

Guo-Qiang Chen

List of Publications by Year in descending order

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353
papers

24,100
citations

5268

83
h-index

12597

132
g-index

372
all docs

372
docs citations

372
times ranked

14278
citing authors

#	ARTICLE	IF	CITATIONS
1	The application of polyhydroxyalkanoates as tissue engineering materials. <i>Biomaterials</i> , 2005, 26, 6565-6578.	11.4	1,276
2	A microbial polyhydroxyalkanoates (PHA) based bio- and materials industry. <i>Chemical Society Reviews</i> , 2009, 38, 2434.	38.1	1,067
3	Plastics Derived from Biological Sources: Present and Future: A Technical and Environmental Review. <i>Chemical Reviews</i> , 2012, 112, 2082-2099.	47.7	792
4	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 31-55.	10.3	515
5	Polyhydroxyalkanoate (PHA) scaffolds with good mechanical properties and biocompatibility. <i>Biomaterials</i> , 2003, 24, 1041-1045.	11.4	287
6	Next generation industrial biotechnology based on extremophilic bacteria. <i>Current Opinion in Biotechnology</i> , 2018, 50, 94-100.	6.6	265
7	Unsterile and continuous production of polyhydroxybutyrate by <i>Halomonas</i> TD01. <i>Bioresource Technology</i> , 2011, 102, 8130-8136.	9.6	257
8	Polyhydroxyalkanoates, challenges and opportunities. <i>Current Opinion in Biotechnology</i> , 2014, 30, 59-65.	6.6	257
9	Halophiles, coming stars for industrial biotechnology. <i>Biotechnology Advances</i> , 2015, 33, 1433-1442.	11.7	234
10	Polyhydroxyalkanoates as a source of chemicals, polymers, and biofuels. <i>Current Opinion in Biotechnology</i> , 2011, 22, 768-774.	6.6	228
11	Effect of surface treatment on the biocompatibility of microbial polyhydroxyalkanoates. <i>Biomaterials</i> , 2002, 23, 1391-1397.	11.4	225
12	Attachment, proliferation and differentiation of osteoblasts on random biopolyester poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) scaffolds. <i>Biomaterials</i> , 2004, 25, 669-675.	11.4	224
13	Application of CRISPRi for prokaryotic metabolic engineering involving multiple genes, a case study: Controllable P(3HB-co-4HB) biosynthesis. <i>Metabolic Engineering</i> , 2015, 29, 160-168.	7.0	222
14	Study on the three-dimensional proliferation of rabbit articular cartilage-derived chondrocytes on polyhydroxyalkanoate scaffolds. <i>Biomaterials</i> , 2002, 23, 4049-4056.	11.4	214
15	Medical Application of Microbial Biopolyesters Polyhydroxyalkanoates. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2009, 37, 1-12.	0.9	198
16	Identification of a cellularly active SIRT6 allosteric activator. <i>Nature Chemical Biology</i> , 2018, 14, 1118-1126.	8.0	193
17	Biosynthesis of poly(3-hydroxydecanoate) and 3-hydroxydodecanoate dominating polyhydroxyalkanoates by β^2 -oxidation pathway inhibited <i>Pseudomonas putida</i> . <i>Metabolic Engineering</i> , 2011, 13, 11-17.	7.0	188
18	In situ FTIR study on melting and crystallization of polyhydroxyalkanoates. <i>Polymer</i> , 2002, 43, 6893-6899.	3.8	185

