglycerol acyltransferases. <i>Biochimie</i> , 2007, 89, 230-242.	1.3	103

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55	Technical-Scale Production of Cyanophycin with Recombinant Strains of <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2002, 68, 3377-3384.	1.4	98
56	Plasmid addiction systems: perspectives and applications in biotechnology. <i>Microbial Biotechnology</i> , 2010, 3, 634-657.	2.0	97
57	Potential of <i>Rhodococcus</i> strains for biotechnological vanillin production from ferulic acid and eugenol. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 745-755.	1.7	95
58	Recent developments in non-biodegradable biopolymers: Precursors, production processes, and future perspectives. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 143-157.	1.7	95
59	Identification and Characterization of Genes from <i>Streptomyces</i> sp. Strain K30 Responsible for Clear Zone Formation on Natural Rubber Latex and Poly(<i>cis</i> -1,4-isoprene) Rubber Degradation. <i>Biomacromolecules</i> , 2005, 6, 180-188.	2.6	94
60	Physiological and morphological responses of the soil bacterium <i>Rhodococcus opacus</i> strain PD630 to water stress. <i>FEMS Microbiology Ecology</i> , 2004, 50, 75-86.	1.3	92
61	Large scale extraction of poly(3-hydroxybutyrate) from <i>Ralstonia eutropha</i> H16 using sodium hypochlorite. <i>AMB Express</i> , 2012, 2, 59.	1.4	92
62	Excretion of pyruvate by mutants of <i>Alcaligenes eutrophus</i> , which are impaired in the accumulation of poly(3-hydroxybutyric acid) (PHB), under conditions permitting synthesis of PHB. <i>Applied Microbiology and Biotechnology</i> , 1989, 31, 168-175.	1.7	89
63	The role of the fatty acid β -oxidation multienzyme complex from <i>Pseudomonas oleovorans</i> in polyhydroxyalkanoate biosynthesis: molecular characterization of the <i>fadBA</i> operon from <i>P. oleovorans</i> and of the enoyl-CoA hydratase genes <i>phaj</i> from <i>P. oleovorans</i> and <i>Pseudomonas putida</i> . <i>Archives of Microbiology</i> , 2002, 178, 149-160.	1.0	88
64	Production of a copolyester of 3-hydroxybutyric acid and 3-hydroxyvaleric acid from single unrelated carbon sources by a mutant of <i>Alcaligenes eutrophus</i> . <i>Applied Microbiology and Biotechnology</i> , 1992, 37, 1.	1.7	87
65	Genome-wide transcriptome analyses of the <i>Knallgas</i> [™] bacterium <i>Ralstonia eutropha</i> H16 with regard to polyhydroxyalkanoate metabolism. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2136-2152.	0.7	87
66	Formation of Short Chain Length/Medium Chain Length Polyhydroxyalkanoate Copolymers by Fatty Acid β -Oxidation Inhibited <i>Ralstonia eutropha</i> . <i>Biomacromolecules</i> , 2002, 3, 208-213.	2.6	83
67	Cloning and characterization of a gene involved in triacylglycerol biosynthesis and identification of additional homologous genes in the oleaginous bacterium <i>Rhodococcus opacus</i> PD630. <i>Microbiology (United Kingdom)</i> , 2008, 154, 2327-2335.	0.7	83
68	Historical and Recent Achievements in the Field of Microbial Degradation of Natural and Synthetic Rubber. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4543-4551.	1.4	82
69	Metabolic routing towards polyhydroxyalkanoic acid synthesis in recombinant <i>Escherichia coli</i> (<i>fadR</i>): inhibition of fatty acid β -oxidation by acrylic acid. <i>FEMS Microbiology Letters</i> , 1998, 167, 89-94.	0.7	81
70	Studies on the biodegradability of polythioester copolymers and homopolymers by polyhydroxyalkanoate (PHA)-degrading bacteria and PHA depolymerases. <i>Archives of Microbiology</i> , 2004, 182, 212-25.	1.0	81
