

# Alexander Steinbchel

## List of Publications by Citations

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358  
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373  
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18,671  
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L-index

#	Paper	IF	Citations
358	Diversity of bacterial polyhydroxyalkanoic acids. <i>FEMS Microbiology Letters</i> , <b>1995</b> , 128, 219-228	2.9	626
357	Genome sequence of the bioplastic-producing "Knallgas" bacterium <i>Ralstonia eutropha</i> H16. <i>Nature Biotechnology</i> , <b>2006</b> , 24, 1257-62	44.5	439
356	Bacterial and other biological systems for polyester production. <i>Trends in Biotechnology</i> , <b>1998</b> , 16, 419-27	5.1	411
355	Microdiesel: <i>Escherichia coli</i> engineered for fuel production. <i>Microbiology (United Kingdom)</i> , <b>2006</b> , 152, 2529-2536	2.9	390
354	Metabolic engineering and pathway construction for biotechnological production of relevant polyhydroxyalkanoates in microorganisms. <i>Biochemical Engineering Journal</i> , <b>2003</b> , 16, 81-96	4.2	337
353	Increased diversification of polyhydroxyalkanoates by modification reactions for industrial and medical applications. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 74, 1-12	5.7	314
352	Biochemical and genetic analysis of PHA synthases and other proteins required for PHA synthesis. <i>International Journal of Biological Macromolecules</i> , <b>1999</b> , 25, 3-19	7.9	303
351	A novel bifunctional wax ester synthase/acyl-CoA:diacylglycerol acyltransferase mediates wax ester and triacylglycerol biosynthesis in <i>Acinetobacter calcoaceticus</i> ADP1. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 8075-82	5.4	288
350	Perspectives for Biotechnological Production and Utilization of Biopolymers: Metabolic Engineering of Polyhydroxyalkanoate Biosynthesis Pathways as a Successful Example. <i>Macromolecular Bioscience</i> , <b>2001</b> , 1, 1-24	5.5	281
349	Considerations on the structure and biochemistry of bacterial polyhydroxyalkanoic acid inclusions. <i>Canadian Journal of Microbiology</i> , <b>1995</b> , 41 Suppl 1, 94-105	3.2	231
348	Neutral lipid bodies in prokaryotes: recent insights into structure, formation, and relationship to eukaryotic lipid depots. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 3607-19	3.5	222
347	A new metabolic link between fatty acid de novo synthesis and polyhydroxyalkanoic acid synthesis. The PHAG gene from <i>Pseudomonas putida</i> KT2440 encodes a 3-hydroxyacyl-acyl carrier protein-coenzyme A transferase. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 24044-51	5.4	221
346	Biology of the metabolically diverse genus <i>Gordonia</i> . <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 3195-204	4.8	214
345	Polyhydroxyalkanoic acids <b>1991</b> , 123-213		192
344	Biodegradation of natural rubber and related compounds: recent insights into a hardly understood catabolic capability of microorganisms. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 2803-12	4.8	186
343	Poly(3-hydroxybutyrate) granule-associated proteins: impacts on poly(3-hydroxybutyrate) synthesis and degradation. <i>Biomacromolecules</i> , <b>2005</b> , 6, 552-60	6.9	184
342	Fatty acid synthesis in <i>Escherichia coli</i> and its applications towards the production of fatty acid based biofuels. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 7	7.8	182