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19	Polyhydroxyalkanoates (PHA) for therapeutic applications. <i>Materials Science and Engineering C</i> , 2018, 86, 144-150.	7.3	182
20	Engineering the ribosomal DNA in a megabase synthetic chromosome. <i>Science</i> , 2017, 355, .	12.6	169
21	Engineering Halomonas TD01 for the low-cost production of polyhydroxyalkanoates. <i>Metabolic Engineering</i> , 2014, 26, 34-47.	7.0	166
22	Evaluation of three-dimensional scaffolds made of blends of hydroxyapatite and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) for bone reconstruction. <i>Biomaterials</i> , 2005, 26, 899-904.	11.4	165
23	A MicroArk for Cells: Highly Open Porous Polyhydroxyalkanoate Microspheres as Injectable Scaffolds for Tissue Regeneration. <i>Advanced Materials</i> , 2018, 30, e1802273.	21.0	165
24	Evaluation of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) conduits for peripheral nerve regeneration. <i>Biomaterials</i> , 2009, 30, 217-225.	11.4	155
25	Production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) from unrelated carbon sources by metabolically engineered <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2010, 12, 352-359.	7.0	155
26	Reduced mouse fibroblast cell growth by increased hydrophilicity of microbial polyhydroxyalkanoates via hyaluronan coating. <i>Biomaterials</i> , 2003, 24, 4621-4629.	11.4	153
27	The behaviour of neural stem cells on polyhydroxyalkanoate nanofiber scaffolds. <i>Biomaterials</i> , 2010, 31, 3967-3975.	11.4	148
28	Production of Polyhydroxyalkanoates with High 3-Hydroxydodecanoate Monomer Content by <i>fadB</i> and <i>fadA</i> Knockout Mutant of <i>Pseudomonas putida</i> KT2442. <i>Biomacromolecules</i> , 2007, 8, 2504-2511.	5.4	146
29	Grand Challenges for Industrializing Polyhydroxyalkanoates (PHAs). <i>Trends in Biotechnology</i> , 2021, 39, 953-963.	9.3	145
30	A specific drug targeting system based on polyhydroxyalkanoate granule binding protein PhaP fused with targeted cell ligands. <i>Biomaterials</i> , 2008, 29, 4823-4830.	11.4	142
31	A seawater-based open and continuous process for polyhydroxyalkanoates production by recombinant <i>Halomonas campaniensis</i> LS21 grown in mixed substrates. <i>Biotechnology for Biofuels</i> , 2014, 7, .	6.2	142
32	Development of Halomonas TD01 as a host for open production of chemicals. <i>Metabolic Engineering</i> , 2014, 23, 78-91.	7.0	141
33	Engineering biosynthesis of polyhydroxyalkanoates (PHA) for diversity and cost reduction. <i>Metabolic Engineering</i> , 2020, 58, 82-93.	7.0	136
34	Evaluation of three-dimensional scaffolds prepared from poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) for growth of allogeneic chondrocytes for cartilage repair in rabbits. <i>Biomaterials</i> , 2008, 29, 2858-2868.	11.4	135
35	Polymer Nanoparticles. <i>Progress in Molecular Biology and Translational Science</i> , 2011, 104, 299-323.	1.7	135
36	Nanofibrous polyhydroxyalkanoate matrices as cell growth supporting materials. <i>Biomaterials</i> , 2008, 29, 3720-3728.	11.4	133

