

# Bernd H A Rehm

## List of Publications by Year in descending order

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181  
papers

12,819  
citations

31949

53  
h-index

27389

106  
g-index

195  
all docs

195  
docs citations

195  
times ranked

10456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient Temperature Stable, Scalable COVID-19 Polymer Particle Vaccines Induce Protective Immunity. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102089.	3.9	14
2	SynBio: A Progressive Open Access Journal Publishing New Horizons in the Synthetic Biology. <i>SynBio</i> , 2022, 1, 1-2.	1.6	1
3	Use Intein Cleavable Polyhydroxyalkanoate Synthase Fusions to Improve Protein Solubility. <i>Methods in Molecular Biology</i> , 2022, 2406, 145-153.	0.4	0
4	Ambient Temperature Stable, Scalable COVID-19 Polymer Particle Vaccines Induce Protective Immunity (Adv. Healthcare Mater. 3/2022). <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	1
5	Cold atmospheric plasma for preventing infection of viruses that use ACE2 for entry. <i>Theranostics</i> , 2022, 12, 2811-2832.	4.6	8
6	Intranasal Delivery of Antigen-Coated Polymer Particles Protects against <i>Pseudomonas aeruginosa</i> Infection. <i>ACS Infectious Diseases</i> , 2022, 8, 744-756.	1.8	6
7	Polymeric nanoparticle vaccines to combat emerging and pandemic threats. <i>Biomaterials</i> , 2021, 268, 120597.	5.7	93
8	In-air particle generation by on-chip electrohydrodynamics. <i>Lab on A Chip</i> , 2021, 21, 1779-1787.	3.1	11
9	Engineered Mycobacterium tuberculosis antigen assembly into core-shell nanobeads for diagnosis of tuberculosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102374.	1.7	6
10	Bioengineered Polymer Nanobeads for Isolation and Electrochemical Detection of Cancer Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31418-31430.	4.0	23
11	Electrochemical Detection of Global DNA Methylation Using Biologically Assembled Polymer Beads. <i>Cancers</i> , 2021, 13, 3787.	1.7	1
12	A <i>Pseudomonas aeruginosa</i> -Derived Particulate Vaccine Protects against <i>P. aeruginosa</i> Infection. <i>Vaccines</i> , 2021, 9, 803.	2.1	12
13	Particulate Mycobacterial Vaccines Induce Protective Immunity against Tuberculosis in Mice. <i>Nanomaterials</i> , 2021, 11, 2060.	1.9	7
14	Epitope-coated polymer particles elicit neutralising antibodies against <i>Plasmodium falciparum</i> sporozoites. <i>Npj Vaccines</i> , 2021, 6, 141.	2.9	6
15	Engineering Antigens to Assemble into Polymer Particle Vaccines for Prevention of <i>Streptococcus suis</i> Infection. <i>Vaccines</i> , 2021, 9, 1386.	2.1	3
16	Analysis of the alginate O-acetylation machinery in <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 2179-2191.	1.7	14
17	Bacterially assembled biopolyester nanobeads for removing cadmium from water. <i>Water Research</i> , 2020, 186, 116357.	5.3	14
18	<i>Pseudomonas aeruginosa</i> Biofilms. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8671.	1.8	322