341	Mechanism of lipid-body formation in prokaryotes: how bacteria fatten up. <i>Molecular Microbiology</i> , <b>2005</b> , 55, 750-63	4.1	173
340	Occurrence, functions and biosynthesis of polyamides in microorganisms and biotechnological production. <i>Die Naturwissenschaften</i> , <b>2002</b> , 89, 11-22	2	168
339	Regulation of phasin expression and polyhydroxyalkanoate (PHA) granule formation in <i>Ralstonia eutropha</i> H16. <i>Microbiology (United Kingdom)</i> , <b>2002</b> , 148, 2413-2426	2.9	165
338	<i>Ralstonia eutropha</i> strain H16 as model organism for PHA metabolism and for biotechnological production of technically interesting biopolymers. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2009</b> , 16, 91-108	0.9	163
337	Microbial degradation of poly(amino acid)s. <i>Biomacromolecules</i> , <b>2004</b> , 5, 1166-76	6.9	158
336	Formation of poly(3-hydroxyalkanoates) by phototrophic and chemolithotrophic bacteria. <i>Archives of Microbiology</i> , <b>1991</b> , 155, 415-421	3	149
335	Identification of a new class of biopolymer: bacterial synthesis of a sulfur-containing polymer with thioester linkages. <i>Microbiology (United Kingdom)</i> , <b>2001</b> , 147, 11-9	2.9	143
334	Microalgae as bioreactors for bioplastic production. <i>Microbial Cell Factories</i> , <b>2011</b> , 10, 81	6.4	139
333	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> , <b>2005</b> , 187, 1369-76	3.5	138
332	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> , <b>1994</b> , 40, 699-709	5.7	137
331	Cloning and molecular analysis of the poly(3-hydroxyalkanoic acid) gene locus of <i>Pseudomonas aeruginosa</i> PAO1. <i>FEBS Journal</i> , <b>1992</b> , 209, 15-30		136
330	Isolation of prokaryotic RNA and detection of specific mRNA with biotinylated probes. <i>Journal of Microbiological Methods</i> , <b>1990</b> , 11, 73-81	2.8	130
329	The complex structure of polyhydroxybutyrate (PHB) granules: four orthologous and paralogous phasins occur in <i>Ralstonia eutropha</i> . <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 2301-2311	2.9	128
328	Role of fatty acid de novo biosynthesis in polyhydroxyalkanoic acid (PHA) and rhamnolipid synthesis by pseudomonads: establishment of the transacylase (PhaG)-mediated pathway for PHA biosynthesis in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 3102-9	4.8	124
327	<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> , <b>2000</b> , 146 ( Pt 5), 1143-1149	2.9	121
326	Biosynthesis of novel thermoplastic polythioesters by engineered <i>Escherichia coli</i> . <i>Nature Materials</i> , <b>2002</b> , 1, 236-40	27	119
325	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> , <b>2009</b> , 75, 6222-31	4.8	117
324	Analysis of storage lipid accumulation in <i>Alcanivorax borkumensis</i> : Evidence for alternative triacylglycerol biosynthesis routes in bacteria. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 918-28	3.5	117

323	Gordonia polyisoprenivorans sp. nov., a rubber-degrading actinomycete isolated from an automobile tyre. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>1999</b> , 49 Pt 4, 1785-91 <sup>2</sup>	117
322	Conversion of glycerol to poly(3-hydroxypropionate) in recombinant Escherichia coli. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 622-6	4.8 111
321	Synthesis of novel lipids in Saccharomyces cerevisiae by heterologous expression of an unspecific bacterial acyltransferase. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 7119-25	4.8 110
320	Cloning and nucleotide sequences of genes relevant for biosynthesis of poly(3-hydroxybutyric acid) in Chromatium vinosum strain D. <i>FEBS Journal</i> , <b>1992</b> , 209, 135-50	110
319	Accumulation of storage lipids in species of Rhodococcus and Nocardia and effect of inhibitors and polyethylene glycol. <i>Lipid - Fett</i> , <b>1997</b> , 99, 239-246	109
318	Acyltransferases in bacteria. <i>Microbiology and Molecular Biology Reviews</i> , <b>2013</b> , 77, 277-321	13.2 106
317	Constitutive expression of the beta-ketothiolase gene in transgenic plants. A major obstacle for obtaining polyhydroxybutyrate-producing plants. <i>Plant Physiology</i> , <b>2002</b> , 128, 1282-90	6.6 106
316	PHA recovery from biomass. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2963-72	6.9 105
315	Metabolic characteristics of the species Variovorax paradoxus. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 541-60	5.7 105
314	Fatty acid alkyl esters: perspectives for production of alternative biofuels. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 85, 1713-33	5.7 104
313	Evaluation of non-cyanobacterial genome sequences for occurrence of genes encoding proteins homologous to cyanophycin synthetase and cloning of an active cyanophycin synthetase from Acinetobacter sp. strain DSM 587. <i>Archives of Microbiology</i> , <b>2002</b> , 177, 371-80	3 103
312	Neutral lipid biosynthesis in engineered Escherichia coli: jojoba oil-like wax esters and fatty acid butyl esters. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 1373-9	4.8 100
311	Purification and characterization of the poly(hydroxyalkanoic acid) synthase from Chromatium vinosum and localization of the enzyme at the surface of poly(hydroxyalkanoic acid) granules. <i>FEBS Journal</i> , <b>1994</b> , 226, 71-80	98
310	Influence of homologous phasins (PhaP) on PHA accumulation and regulation of their expression by the transcriptional repressor PhaR in Ralstonia eutropha H16. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 825-833	2.9 96
309	Molecular characterization of the cyanophycin synthetase from Synechocystis sp. strain PCC6308. <i>Archives of Microbiology</i> , <b>2000</b> , 174, 297-306	3 96
308	Synthesis of poly(3-hydroxyalkanoates) in Escherichia coli expressing the PHA synthase gene phaC2 from Pseudomonas aeruginosa: comparison of PhaC1 and PhaC2. <i>FEMS Microbiology Letters</i> , <b>1997</b> , 157, 155-62	2.9 95
307	Technical-scale production of cyanophycin with recombinant strains of Escherichia coli. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 3377-84	4.8 91
306	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> , <b>2007</b> , 89, 230-42	4.6 90