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37	Biosynthesis of polyhydroxyalkanoate homopolymers by <i>Pseudomonas putida</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1497-1507.	3.6	131
38	Effects of crystallization of polyhydroxyalkanoate blend on surface physicochemical properties and interactions with rabbit articular cartilage chondrocytes. <i>Biomaterials</i> , 2005, 26, 3537-3548.	11.4	130
39	A rapid-acting, long-acting insulin formulation based on a phospholipid complex loaded PHBHHx nanoparticles. <i>Biomaterials</i> , 2012, 33, 1583-1588.	11.4	129
40	Enhanced vascular-related cellular affinity on surface modified copolyesters of 3-hydroxybutyrate and 3-hydroxyhexanoate (PHBHHx). <i>Biomaterials</i> , 2005, 26, 6991-7001.	11.4	127
41	Plastics Completely Synthesized by Bacteria: Polyhydroxyalkanoates. <i>Microbiology Monographs</i> , 2010, , 17-37.	0.6	126
42	Microbial production and applications of chiral hydroxyalkanoates. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 592-599.	3.6	123
43	Engineering <i>Escherichia coli</i> for enhanced production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) in larger cellular space. <i>Metabolic Engineering</i> , 2014, 25, 183-193.	7.0	123
44	Engineering the diversity of polyesters. <i>Current Opinion in Biotechnology</i> , 2014, 29, 24-33.	6.6	122
45	Poly(hydroxybutyrate-co-hydroxyhexanoate) promoted production of extracellular matrix of articular cartilage chondrocytes in vitro. <i>Biomaterials</i> , 2003, 24, 4273-4281.	11.4	120
46	Effect of composition of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) on growth of fibroblast and osteoblast. <i>Biomaterials</i> , 2005, 26, 755-761.	11.4	119
47	Biodegradation studies of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Polymer Degradation and Stability</i> , 2004, 85, 815-821.	5.8	118
48	Production and characterization of poly(3-hydroxypropionate-co-4-hydroxybutyrate) with fully controllable structures by recombinant <i>Escherichia coli</i> containing an engineered pathway. <i>Metabolic Engineering</i> , 2012, 14, 317-324.	7.0	116
49	Engineering Biosynthesis Mechanisms for Diversifying Polyhydroxyalkanoates. <i>Trends in Biotechnology</i> , 2015, 33, 565-574.	9.3	115
50	Engineering <i>Halomonas bluephagenesis</i> TD01 for non-sterile production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>Bioresource Technology</i> , 2017, 244, 534-541.	9.6	114
51	3-Hydroxybutyrate methyl ester as a potential drug against Alzheimer's disease via mitochondria protection mechanism. <i>Biomaterials</i> , 2013, 34, 7552-7562.	11.4	113
52	Engineering the bacterial shapes for enhanced inclusion bodies accumulation. <i>Metabolic Engineering</i> , 2015, 29, 227-237.	7.0	113
53	Chondrogenic differentiation of human bone marrow mesenchymal stem cells on polyhydroxyalkanoate (PHA) scaffolds coated with PHA granule binding protein PhaP fused with RGD peptide. <i>Biomaterials</i> , 2011, 32, 2305-2313.	11.4	112
54	Application of (<i>R</i>)-3-Hydroxyalkanoate Methyl Esters Derived from Microbial Polyhydroxyalkanoates as Novel Biofuels. <i>Biomacromolecules</i> , 2009, 10, 707-711.	5.4	111