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19	An amplification-free method for the detection of HOTAIR long non-coding RNA. <i>Analytica Chimica Acta</i> , 2020, 1132, 66-73.	2.6	10
20	Editorial: Pathway, Genetic and Process Engineering of Microbes for Biopolymer Synthesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 618383.	2.0	4
21	Bioengineered Polyhydroxyalkanoates as Immobilized Enzyme Scaffolds for Industrial Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 156.	2.0	30
22	Covalent Functionalization of Bioengineered Polyhydroxyalkanoate Spheres Directed by Specific Protein-Protein Interactions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 44.	2.0	18
23	Mannuronic Acid in Low-Risk and Intermediate-Risk Myelodysplastic Syndromes. <i>Journal of Clinical Pharmacology</i> , 2020, 60, 879-888.	1.0	0
24	Bacterial biopolymers: from pathogenesis to advanced materials. <i>Nature Reviews Microbiology</i> , 2020, 18, 195-210.	13.6	257
25	Bioinformatic prospecting and phylogenetic analysis reveals 94 undescribed circular bacteriocins and key motifs. <i>BMC Microbiology</i> , 2020, 20, 77.	1.3	20
26	Catalytically Active Bioseparation Resin Utilizing a Covalent Intermediate for Tagless Protein Purification. <i>ACS Applied Bio Materials</i> , 2020, 3, 8911-8922.	2.3	12
27	Self-assembled particulate vaccine elicits strong immune responses and reduces <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> infection in mice. <i>Scientific Reports</i> , 2020, 10, 22289.	1.6	6
28	The Regulation of Alginate Biosynthesis via Cyclic di-GMP Signaling. , 2020, , 223-238.		0
29	The Role of Alginate in Bacterial Biofilm Formation. <i>Biologically-inspired Systems</i> , 2019, , 517-537.	0.4	8
30	Alginate Encapsulation of Bioengineered Protein-Coated Polyhydroxybutyrate Particles: A New Platform for Multifunctional Composite Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1901893.	7.8	9
31	Polyester as Antigen Carrier toward Particulate Vaccines. <i>Biomacromolecules</i> , 2019, 20, 3213-3232.	2.6	33
32	A randomized, controlled, phase II clinical trial of $\beta$ -D-mannuronic acid (M2000) in pre-surgical breast cancer patients at early stage (T1-T2). <i>Clinical and Experimental Pharmacology and Physiology</i> , 2019, 46, 527-532.	0.9	5
33	Innovative antigen carrier system for the development of tuberculosis vaccines. <i>FASEB Journal</i> , 2019, 33, 7505-7518.	0.2	19
34	Advanced liquid biopsy technologies for circulating biomarker detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6670-6704.	2.9	118
35	International multicenter randomized, placebo-controlled phase III clinical trial of $\beta$ -D-mannuronic acid in rheumatoid arthritis patients. <i>Inflammopharmacology</i> , 2019, 27, 911-921.	1.9	13
36	Oral administration effects of $\beta$ -D-mannuronic acid (M2000) on Th17 and regulatory T cells in patients with ankylosing spondylitis. <i>Biomedicine and Pharmacotherapy</i> , 2018, 100, 495-500.	2.5	19

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37	A phase I/II randomized, controlled, clinical trial for assessment of the efficacy and safety of Î²-d-mannuronic acid in rheumatoid arthritis patients. <i>Inflammopharmacology</i> , 2018, 26, 737-745.	1.9	17
38	Bioengineered polyester beads co-displaying protein and carbohydrate-based antigens induce protective immunity against bacterial infection. <i>Scientific Reports</i> , 2018, 8, 1888.	1.6	35
39	Bioengineering toward direct production of immobilized enzymes: A paradigm shift in biocatalyst design. <i>Bioengineered</i> , 2018, 9, 6-11.	1.4	34
40	The effects of Î²-d-mannuronic acid (M2000), as a novel NSAID, on COX1 and COX2 activities and gene expression in ankylosing spondylitis patients and the murine monocyte/macrophage, J774 cell line. <i>Inflammopharmacology</i> , 2018, 26, 375-384.	1.9	10
41	Alginate Biosynthesis and Biotechnological Production. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018, , 1-25.	0.7	24
42	Evaluation of the efficacy and safety of Î²-d-mannuronic acid in patients with ankylosing spondylitis: A 12-week randomized, placebo-controlled, phase I/II clinical trial. <i>International Immunopharmacology</i> , 2018, 54, 112-117.	1.7	26
43	Purification of therapeutic proteins mediated by in vivo polyester immobilized sortase. <i>Biotechnology Letters</i> , 2018, 40, 369-373.	1.1	8
44	Design of Bacterial Inclusion Bodies as Antigen Carrier Systems. <i>Advanced Biology</i> , 2018, 2, 1800118.	3.0	8
45	Design of Modular Polyhydroxyalkanoate Scaffolds for Protein Immobilization by Directed Ligation. <i>Biomacromolecules</i> , 2018, 19, 4098-4112.	2.6	21
46	Design and Biological Assembly of Polyester Beads Displaying Pneumococcal Antigens as Particulate Vaccine. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3413-3424.	2.6	16
47	Engineering Mycobacteria for the Production of Self-Assembling Biopolyesters Displaying Mycobacterial Antigens for Use as a Tuberculosis Vaccine. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	12
48	Activation Mechanism and Cellular Localization of Membrane-Anchored Alginate Polymerase in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	24
49	Self-assembled particulate PsaA as vaccine against <i>Streptococcus pneumoniae</i> infection. <i>Heliyon</i> , 2017, 3, e00291.	1.4	29
50	Introduction of Î²-d-mannuronic acid (M2000) as a novel NSAID with immunosuppressive property based on COX-1/COX-2 activity and gene expression. <i>Pharmacological Reports</i> , 2017, 69, 1067-1072.	1.5	19
51	Bioengineering a bacterial pathogen to assemble its own particulate vaccine capable of inducing cellular immunity. <i>Scientific Reports</i> , 2017, 7, 41607.	1.6	23
52	Bioengineering towards self-assembly of particulate vaccines. <i>Current Opinion in Biotechnology</i> , 2017, 48, 42-53.	3.3	30
53	Immunological properties and protective efficacy of a single mycobacterial antigen displayed on polyhydroxybutyrate beads. <i>Microbial Biotechnology</i> , 2017, 10, 1434-1440.	2.0	10
54	Self-Assembled Protein-Coated Polyhydroxyalkanoate Beads: Properties and Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3043-3057.	2.6	55