305	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> , <b>2003</b> , 69, 6569-76	4.8	90
304	Potential of <i>Rhodococcus</i> strains for biotechnological vanillin production from ferulic acid and eugenol. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 72, 745-55	5.7	86
303	Biochemical and molecular basis of microbial synthesis of polyhydroxyalkanoates in microorganisms. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2001</b> , 71, 81-123	1.7	84
302	Physiological and morphological responses of the soil bacterium <i>Rhodococcus opacus</i> strain PD630 to water stress. <i>FEMS Microbiology Ecology</i> , <b>2004</b> , 50, 75-86	4.3	83
301	Excretion of pyruvate by mutants of <i>Alcaligenes eutrophus</i> , which are impaired in the accumulation of poly( $\beta$ -hydroxybutyric acid) (PHB), under conditions permitting synthesis of PHB. <i>Applied Microbiology and Biotechnology</i> , <b>1989</b> , 31, 168-175	5.7	83
300	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> , <b>2005</b> , 6, 180-8	6.9	82
299	Non-biodegradable biopolymers from renewable resources: perspectives and impacts. <i>Current Opinion in Biotechnology</i> , <b>2005</b> , 16, 607-13	11.4	82
298	Genome-wide transcriptome analyses of the 'Knallgas' bacterium <i>Ralstonia eutropha</i> H16 with regard to polyhydroxyalkanoate metabolism. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 2136-2152	2.9	78
297	Metabolic routing towards polyhydroxyalkanoic acid synthesis in recombinant <i>Escherichia coli</i> ( <i>fadR</i> ): inhibition of fatty acid $\beta$ -oxidation by acrylic acid. <i>FEMS Microbiology Letters</i> , <b>1998</b> , 167, 89-94	2.9	77
296	Plasmid addiction systems: perspectives and applications in biotechnology. <i>Microbial Biotechnology</i> , <b>2010</b> , 3, 634-57	6.3	76
295	The role of the fatty acid beta-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> , <b>2002</b> , 178, 149-60	3	76
294	Assessment of technological options and economical feasibility for cyanophycin biopolymer and high-value amino acid production. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 77, 257-67	5.7	73
293	Formation of short chain length/medium chain length polyhydroxyalkanoate copolymers by fatty acid beta-oxidation inhibited <i>Ralstonia eutropha</i> . <i>Biomacromolecules</i> , <b>2002</b> , 3, 208-13	6.9	72
292	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> , <b>2008</b> , 154, 2327-2335	2.9	71
291	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> , <b>2006</b> , 8, 66-78	9.7	68
290	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> , <b>2002</b> , 1594, 178-90		68
289	Integrated omics study delineates the dynamics of lipid droplets in <i>Rhodococcus opacus</i> PD630. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 1052-64	20.1	67
288	Historical and recent achievements in the field of microbial degradation of natural and synthetic rubber. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 4543-51	4.8	67