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55	Engineering bacteria for enhanced polyhydroxyalkanoates (PHA) biosynthesis. <i>Synthetic and Systems Biotechnology</i> , 2017, 2, 192-197.	3.7	111
56	Studies on bone marrow stromal cells affinity of poly (3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Biomaterials</i> , 2004, 25, 1365-1373.	11.4	110
57	Application of Polyhydroxyalkanoates Nanoparticles as Intracellular Sustained Drug-Release Vectors. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 127-140.	3.5	107
58	Differentiation of human bone marrow mesenchymal stem cells grown in terpolyesters of 3-hydroxyalkanoates scaffolds into nerve cells. <i>Biomaterials</i> , 2010, 31, 1691-1698.	11.4	106
59	The effect of d,l- β -hydroxybutyric acid on cell death and proliferation in L929 cells. <i>Biomaterials</i> , 2006, 27, 3758-3765.	11.4	105
60	Enhanced production of medium-chain-length polyhydroxyalkanoates (PHA) by PHA depolymerase knockout mutant of <i>Pseudomonas putida</i> KT2442. <i>Bioresource Technology</i> , 2009, 100, 2265-2270.	9.6	105
61	Synthesis of Diblock copolymer poly-3-hydroxybutyrate -block-poly-3-hydroxyhexanoate [PHB-b-PHHx] by a β -oxidation weakened <i>Pseudomonas putida</i> KT2442. <i>Microbial Cell Factories</i> , 2012, 11, 44.	4.0	105
62	CRISPR/Cas9 editing genome of extremophile <i>Halomonas</i> spp.. <i>Metabolic Engineering</i> , 2018, 47, 219-229.	7.0	105
63	In vitro effect of oligo-hydroxyalkanoates on the growth of mouse fibroblast cell line L929. <i>Biomaterials</i> , 2007, 28, 3896-3903.	11.4	104
64	CRISPRi engineering <i>E. coli</i> for morphology diversification. <i>Metabolic Engineering</i> , 2016, 38, 358-369.	7.0	104
65	Microbial production of polyhydroxyalkanoate block copolymer by recombinant <i>Pseudomonas putida</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 659-669.	3.6	102
66	Effect of 3-hydroxyhexanoate content in poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) on in vitro growth and differentiation of smooth muscle cells. <i>Biomaterials</i> , 2006, 27, 2944-2950.	11.4	101
67	Processability modifications of poly(3-hydroxybutyrate) by plasticizing, blending, and stabilizing. <i>Journal of Applied Polymer Science</i> , 2008, 107, 166-173.	2.6	100
68	Production of poly-3-hydroxybutyrate by <i>Bacillus</i> sp. JMa5 cultivated in molasses media. <i>Antonie Van Leeuwenhoek</i> , 2001, 80, 111-118.	1.7	98
69	Open and continuous fermentation: Products, conditions and bioprocess economy. <i>Biotechnology Journal</i> , 2014, 9, 1503-1511.	3.5	98
70	Morphology engineering of bacteria for bio-production. <i>Biotechnology Advances</i> , 2016, 34, 435-440.	11.7	98
71	The effect of 3-hydroxybutyrate on the in vitro differentiation of murine osteoblast MC3T3-E1 and in vivo bone formation in ovariectomized rats. <i>Biomaterials</i> , 2007, 28, 3063-3073.	11.4	97
72	Biosynthesis and Characterization of Polyhydroxyalkanoate Block Copolymer P3HB- <i>b</i> -P4HB. <i>Biomacromolecules</i> , 2011, 12, 3166-3173.	5.4	97

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73	Engineering <i>Halomonas</i> species TD01 for enhanced polyhydroxyalkanoates synthesis via CRISPRi. <i>Microbial Cell Factories</i> , 2017, 16, 48.	4.0	96
74	Promoter Engineering for Enhanced P(3HB-co-4HB) Production by <i>Halomonas bluephagenesis</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 1897-1906.	3.8	95
75	Surface Stress Effects on the Bending Direction and Twisting Chirality of Lamellar Crystals of Chiral Polymer. <i>Macromolecules</i> , 2010, 43, 5762-5770.	4.8	94
76	YeastFab: the design and construction of standard biological parts for metabolic engineering in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2015, 43, e88-e88.	14.5	93
77	Novel T7-like expression systems used for <i>Halomonas</i> . <i>Metabolic Engineering</i> , 2017, 39, 128-140.	7.0	93
78	Biosynthesis and Characterization of Poly(3-hydroxydodecanoate) by β^2 -Oxidation Inhibited Mutant of <i>Pseudomonas entomophila</i> L48. <i>Biomacromolecules</i> , 2011, 12, 3559-3566.	5.4	90
79	The differential effects of aligned electrospun PHBHHx fibers on adipogenic and osteogenic potential of MSCs through the regulation of PPAR β signaling. <i>Biomaterials</i> , 2012, 33, 485-493.	11.4	90
80	New challenges and opportunities for industrial biotechnology. <i>Microbial Cell Factories</i> , 2012, 11, 111.	4.0	89
81	Engineering of <i>Halomonas bluephagenesis</i> for low cost production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) from glucose. <i>Metabolic Engineering</i> , 2018, 47, 143-152.	7.0	89
82	Improvement of mechanical properties of poly(dl-lactide) films by blending of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>European Polymer Journal</i> , 2006, 42, 764-775.	5.4	88
83	The improvement of fibroblast growth on hydrophobic biopolyesters by coating with polyhydroxyalkanoate granule binding protein PhaP fused with cell adhesion motif RGD. <i>Biomaterials</i> , 2010, 31, 8921-8930.	11.4	88
84	Production of novel polyhydroxyalkanoates by <i>Pseudomonas stutzeri</i> 1317 from glucose and soybean oil. <i>FEMS Microbiology Letters</i> , 1998, 169, 45-49.	1.8	86
85	Production and characterization of homopolymer polyhydroxyheptanoate (P3HHp) by a fadBA knockout mutant <i>Pseudomonas putida</i> KTOY06 derived from <i>P. putida</i> KT2442. <i>Process Biochemistry</i> , 2009, 44, 106-111.	3.7	86
86	Engineering NADH/NAD ⁺ ratio in <i>Halomonas bluephagenesis</i> for enhanced production of polyhydroxyalkanoates (PHA). <i>Metabolic Engineering</i> , 2018, 49, 275-286.	7.0	85
87	The mechanical properties and in vitro biodegradation and biocompatibility of UV-treated poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Biomaterials</i> , 2006, 27, 2349-2357.	11.4	83
88	The power of synthetic biology for bioproduction, remediation and pollution control. <i>EMBO Reports</i> , 2018, 19, .	4.5	83
89	Engineering microorganisms for improving polyhydroxyalkanoate biosynthesis. <i>Current Opinion in Biotechnology</i> , 2018, 53, 20-25.	6.6	82
90	The effect of 3-hydroxybutyrate and its derivatives on the growth of glial cells. <i>Biomaterials</i> , 2007, 28, 3608-3616.	11.4	79

