

Guo-Qiang Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

340
papers

19,007
citations

75
h-index

118
g-index

371
ext. papers

21,512
ext. citations

7.9
avg, IF

7.36
L-index

#	Paper	IF	Citations
340	Hyperproduction of PHA copolymers containing high fractions of 4-hydroxybutyrate (4HB) by outer membrane-defected Halomonas bluephagenesis grown in bioreactors.. <i>Microbial Biotechnology</i> , 2022 ,	6.3	3
339	Halophyte biorefinery for polyhydroxyalkanoates production from Ulva sp. Hydrolysate with Haloferax mediterranei in pneumatically agitated bioreactors and ultrasound harvesting. <i>Bioresource Technology</i> , 2022 , 344, 125964	11	1
338	Engineered Halomonas spp. for production of l-Lysine and cadaverine.. <i>Bioresource Technology</i> , 2022 , 349, 126865	11	2
337	Duo Cadherin-Functionalized Microparticles Synergistically Induce Chondrogenesis and Cartilage Repair of Stem Cell Aggregates.. <i>Advanced Healthcare Materials</i> , 2022 , e2200246	10.1	0
336	Effective production of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by engineered Halomonas bluephagenesis grown on glucose and 1,4-Butanediol.. <i>Bioresource Technology</i> , 2022 , 355, 127270	11	0
335	Engineering an oleic acid-induced system for Halomonas, E. coli and Pseudomonas.. <i>Metabolic Engineering</i> , 2022 , 72, 325-336	9.7	0
334	Applications and Mechanism of 3-Hydroxybutyrate (3HB) for Prevention of Colonic Inflammation and Carcinogenesis as a Food Supplement. <i>Molecular Nutrition and Food Research</i> , 2021 , e2100533	5.9	0
333	Hyperproduction of 3-hydroxypropionate by Halomonas bluephagenesis. <i>Nature Communications</i> , 2021 , 12, 1513	17.4	12
332	Reversible thermal regulation for bifunctional dynamic control of gene expression in Escherichia coli. <i>Nature Communications</i> , 2021 , 12, 1411	17.4	7
331	Engineering Halomonas bluephagenesis as a chassis for bioproduction from starch. <i>Metabolic Engineering</i> , 2021 , 64, 134-145	9.7	3
330	Ketone Body 3-Hydroxybutyrate Ameliorates Atherosclerosis via Receptor Gpr109a-Mediated Calcium Influx. <i>Advanced Science</i> , 2021 , 8, 2003410	13.6	12
329	Gastrointestinal Microenvironment and the Gut-Lung Axis in the Immune Responses of Severe COVID-19. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 647508	5.6	3
328	Polyhydroxyalkanoates and biochar from green macroalgal Ulva sp. biomass subcritical hydrolysates: Process optimization and a priori economic and greenhouse emissions break-even analysis. <i>Science of the Total Environment</i> , 2021 , 770, 145281	10.2	4
327	Tailor-Made Polyhydroxyalkanoates by Reconstructing Pseudomonas Entomophila. <i>Advanced Materials</i> , 2021 , 33, e2102766	24	4
326	On the future fermentation. <i>Microbial Biotechnology</i> , 2021 , 14, 18-21	6.3	5
325	Halomonas as a chassis. <i>Essays in Biochemistry</i> , 2021 , 65, 393-403	7.6	4
324	On the nutritional and therapeutic effects of ketone body D-β-hydroxybutyrate. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 6229-6243	5.7	4

323	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. <i>Environmental Sciences Europe</i> , 2021 , 33, 99	5	10
322	Engineering the permeability of Halomonas bluephagenesis enhanced its chassis properties. <i>Metabolic Engineering</i> , 2021 , 67, 53-66	9.7	8
321	An updated overview on the regulatory circuits of polyhydroxyalkanoates synthesis. <i>Microbial Biotechnology</i> , 2021 ,	6.3	1
320	Construction of a sustainable 3-hydroxybutyrate-producing probiotic Escherichia coli for treatment of colitis. <i>Cellular and Molecular Immunology</i> , 2021 , 18, 2344-2357	15.4	8
319	Biodegradable polyhydroxyalkanoates production from wheat straw by recombinant Halomonas elongata A1. <i>International Journal of Biological Macromolecules</i> , 2021 , 187, 675-682	7.9	5
318	Grand Challenges for Industrializing Polyhydroxyalkanoates (PHAs). <i>Trends in Biotechnology</i> , 2021 , 39, 953-963	15.1	47
317	Low carbon strategies for sustainable bio-alkane gas production and renewable energy. <i>Energy and Environmental Science</i> , 2020 , 13, 1818-1831	35.4	36
316	Production of polyhydroxyalkanoate from acetate by metabolically engineered Aeromonas hydrophilia. <i>Journal of Bioscience and Bioengineering</i> , 2020 , 130, 290-294	3.3	5
315	Biosynthesis of functional polyhydroxyalkanoates by engineered Halomonas bluephagenesis. <i>Metabolic Engineering</i> , 2020 , 59, 119-130	9.7	23
314	Synthetic Biology and Genome-Editing Tools for Improving PHA Metabolic Engineering. <i>Trends in Biotechnology</i> , 2020 , 38, 689-700	15.1	45
313	Stimulus response-based fine-tuning of polyhydroxyalkanoate pathway in Halomonas. <i>Metabolic Engineering</i> , 2020 , 57, 85-95	9.7	23
312	Polyhydroxyalkanoates (PHA) toward cost competitiveness and functionality. <i>Advanced Industrial and Engineering Polymer Research</i> , 2020 , 3, 1-7	7.3	37
311	Rational flux-tuning of Halomonas bluephagenesis for co-production of bioplastic PHB and ectoine. <i>Nature Communications</i> , 2020 , 11, 3313	17.4	25
310	Engineering biosynthesis of polyhydroxyalkanoates (PHA) for diversity and cost reduction. <i>Metabolic Engineering</i> , 2020 , 58, 82-93	9.7	76
309	Engineering Halomonas bluephagenesis for L-Threonine production. <i>Metabolic Engineering</i> , 2020 , 60, 119-127	9.7	10
308	Microbial Poly-3-Hydroxybutyrate (PHB) as a Feed Additive for Fishes and Piglets. <i>Biotechnology Journal</i> , 2019 , 14, e1900132	5.6	11
307	A Direct RNA-to-RNA Replication System for Enhanced Gene Expression in Bacteria. <i>ACS Synthetic Biology</i> , 2019 , 8, 1067-1078	5.7	2
306	Synthesis and Characterization of Polyhydroxyalkanoate Organo/Hydrogels. <i>Biomacromolecules</i> , 2019 , 20, 3303-3312	6.9	11