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55	Applications of Microbial Biopolymers in Display Technology. , 2017, , 569-585.		0
56	<i>Pseudomonas aeruginosa</i> Lifestyle: A Paradigm for Adaptation, Survival, and Persistence. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 39.	1.8	950
57	Purification of target proteins from intracellular inclusions mediated by intein cleavable polyhydroxyalkanoate synthase fusions. <i>Microbial Cell Factories</i> , 2017, 16, 184.	1.9	15
58	Engineering <i>Bacillus megaterium</i> for production of functional intracellular materials. <i>Microbial Cell Factories</i> , 2017, 16, 211.	1.9	28
59	Assessing the Performance of Floating Biofilters for Oxidation of Methane from Dairy Effluent Ponds. <i>Journal of Environmental Quality</i> , 2017, 46, 272-280.	1.0	8
60	The Potent Inhibitory Effect of Î²-D-Mannuronic Acid (M2000) as a Novel NSAID with Immunosuppressive Property on Anti-Cyclic Citrullinated Peptide Antibodies, Rheumatoid Factor and Anti-dsDNA Antibodies in Patients with Rheumatoid Arthritis. <i>Current Drug Discovery Technologies</i> , 2017, 14, 206-214.	0.6	11
61	Editorial: Microbial Exopolysaccharides: From Genes to Applications. <i>Frontiers in Microbiology</i> , 2016, 7, 308.	1.5	15
62	Enzyme Engineering for In Situ Immobilization. <i>Molecules</i> , 2016, 21, 1370.	1.7	83
63	Protective T Cell and Antibody Immune Responses against Hepatitis C Virus Achieved Using a Biopolyester-Bead-Based Vaccine Delivery System. <i>Vaccine Journal</i> , 2016, 23, 370-378.	3.2	33
64	Assessment of farm soil, biochar, compost and weathered pine mulch to mitigate methane emissions. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9365-9379.	1.7	13
65	Biological function of a polysaccharide degrading enzyme in the periplasm. <i>Scientific Reports</i> , 2016, 6, 31249.	1.6	16
66	Immunogenicity of antigens from <i>Mycobacterium tuberculosis</i> self-assembled as particulate vaccines. <i>International Journal of Medical Microbiology</i> , 2016, 306, 624-632.	1.5	33
67	Does acidification of a soil biofilter compromise its methane-oxidising capacity?. <i>Biology and Fertility of Soils</i> , 2016, 52, 573-583.	2.3	14
68	Display of Antigens on Polyester Inclusions Lowers the Antigen Concentration Required for a Bovine Tuberculosis Skin Test. <i>Vaccine Journal</i> , 2016, 23, 19-26.	3.2	22
69	Applications of Microbial Biopolymers in Display Technology. , 2016, , 1-17.		0
70	In vivo polyester immobilized sortase for tagless protein purification. <i>Microbial Cell Factories</i> , 2015, 14, 190.	1.9	24
71	Alginate Polymerization and Modification Are Linked in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2015, 6, e00453-15.	1.8	53
72	Insights into the surface topology of polyhydroxyalkanoate synthase: self-assembly of functionalized inclusions. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8045-8053.	1.7	10