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91	Interactions between a poly(3-hydroxybutyrate-co-3-hydroxyvalerate-co-3-hydroxyhexanoate) terpolyester and human keratinocytes. <i>Biomaterials</i> , 2008, 29, 3807-3814.	11.4	79
92	Production and characterization of homopolymer poly(3-hydroxyvalerate) (PHV) accumulated by wild type and recombinant <i>Aeromonas hydrophila</i> strain 4AK4. <i>Bioresource Technology</i> , 2009, 100, 4296-4299.	9.6	78
93	The application of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) scaffolds for tendon repair in the rat model. <i>Biomaterials</i> , 2013, 34, 6683-6694.	11.4	78
94	Increasing oxygen availability for improving poly(3-hydroxybutyrate) production by <i>Halomonas</i> . <i>Metabolic Engineering</i> , 2018, 45, 20-31.	7.0	78
95	Polyhydroxyalkanoates (PHA) toward cost competitiveness and functionality. <i>Advanced Industrial and Engineering Polymer Research</i> , 2020, 3, 1-7.	4.7	78
96	Studies on Comonomer Compositional Distribution of Bacterial Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)s and Thermal Characteristics of Their Factions. <i>Biomacromolecules</i> , 2002, 3, 1071-1077.	5.4	77
97	Enhanced production of d-(3-hydroxybutyric acid by recombinant <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2002, 213, 59-65.	1.8	77
98	Synthetic Biology and Genome-Editing Tools for Improving PHA Metabolic Engineering. <i>Trends in Biotechnology</i> , 2020, 38, 689-700.	9.3	77
99	Low carbon strategies for sustainable bio-alkane gas production and renewable energy. <i>Energy and Environmental Science</i> , 2020, 13, 1818-1831.	30.8	77
100	Disruption of the polyhydroxyalkanoate synthase gene in <i>Aeromonas hydrophila</i> reduces its survival ability under stress conditions. <i>FEMS Microbiology Letters</i> , 2007, 276, 34-41.	1.8	75
101	Production and characterization of medium-chain-length polyhydroxyalkanoate with high 3-hydroxytetradecanoate monomer content by <i>fadB</i> and <i>fadA</i> knockout mutant of <i>Pseudomonas putida</i> KT2442. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1153-1159.	3.6	75
102	Overexpression of NAD kinase in recombinant <i>Escherichia coli</i> harboring the <i>phbCAB</i> operon improves poly(3-hydroxybutyrate) production. <i>Applied Microbiology and Biotechnology</i> , 2009, 83, 939-947.	3.6	75
103	Polyhydroxyalkanoate synthases <i>PhaC1</i> and <i>PhaC2</i> from <i>Pseudomonas stutzeri</i> 1317 had different substrate specificities. <i>FEMS Microbiology Letters</i> , 2004, 234, 231-237.	1.8	73
104	Engineering the growth pattern and cell morphology for enhanced PHB production by <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9907-9916.	3.6	73
105	Rational flux-tuning of <i>Halomonas bluephagenesis</i> for co-production of bioplastic PHB and ectoine. <i>Nature Communications</i> , 2020, 11, 3313.	12.8	72
106	Sustained release of PI3K inhibitor from PHA nanoparticles and in vitro growth inhibition of cancer cell lines. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1423-1433.	3.6	71
107	Hyperproduction of poly(4-hydroxybutyrate) from glucose by recombinant <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012, 11, 54.	4.0	71
108	The expression of cross-linked elastin by rabbit blood vessel smooth muscle cells cultured in polyhydroxyalkanoate scaffolds. <i>Biomaterials</i> , 2008, 29, 4187-4194.	11.4	70