71	Molecular characterization of the poly(3-hydroxybutyrate) (PHB) synthase from <i>Ralstonia eutropha</i> : in vitro evolution, site-specific mutagenesis and development of a PHB synthase protein model. <i>BBA - Proteins and Proteomics</i> , 2002, 1594, 178-190.	2.1	80
72	Assessment of technological options and economical feasibility for cyanophycin biopolymer and high-value amino acid production. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 257-267.	1.7	80

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73	Mutation in a <i>tesB</i> -Like Hydroxyacyl-Coenzyme A-Specific Thioesterase Gene Causes Hyperproduction of Extracellular Polyhydroxyalkanoates by <i>Alcanivorax borkumensis</i> SK2. <i>Journal of Bacteriology</i> , 2006, 188, 8452-8459.	1.0	79
74	Integrated omics study delineates the dynamics of lipid droplets in <i>Rhodococcus opacus</i> PD630. <i>Nucleic Acids Research</i> , 2014, 42, 1052-1064.	6.5	79
75	Involvement of Two Latex-Clearing Proteins during Rubber Degradation and Insights into the Subsequent Degradation Pathway Revealed by the Genome Sequence of <i>Gordonia polyisopenivorans</i> Strain VH2. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2874-2887.	1.4	78
76	Identification of Poly(cis-1,4-Isoprene) Degradation Intermediates during Growth of Moderately Thermophilic Actinomycetes on Rubber and Cloning of a Functional lcp Homologue from <i>Nocardia farcinica</i> Strain E1. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3375-3382.	1.4	77
77	Biosynthesis of Poly(3-hydroxybutyrate-co-3-mercaptoputyrate) as a Sulfur Analogue to Poly(3-hydroxybutyrate) (PHB). <i>Biomacromolecules</i> , 2001, 2, 1061-1065.	2.6	74
78	Heterologous Expression of Cyanophycin Synthetase and Cyanophycin Synthesis in the Industrial Relevant Bacteria <i>Corynebacterium glutamicum</i> and <i>Ralstonia eutropha</i> and in <i>Pseudomonas putida</i> . <i>Biomacromolecules</i> , 2001, 2, 1338-1342.	2.6	73
79	Biosynthesis and Biodegradation of 3-Hydroxypropionate-Containing Polyesters. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4919-4925.	1.4	73
80	Investigation of the <i>Amycolatopsis</i> sp. Strain ATCC 39116 Vanillin Dehydrogenase and Its Impact on the Biotechnical Production of Vanillin. <i>Applied and Environmental Microbiology</i> , 2013, 79, 81-90.	1.4	73
81	Large-Scale Production of Poly(3-Hydroxyoctanoic Acid) by <i>Pseudomonas putida</i> GPO1 and a Simplified Downstream Process. <i>Applied and Environmental Microbiology</i> , 2009, 75, 643-651.	1.4	72
82	Application of a KDPG-aldolase gene-dependent addiction system for enhanced production of cyanophycin in <i>Ralstonia eutropha</i> strain H16. <i>Metabolic Engineering</i> , 2006, 8, 66-78.	3.6	71
83	Bacterial lipid droplets bind to DNA via an intermediary protein that enhances survival under stress. <i>Nature Communications</i> , 2017, 8, 15979.	5.8	71
84	Metabolic Pathway for Biosynthesis of Poly(3-Hydroxybutyrate-co-4-Hydroxybutyrate) from 4-Hydroxybutyrate by <i>Alcaligenes eutrophus</i> . <i>FEBS Journal</i> , 1995, 227, 43-60.	0.2	70
85	In vitro synthesis of poly(3-hydroxybutyric acid) by using an enzymatic coenzyme A recycling system. <i>FEMS Microbiology Letters</i> , 1998, 168, 319-324.	0.7	70
86	<i>Gordonia westfalica</i> sp. nov., a novel rubber-degrading actinomycete. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 1133-1139.	0.8	70
87	High-Cell-Density Cyclic Fed-Batch Fermentation of a Poly(3-Hydroxybutyrate)-Accumulating Thermophile, <i>Chelatococcus</i> sp. Strain MW10. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7890-7895.	1.4	69