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73	Immobilization of active lipase B from <i>Candida antarctica</i> on the surface of polyhydroxyalkanoate inclusions. <i>Biotechnology Letters</i> , 2015, 37, 831-835.	1.1	14
74	Surface display of highly-stable <i>Desulfovibrio vulgaris</i> carbonic anhydrase on polyester beads for CO <sub>2</sub> capture. <i>Biotechnology Letters</i> , 2015, 37, 1415-1420.	1.1	13
75	Bacterial exopolysaccharides: biosynthesis pathways and engineering strategies. <i>Frontiers in Microbiology</i> , 2015, 6, 496.	1.5	409
76	Membrane-anchored MucR mediates nitrate-dependent regulation of alginate production in <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7253-7265.	1.7	26
77	Bactericidal Compounds Controlling Growth of the Plant Pathogen <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> , Which Forms Biofilms Composed of a Novel Exopolysaccharide. <i>Applied and Environmental Microbiology</i> , 2015, 81, 4026-4036.	1.4	40
78	Synthetic biology towards the synthesis of custom-made polysaccharides. <i>Microbial Biotechnology</i> , 2015, 8, 19-20.	2.0	22
79	Bioengineering of Bacteria To Assemble Custom-Made Polyester Affinity Resins. <i>Applied and Environmental Microbiology</i> , 2015, 81, 282-291.	1.4	18
80	Revaccination of Cattle with Bacille Calmette-Guérin Two Years after First Vaccination when Immunity Has Waned, Boosted Protection against Challenge with <i>Mycobacterium bovis</i> . <i>PLoS ONE</i> , 2014, 9, e106519.	1.1	41
81	Polyhydroxyalkanoate Synthase Fusions as a Strategy for Oriented Enzyme Immobilisation. <i>Molecules</i> , 2014, 19, 8629-8643.	1.7	28
82	Use of Bacterial Polyhydroxyalkanoates in Protein Display Technologies. <i>Springer Protocols</i> , 2014, , 71-86.	0.1	13
83	New Skin Test for Detection of Bovine Tuberculosis on the Basis of Antigen-Displaying Polyester Inclusions Produced by Recombinant <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 2526-2535.	1.4	36
84	An alginate-like exopolysaccharide biosynthesis gene cluster involved in biofilm aerial structure formation by <i>Pseudomonas alkylphenolia</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4137-4148.	1.7	16
85	<i>In Vivo</i> Self-Assembly of Stable Green Fluorescent Protein Fusion Particles and Their Uses in Enzyme Immobilization. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3062-3071.	1.4	16
86	Genetics and regulation of bacterial alginate production. <i>Environmental Microbiology</i> , 2014, 16, 2997-3011.	1.8	94
87	Novel particulate vaccines utilizing polyester nanoparticles (bio-beads) for protection against <i>Mycobacterium bovis</i> infection – A review. <i>Veterinary Immunology and Immunopathology</i> , 2014, 158, 8-13.	0.5	26
88	<i>In Vivo</i> Self-Assembly of Fluorescent Protein Microparticles Displaying Specific Binding Domains. <i>Bioconjugate Chemistry</i> , 2013, 24, 1314-1323.	1.8	14
89	Dual Roles of <i>Pseudomonas aeruginosa</i> AlgE in Secretion of the Virulence Factor Alginate and Formation of the Secretion Complex. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2002-2011.	1.4	23
90	Bioengineering of Bacterial Polymer Inclusions Catalyzing the Synthesis of N-Acetylneuraminic Acid. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3116-3121.	1.4	34

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91	Insights into the Assembly of the Alginate Biosynthesis Machinery in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 3264-3272.	1.4	45
92	Microbial alginate production, modification and its applications. <i>Microbial Biotechnology</i> , 2013, 6, 637-650.	2.0	243
93	Role of PelF in Pel Polysaccharide Biosynthesis in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 2968-2978.	1.4	26
94	<i>Escherichia coli</i> Nema Is an Efficient Chromate Reductase That Can Be Biologically Immobilized to Provide a Cell Free System for Remediation of Hexavalent Chromium. <i>PLoS ONE</i> , 2013, 8, e59200.	1.1	78
95	Vaccines Displaying Mycobacterial Proteins on Biopolyester Beads Stimulate Cellular Immunity and Induce Protection against Tuberculosis. <i>Vaccine Journal</i> , 2012, 19, 37-44.	3.2	61
96	Engineering bacteria to manufacture functionalized polyester beads. <i>Bioengineered</i> , 2012, 3, 203-208.	1.4	37
97	Immobilization of organophosphohydrolase OpdA from <i>Agrobacterium radiobacter</i> by overproduction at the surface of polyester inclusions inside engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 1101-1108.	1.7	37
98	Relevant uses of surface proteins "display on self-organized biological structures. <i>Microbial Biotechnology</i> , 2012, 5, 188-202.	2.0	26
99	Identification of a periplasmic AlgK-AlgX-MucD multiprotein complex in <i>Pseudomonas aeruginosa</i> involved in biosynthesis and regulation of alginate. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 215-227.	1.7	33
100	Role of Exopolysaccharides in <i>Pseudomonas aeruginosa</i> Biofilm Formation and Architecture. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5238-5246.	1.4	380
101	Production of a Particulate Hepatitis C Vaccine Candidate by an Engineered <i>Lactococcus lactis</i> Strain. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8516-8522.	1.4	53
102	Recombinant Protein Production by <i>In Vivo</i> Polymer Inclusion Display. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6706-6709.	1.4	21
103	Structural basis for alginate secretion across the bacterial outer membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13083-13088.	3.3	81
104	Bacterial biosynthesis of alginates. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 752-759.	1.6	135
105	Design of a single-chain multi-enzyme fusion protein establishing the polyhydroxybutyrate biosynthesis pathway. <i>Journal of Biotechnology</i> , 2010, 147, 31-36.	1.9	14
106	Bacterial polymers: biosynthesis, modifications and applications. <i>Nature Reviews Microbiology</i> , 2010, 8, 578-592.	13.6	695
107	Membrane Topology of Outer Membrane Protein AlgE, Which Is Required for Alginate Production in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 1806-1812.	1.4	31
108	MucR, a Novel Membrane-Associated Regulator of Alginate Biosynthesis in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 1110-1120.	1.4	129