287	Involvement of two latex-clearing proteins during rubber degradation and insights into the subsequent degradation pathway revealed by the genome sequence of <i>Gordonia polyisoprenivorans</i> strain VH2. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 2874-87	4.8	67
286	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> , <b>2006</b> , 72, 3375-82	4.8	67
285	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> , <b>2001</b> , 2, 1338-42	6.9	67
284	Mutation in a "tesB-like" hydroxyacyl-coenzyme A-specific thioesterase gene causes hyperproduction of extracellular polyhydroxyalkanoates by <i>Alcanivorax borkumensis</i> SK2. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 8452-9	3.5	66
283	Large scale extraction of poly(3-hydroxybutyrate) from <i>Ralstonia eutropha</i> H16 using sodium hypochlorite. <i>AMB Express</i> , <b>2012</b> , 2, 59	4.1	65
282	Biosynthesis of poly(3-hydroxybutyrate-co-3-mercaptoputyrate) as a sulfur analogue to poly(3-hydroxybutyrate) (PHB). <i>Biomacromolecules</i> , <b>2001</b> , 2, 1061-5	6.9	65
281	Biosynthesis and biodegradation of 3-hydroxypropionate-containing polyesters. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 4919-25	4.8	64
280	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> , <b>1992</b> , 37, 1	5.7	64
279	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> , <b>2007</b> , 8, 657-62	6.9	63
278	Studies on the biodegradability of polythioester copolymers and homopolymers by polyhydroxyalkanoate (PHA)-degrading bacteria and PHA depolymerases. <i>Archives of Microbiology</i> , <b>2004</b> , 182, 212-25	3	63
277	In vitro synthesis of poly(3-hydroxybutyric acid) by using an enzymatic coenzyme A recycling system. <i>FEMS Microbiology Letters</i> , <b>1998</b> , 168, 319-24	2.9	62
276	Biodegradable plastics. <i>Current Opinion in Biotechnology</i> , <b>1992</b> , 3, 291-297	11.4	62
275	The methylcitric acid pathway in <i>Ralstonia eutropha</i> : new genes identified involved in propionate metabolism. <i>Microbiology (United Kingdom)</i> , <b>2001</b> , 147, 2203-2214	2.9	61
274	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> , <b>2009</b> , 75, 643-51	4.8	60
273	Metabolic pathway for biosynthesis of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) from 4-hydroxybutyrate by <i>Alcaligenes eutrophus</i> . <i>FEBS Journal</i> , <b>1995</b> , 227, 43-60		60
272	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> , <b>1992</b> , 96, 73-79	2.9	60
271	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> , <b>2013</b> , 79, 81-90	4.8	59
270	<i>Gordonia westfalica</i> sp. nov., a novel rubber-degrading actinomycete. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2002</b> , 52, 1133-1139	2.2	58