88	Physiological Conditions Conducive to High Cyanophycin Content in Biomass of <i>Acinetobacter calcoaceticus</i> Strain ADP1. <i>Applied and Environmental Microbiology</i> , 2005, 71, 858-866.	1.4	68
89	Studies on the Influence of Phasins on Accumulation and Degradation of PHB and Nanostructure of PHB Granules in <i>Ralstonia eutropha</i> H16. <i>Biomacromolecules</i> , 2007, 8, 657-662.	2.6	68
90	Bacterial Acyltransferases as an Alternative for Lipase-Catalyzed Acylation for the Production of Oleochemicals and Fuels. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3688-3694.	7.2	68

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91	Cloning and molecular analysis of the poly(3-hydroxybutyric acid) biosynthetic genes of <i>Thiocystis violacea</i> . <i>Applied Microbiology and Biotechnology</i> , 1993, 38, 493-501.	1.7	66
92	The methylcitric acid pathway in <i>Ralstonia eutropha</i> : new genes identified involved in propionate metabolism The GenBank accession numbers for the nucleotide sequences of the <i>prp</i> gene cluster are AF325554 and AF331923.. <i>Microbiology (United Kingdom)</i> , 2001, 147, 2203-2214.	0.7	66
93	Identification, cloning and sequence analysis of the poly(3-hydroxyalkanoic acid) synthase gene of the Gram-positive bacterium <i>Rhodococcus ruber</i> . <i>FEMS Microbiology Letters</i> , 1992, 96, 73-79.	0.7	65
94	Biodegradable plastics. <i>Current Opinion in Biotechnology</i> , 1992, 3, 291-297.	3.3	64
95	Poly(3-Hydroxypropionate): a Promising Alternative to Fossil Fuel-Based Materials. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6574-6582.	1.4	64
96	Technology Trends in Biodegradable Polymers: Evidence from Patent Analysis. <i>Polymer Reviews</i> , 2016, 56, 584-606.	5.3	64
97	Analysis of Genome Sequences for Genes of Cyanophycin Metabolism: Identifying Putative Cyanophycin Metabolizing Prokaryotes. <i>Macromolecular Bioscience</i> , 2007, 7, 278-296.	2.1	62
98	Polyhydroxyalkanoate (PHA) Accumulation in Sulfate-Reducing Bacteria and Identification of a Class III PHA Synthase (PhaEC) in <i>Desulfococcus multivorans</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 4440-4448.	1.4	61
99	Dipeptides in nutrition and therapy: cyanophycin-derived dipeptides as natural alternatives and their biotechnological production. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 815-828.	1.7	61
100	Pilot-Scale Production of Fatty Acid Ethyl Esters by an Engineered <i>Escherichia coli</i> Strain Harboring the p(Microdiesel) Plasmid. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4560-4565.	1.4	61
101	Latex Clearing Protein "an Oxygenase Cleaving Poly(<i>cis</i> -1,4-Isoprene) Rubber at the <i>cis</i> Double Bonds. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5231-5240.	1.4	61
102	Production of rubber-like polymers by microorganisms. <i>Current Opinion in Microbiology</i> , 2003, 6, 261-270.	2.3	60
103	Characterization of Microbial Polythioesters: Physical Properties of Novel Copolymers Synthesized by <i>Ralstonia eutropha</i> . <i>Biomacromolecules</i> , 2002, 3, 159-166.	2.6	59
104	Bacterial degradation of poly(trans-1,4-isoprene) (gutta percha). <i>Microbiology (United Kingdom)</i> , 2007, 153, 347-356.	0.7	59
105	Novel precursor substrates for polythioesters (PTE) and limits of PTE biosynthesis in <i>Ralstonia eutropha</i> . <i>FEMS Microbiology Letters</i> , 2003, 221, 191-196.	0.7	58
106	<i>Ralstonia eutropha</i> H16 in progress: Applications beside PHAs and establishment as production platform by advanced genetic tools. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 494-510.	5.1	58