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109	Bacterial Polyester Inclusions Engineered To Display Vaccine Candidate Antigens for Use as a Novel Class of Safe and Efficient Vaccine Delivery Agents. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7739-7744.	1.4	53
110	Tolerance of the <i>Ralstonia eutropha</i> Class I Polyhydroxyalkanoate Synthase for Translational Fusions to Its C Terminus Reveals a New Mode of Functional Display. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5461-5466.	1.4	40
111	Impact of Alginate Overproduction on Attachment and Biofilm Architecture of a Supermucoid <i>Pseudomonas aeruginosa</i> Strain. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6022-6025.	1.4	64
112	ZZ polyester beads: An efficient and simple method for purifying IgG from mouse hybridoma supernatants. <i>Journal of Immunological Methods</i> , 2009, 346, 71-74.	0.6	24
113	Protein engineering towards biotechnological production of bifunctional polyester beads. <i>Biotechnology Letters</i> , 2009, 31, 131-137.	1.1	26
114	Molecular characterization of Alg8, a putative glycosyltransferase, involved in alginate polymerisation. <i>Journal of Biotechnology</i> , 2009, 140, 176-183.	1.9	29
115	Production of Functionalized Biopolyester Granules by Recombinant <i>Lactococcus lactis</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 4668-4675.	1.4	46
116	One-Step Production of Immobilized $\alpha$ -Amylase in Recombinant <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 2012-2016.	1.4	45
117	Gut-Associated Denitrification and In Vivo Emission of Nitrous Oxide by the Earthworm Families Megascolecidae and Lumbricidae in New Zealand. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3430-3436.	1.4	38
118	Bacterial Polyhydroxyalkanoate Granules: Biogenesis, Structure, and Potential Use as Nano-/Micro-Beads in Biotechnological and Biomedical Applications. <i>Biomacromolecules</i> , 2009, 10, 660-669.	2.6	223
119	The polyhydroxyalkanoate biosynthesis genes are differentially regulated in planktonic- and biofilm-grown <i>Pseudomonas aeruginosa</i> . <i>Journal of Biotechnology</i> , 2008, 133, 442-452.	1.9	18
120	Protein engineering of streptavidin for in vivo assembly of streptavidin beads. <i>Journal of Biotechnology</i> , 2008, 134, 266-274.	1.9	41
121	Multifunctional Inorganic-Binding Beads Self-Assembled Inside Engineered Bacteria. <i>Bioconjugate Chemistry</i> , 2008, 19, 2072-2080.	1.8	52
122	In Vivo Production of scFv-Displaying Biopolymer Beads Using a Self-Assembly-Promoting Fusion Partner. <i>Bioconjugate Chemistry</i> , 2008, 19, 254-262.	1.8	46
123	Human Host Defense Peptide LL-37 Prevents Bacterial Biofilm Formation. <i>Infection and Immunity</i> , 2008, 76, 4176-4182.	1.0	551
124	Gene/Protein Sequence Analysis. <i>Springer Protocols</i> , 2008, , 323-347.	0.1	0
125	Production of M2000 ( $\beta$ -D-mannuronic acid) and its therapeutic effect on experimental nephritis. <i>Environmental Toxicology and Pharmacology</i> , 2007, 24, 60-66.	2.0	36
126	The inherent property of polyhydroxyalkanoate synthase to form spherical PHA granules at the cell poles: The core region is required for polar localization. <i>Journal of Biotechnology</i> , 2007, 132, 238-245.	1.9	33