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109	Microbial Synthesis of Functional Homo-, Random, and Block Polyhydroxyalkanoates by $\hat{\Gamma}^2$ -Oxidation Deleted <i>Pseudomonas entomophila</i> . <i>Biomacromolecules</i> , 2014, 15, 2310-2319.	5.4	70
110	Production and characterization of terpolyester poly(3-hydroxybutyrate-co-3-hydroxyvalerate-co-3-hydroxyhexanoate) by recombinant <i>Aeromonas hydrophila</i> 4AK4 harboring genes phaAB. <i>Process Biochemistry</i> , 2007, 42, 1342-1347.	3.7	69
111	Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) as an injectable implant system for prevention of post-surgical tissue adhesion. <i>Biomaterials</i> , 2009, 30, 3075-3083.	11.4	69
112	Controlling cell volume for efficient PHB production by <i>Halomonas</i> . <i>Metabolic Engineering</i> , 2017, 44, 30-37.	7.0	69
113	<i>Pseudomonas putida</i> KT2442 as a platform for the biosynthesis of polyhydroxyalkanoates with adjustable monomer contents and compositions. <i>Bioresource Technology</i> , 2013, 142, 225-231.	9.6	68
114	Enhanced production of polyhydroxybutyrate by multiple dividing <i>E. coli</i> . <i>Microbial Cell Factories</i> , 2016, 15, 128.	4.0	68
115	Microbial polyhydroxyalkanoates as medical implant biomaterials. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1-18.	2.8	68
116	In vitro study on hemocompatibility and cytocompatibility of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 1107-1121.	3.5	67
117	Engineering cell wall synthesis mechanism for enhanced PHB accumulation in <i>E. coli</i> . <i>Metabolic Engineering</i> , 2018, 45, 32-42.	7.0	67
118	A novel self-cleaving phasin tag for purification of recombinant proteins based on hydrophobic polyhydroxyalkanoate nanoparticles. <i>Lab on A Chip</i> , 2008, 8, 1957.	6.0	66
119	Semirational Approach for Ultrahigh Poly(3-hydroxybutyrate) Accumulation in <i>Escherichia coli</i> by Combining One-Step Library Construction and High-Throughput Screening. <i>ACS Synthetic Biology</i> , 2016, 5, 1308-1317.	3.8	66
120	The impact of PHB accumulation on l-glutamate production by recombinant <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2007, 132, 273-279.	3.8	65
121	Chromosome engineering of the TCA cycle in <i>Halomonas bluephagenesis</i> for production of copolymers of 3-hydroxybutyrate and 3-hydroxyvalerate (PHBV). <i>Metabolic Engineering</i> , 2019, 54, 69-82.	7.0	65
122	Production of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) from Gluconate and Glucose by Recombinant <i>Aeromonas hydrophila</i> and <i>Pseudomonas putida</i> . <i>Biotechnology Letters</i> , 2005, 27, 1381-1386.	2.2	64
123	Comparative genomics study of polyhydroxyalkanoates (PHA) and ectoine relevant genes from <i>Halomonas</i> sp. TD01 revealed extensive horizontal gene transfer events and co-evolutionary relationships. <i>Microbial Cell Factories</i> , 2011, 10, 88.	4.0	64
124	MicroRNA regulation associated chondrogenesis of mouse MSCs grown on polyhydroxyalkanoates. <i>Biomaterials</i> , 2011, 32, 6435-6444.	11.4	64
125	Effect of lipase treatment on the biocompatibility of microbial polyhydroxyalkanoates. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 849-854.	3.6	63
126	Construction of pha-Operon-Defined Knockout Mutants of <i>Pseudomonas putida</i> KT2442 and their Applications in Poly(hydroxyalkanoate) Production. <i>Macromolecular Bioscience</i> , 2007, 7, 227-233.	4.1	63