269	Recent developments in non-biodegradable biopolymers: Precursors, production processes, and future perspectives. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 143-157	5.7	57
268	Bacterial acyltransferases as an alternative for lipase-catalyzed acylation for the production of oleochemicals and fuels. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3688-94	16.4	56
267	Physiological conditions conducive to high cyanophycin content in biomass of <i>Acinetobacter calcoaceticus</i> strain ADP1. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 858-66	4.8	56
266	Novel precursor substrates for polythioesters (PTE) and limits of PTE biosynthesis in <i>Ralstonia eutropha</i> . <i>FEMS Microbiology Letters</i> , <b>2003</b> , 221, 191-6	2.9	56
265	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> , <b>2010</b> , 76, 4560-5	4.8	55
264	Bacterial degradation of poly(trans-1,4-isoprene) (gutta percha). <i>Microbiology (United Kingdom)</i> , <b>2007</b> , 153, 347-56	2.9	55
263	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> , <b>2010</b> , 76, 7890-5	4.8	54
262	Identification of phenyldecanoic acid as a constituent of triacylglycerols and wax ester produced by <i>Rhodococcus opacus</i> PD630. <i>Microbiology (United Kingdom)</i> , <b>2002</b> , 148, 1407-12	2.9	52
261	Dipeptides in nutrition and therapy: cyanophycin-derived dipeptides as natural alternatives and their biotechnological production. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 815-28	5.7	51
260	Production of rubber-like polymers by microorganisms. <i>Current Opinion in Microbiology</i> , <b>2003</b> , 6, 261-70	7.9	51
259	Characterization of microbial polythioesters: physical properties of novel copolymers synthesized by <i>Ralstonia eutropha</i> . <i>Biomacromolecules</i> , <b>2002</b> , 3, 159-66	6.9	51
258	Cloning and molecular analysis of the poly(3-hydroxybutyric acid) biosynthetic genes of <i>Thiocystis violacea</i> . <i>Applied Microbiology and Biotechnology</i> , <b>1993</b> , 38, 493-501	5.7	51
257	Analysis of genome sequences for genes of cyanophycin metabolism: identifying putative cyanophycin metabolizing prokaryotes. <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 278-96	5.5	50
256	Bacterial lipid droplets bind to DNA via an intermediary protein that enhances survival under stress. <i>Nature Communications</i> , <b>2017</b> , 8, 15979	17.4	49
255	Latex clearing protein-an oxygenase cleaving poly(cis-1,4-isoprene) rubber at the cis double bonds. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 5231-40	4.8	48
254	Poly(3-hydroxypropionate): a promising alternative to fossil fuel-based materials. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 6574-82	4.8	48
253	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> , <b>2004</b> , 70, 4440-8	4.8	48
252	Physical properties of microbial polythioesters: characterization of poly(3-mercaptoalkanoates) synthesized by engineered <i>Escherichia coli</i> . <i>Biomacromolecules</i> , <b>2003</b> , 4, 1698-702	6.9	48

251	Isolation of cyanophycin-degrading bacteria, cloning and characterization of an extracellular cyanophycinase gene (cphE) from <i>Pseudomonas anguilliseptica</i> strain BI. The cphE gene from <i>P. anguilliseptica</i> BI encodes a cyanophycinhydrolyzing enzyme. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 25096-105	5.4	47
250	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> , <b>1994</b> , 2, 67-74		47
249	A multifunctional fermentative alcohol dehydrogenase from the strict aerobe <i>Alcaligenes eutrophus</i> : purification and properties. <i>FEBS Journal</i> , <b>1984</b> , 141, 555-64		47
248	Protamylase, a residual compound of industrial starch production, provides a suitable medium for large-scale cyanophycin production. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 7759-67	4.8	46
247	Harnessing eugenol as a substrate for production of aromatic compounds with recombinant strains of <i>Amycolatopsis</i> sp. HR167. <i>Journal of Biotechnology</i> , <b>2006</b> , 125, 369-76	3.7	46
246	Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>1994</b> , 40, 710-716	5.7	46
245	Biotechnological process for production of beta-dipeptides from cyanophycin on a technical scale and its optimization. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 29-38	4.8	45
244	Synthesis and accumulation of cyanophycin in transgenic strains of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 3410-8	4.8	45
243	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> , <b>2013</b> , 195, 3213-23	3.5	44
242	Identification of the <i>Anabaena</i> sp. strain PCC7120 cyanophycin synthetase as suitable enzyme for production of cyanophycin in gram-negative bacteria like <i>Pseudomonas putida</i> and <i>Ralstonia eutropha</i> . <i>Biomacromolecules</i> , <b>2004</b> , 5, 1588-95	6.9	43
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240	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> , <b>2014</b> , 80, 3895-907	4.8	42
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4	Versuche <b>2021</b> , 23-248		
3	Versuche. <i>Springer-Lehrbuch</i> , <b>2013</b> , 25-258	0.4	
2	Immer (nur) Bioplastik? <i>Cupriavidus necator</i> als Produktionsplattform. <i>BioSpektrum</i> , <b>2016</b> , 22, 535-537	0.1	
1	Natürliche und synthetische Kautschukabfälle: Problem oder Rohstoff?. <i>BioSpektrum</i> , <b>2022</b> , 28, 218-220	0.1	