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127	Recombinant <i>Escherichia coli</i> produces tailor-made biopolyester granules for applications in fluorescence activated cell sorting: functional display of the mouse interleukin-2 and myelin oligodendrocyte glycoprotein. <i>BMC Biotechnology</i> , 2007, 7, 3.	1.7	60
128	Biogenesis of microbial polyhydroxyalkanoate granules: a platform technology for the production of tailor-made bioparticles. <i>Current Issues in Molecular Biology</i> , 2007, 9, 41-62.	1.0	104
129	Alg44, a unique protein required for alginate biosynthesis in <i>Pseudomonas aeruginosa</i> . <i>FEBS Letters</i> , 2006, 580, 3883-3888.	1.3	84
130	Biochemical analysis of alginate biosynthesis protein AlgX from <i>Pseudomonas aeruginosa</i> : purification of AlgX-MucD (AlgY) protein complex. <i>Biochimie</i> , 2006, 88, 245-251.	1.3	28
131	Genetics and Biochemistry of Polyhydroxyalkanoate Granule Self-assembly: The Key Role of Polyester Synthases. <i>Biotechnology Letters</i> , 2006, 28, 207-213.	1.1	108
132	Bacterial alginates: from biosynthesis to applications. <i>Biotechnology Letters</i> , 2006, 28, 1701-1712.	1.1	289
133	Recombinant <i>Escherichia coli</i> Strain Produces a ZZ Domain Displaying Biopolyester Granules Suitable for Immunoglobulin G Purification. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7394-7397.	1.4	60
134	PslD Is a Secreted Protein Required for Biofilm Formation by <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 3066-3068.	1.4	44
135	In Vitro Alginate Polymerization and the Functional Role of Alg8 in Alginate Production by <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 298-305.	1.4	92
136	In Vivo Enzyme Immobilization by Use of Engineered Polyhydroxyalkanoate Synthase. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1777-1783.	1.4	84
137	Sodium Alginate as a Novel Therapeutic Option in Experimental Colitis. <i>Scandinavian Journal of Immunology</i> , 2005, 61, 316-321.	1.3	31
138	Treatment of Experimental Arthritis with M2000, a Novel Designed Non-Steroidal Anti-Inflammatory Drug. <i>Scandinavian Journal of Immunology</i> , 2005, 61, 435-441.	1.3	49
139	Treatment of experimental immune complex glomerulonephritis by sodium alginate. <i>Vascular Pharmacology</i> , 2005, 43, 30-35.	1.0	10
140	In vivo monitoring of PHA granule formation using GFP-labeled PHA synthases. <i>FEMS Microbiology Letters</i> , 2005, 248, 93-100.	0.7	102
141	Nitrogen-dependent regulation of medium-chain length polyhydroxyalkanoate biosynthesis genes in pseudomonads. <i>Biotechnology Letters</i> , 2005, 27, 279-282.	1.1	37
142	M2000, Foundation of a New Generation Among NSAIDs. <i>Letters in Drug Design and Discovery</i> , 2005, 2, 412-423.	0.4	2
143	Novel Immunosuppressive Therapy by M2000 in Experimental Multiple Sclerosis. <i>Immunopharmacology and Immunotoxicology</i> , 2005, 27, 255-265.	1.1	51
144	Expression of the psl Operon in <i>Pseudomonas aeruginosa</i> PAO1 Biofilms: PslA Performs an Essential Function in Biofilm Formation. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4407-4413.	1.4	78

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145	M2000: a revolution in pharmacology. <i>Medical Science Monitor</i> , 2005, 11, PI53-63.	0.5	20
146	The role of polyhydroxyalkanoate biosynthesis by <i>Pseudomonas aeruginosa</i> in rhamnolipid and alginate production as well as stress tolerance and biofilm formation. <i>Microbiology (United Kingdom)</i> , 2005, 150, 697-707.	1.5	1150
147	M2000, as a New Anti-inflammatory Molecule in Treatment of Experimental Nephrosis. <i>Immunopharmacology and Immunotoxicology</i> , 2004, 26, 611-619.	1.1	19
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