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127	Production of polyhydroxyalkanoates (PHA) by bacterial consortium from excess sludge fermentation liquid at laboratory and pilot scales. <i>Bioresource Technology</i> , 2014, 171, 159-167.	9.6	63
128	Next-Generation Industrial Biotechnology—Transforming the Current Industrial Biotechnology into Competitive Processes. <i>Biotechnology Journal</i> , 2019, 14, e1800437.	3.5	63
129	Metabolic Engineering for the Production of Copolyesters Consisting of 3-Hydroxybutyrate and 3-Hydroxyhexanoate by <i>Aeromonas hydrophila</i> . <i>Macromolecular Bioscience</i> , 2004, 4, 255-261.	4.1	62
130	Microbial production of R-3-hydroxybutyric acid by recombinant <i>E. coli</i> harboring genes of <i>phbA</i> , <i>phbB</i> , and <i>tesB</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 811-818.	3.6	62
131	The “PHAome”™. <i>Trends in Biotechnology</i> , 2015, 33, 559-564.	9.3	62
132	Production of poly-b-hydroxybutyrate by <i>Azotobacter vinelandii</i> in a two-stage fermentation process. <i>Biotechnology Letters</i> , 1997, 11, 347-350.	0.5	61
133	Co-production of microbial polyhydroxyalkanoates with other chemicals. <i>Metabolic Engineering</i> , 2017, 43, 29-36.	7.0	61
134	Biocompatibility of poly(3-hydroxybutyrate-co-3-hydroxyvalerate-co-3-hydroxyhexanoate) with bone marrow mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2009, 5, 1115-1125.	8.3	60
135	The effect of 3-hydroxybutyrate methyl ester on learning and memory in mice. <i>Biomaterials</i> , 2009, 30, 1532-1541.	11.4	60
136	Synthetic biology of microbes synthesizing polyhydroxyalkanoates (PHA). <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 236-242.	3.7	60
137	The mechanism of anti-osteoporosis effects of 3-hydroxybutyrate and derivatives under simulated microgravity. <i>Biomaterials</i> , 2014, 35, 8273-8283.	11.4	59
138	Influence of dl- β -Hydroxybutyric Acid on Cell Proliferation and Calcium Influx. <i>Biomacromolecules</i> , 2005, 6, 593-597.	5.4	58
139	Production of two monomer structures containing medium-chain-length polyhydroxyalkanoates by β^2 -oxidation-impaired mutant of <i>Pseudomonas putida</i> KT2442. <i>Bioresource Technology</i> , 2009, 100, 4891-4894.	9.6	57
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