107	Molecular Characterization of a Thermostable Cyanophycin Synthetase from the Thermophilic Cyanobacterium <i>Synechococcus</i> sp. Strain MA19 and In Vitro Synthesis of Cyanophycin and Related Polyamides. <i>Applied and Environmental Microbiology</i> , 2002, 68, 93-101.	1.4	57
108	Functional expression of the PHA synthase gene <i>phaC1</i> from <i>Pseudomonas aeruginosa</i> in <i>Escherichia coli</i> results in poly(3-hydroxyalkanoate) synthesis. <i>FEMS Microbiology Letters</i> , 2006, 150, 303-309.	0.7	57

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109	Isolation of Cyanophycin-degrading Bacteria, Cloning and Characterization of an Extracellular Cyanophycinase Gene (cphE) from <i>Pseudomonas anguilliseptica</i> Strain BI. <i>Journal of Biological Chemistry</i> , 2002, 277, 25096-25105.	1.6	56
110	Physical Properties of Microbial Polythioesters: Characterization of Poly(3-mercaptoalkanoates) Synthesized by Engineered <i>Escherichia coli</i> . <i>Biomacromolecules</i> , 2003, 4, 1698-1702.	2.6	55
111	Engineering the heterotrophic carbon sources utilization range of <i>Ralstonia eutropha</i> H16 for applications in biotechnology. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 978-991.	5.1	54
112	Identification of phenyldecanoic acid as a constituent of triacylglycerols and wax ester produced by <i>Rhodococcus opacus</i> PD630. <i>Microbiology (United Kingdom)</i> , 2002, 148, 1407-1412.	0.7	54
113	<i>Schlegelella thermodepolymerans</i> gen. nov., sp. nov., a novel thermophilic bacterium that degrades poly(3-hydroxybutyrate-co-3-mercaptopropionate). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 1165-1168.	0.8	53
114	Insights into the Microbial Degradation of Rubber and Gutta-Percha by Analysis of the Complete Genome of <i>Nocardia nova</i> SH22a. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3895-3907.	1.4	53
115	Metabolic Engineering of the Actinomycete <i>Amycolatopsis</i> sp. Strain ATCC 39116 towards Enhanced Production of Natural Vanillin. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3410-3419.	1.4	53
116	A multifunctional fermentative alcohol dehydrogenase from the strict aerobe <i>Alcaligenes eutrophus</i> : purification and properties. <i>FEBS Journal</i> , 1984, 141, 555-564.	0.2	52
117	Poly(3-Hydroxybutyrate) Degradation in <i>Ralstonia eutropha</i> H16 Is Mediated Stereoselectively to (S)-3-Hydroxybutyryl Coenzyme A (CoA) via Crotonyl-CoA. <i>Journal of Bacteriology</i> , 2013, 195, 3213-3223.	1.0	52
118	Harnessing eugenol as a substrate for production of aromatic compounds with recombinant strains of <i>Amycolatopsis</i> sp. HR167. <i>Journal of Biotechnology</i> , 2006, 125, 369-376.	1.9	51
119	Application of recombinant gene technology for production of polyhydroxyalkanoic acids: Biosynthesis of poly(4-hydroxybutyric acid) homopolyester. <i>Journal of Polymers and the Environment</i> , 1994, 2, 67-74.	0.8	50
120	Protamylase, a Residual Compound of Industrial Starch Production, Provides a Suitable Medium for Large-Scale Cyanophycin Production. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7759-7767.	1.4	50
121	Synthesis and Accumulation of Cyanophycin in Transgenic Strains of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 3410-3418.	1.4	50
122	Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria. <i>Applied Microbiology and Biotechnology</i> , 1994, 40, 710-716.	1.7	49
123	Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for Production of Novel Cyanophycins with an Extended Range of Constituent Amino Acids. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3437-3446.	1.4	49
124	Editorial. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1-1.	1.7	49
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