305	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 929-993	5	1
304	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	9.7	31
303	Microbial engineering for easy downstream processing. <i>Biotechnology Advances</i> , 2019 , 37, 107365	17.8	27
302	Manipulation of polyhydroxyalkanoate granular sizes in <i>Halomonas bluephagenesis</i> . <i>Metabolic Engineering</i> , 2019 , 54, 117-126	9.7	28
301	Next-Generation Industrial Biotechnology-Transforming the Current Industrial Biotechnology into Competitive Processes. <i>Biotechnology Journal</i> , 2019 , 14, e1800437	5.6	25
300	Polyhydroxyalkanoate/Polyhydroxybutyrate 2019 , 244-257		
299	A tight cold-inducible switch built by coupling thermosensitive transcriptional and proteolytic regulatory parts. <i>Nucleic Acids Research</i> , 2019 , 47, e137	20.1	15
298	Synthesis and Characterization of Electroconductive PHA- graft-Graphene Nanocomposites. <i>Biomacromolecules</i> , 2019 , 20, 645-652	6.9	17
297	Superhydrophobic Polyhydroxyalkanoates: Preparation and Applications. <i>Biomacromolecules</i> , 2019 , 20, 618-624	6.9	4
296	Engineering <i>Pseudomonas entomophila</i> for synthesis of copolymers with defined fractions of 3-hydroxybutyrate and medium-chain-length 3-hydroxyalkanoates. <i>Metabolic Engineering</i> , 2019 , 52, 253-262	9.7	17
295	Highly Efficient Fluorescent Material Based on Rare-Earth-Modified Polyhydroxyalkanoates. <i>Biomacromolecules</i> , 2019 , 20, 3233-3241	6.9	18
294	Engineering self-flocculating <i>Halomonas campaniensis</i> for wastewaterless open and continuous fermentation. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 805-815	4.9	15
293	Synthetic Biology of Polyhydroxyalkanoates (PHA). <i>Advances in Biochemical Engineering/Biotechnology</i> , 2018 , 162, 147-174	1.7	27
292	Engineering cell wall synthesis mechanism for enhanced PHB accumulation in <i>E. coli</i> . <i>Metabolic Engineering</i> , 2018 , 45, 32-42	9.7	51
291	Pilot Scale-up of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Production by <i>Halomonas bluephagenesis</i> via Cell Growth Adapted Optimization Process. <i>Biotechnology Journal</i> , 2018 , 13, e1800074	5.6	33
290	Suspended polyhydroxyalkanoate microspheres as 3D carriers for mammalian cell growth. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 473-483	6.1	14
289	Construction of <i>Halomonas bluephagenesis</i> capable of high cell density growth for efficient PHA production. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 4499-4510	5.7	27
288	Polyhydroxyalkanoates (PHA) for therapeutic applications. <i>Materials Science and Engineering C</i> , 2018 , 86, 144-150	8.3	129

287	The power of synthetic biology for bioproduction, remediation and pollution control: The UNS Sustainable Development Goals will inevitably require the application of molecular biology and biotechnology on a global scale. <i>EMBO Reports</i> , 2018 , 19,	6.5	56
286	CRISPR/Cas9 editing genome of extremophile Halomonas spp. <i>Metabolic Engineering</i> , 2018 , 47, 219-229	9.7	54
285	Engineering of Halomonas bluephagenesis for low cost production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) from glucose. <i>Metabolic Engineering</i> , 2018 , 47, 143-152	9.7	54
284	Effects of uracil on crystallization and rheological property of poly(R-3-hydroxybutyrate-co-4-hydroxybutyrate). <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 109, 141-150	8.4	9
283	Engineering peptidoglycan degradation related genes of Bacillus subtilis for better fermentation processes. <i>Bioresource Technology</i> , 2018 , 248, 238-247	11	7
282	Microbial polyhydroxyalkanoates as medical implant biomaterials. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 1-18	6.1	50
281	Promoter Engineering for Enhanced P(3HB- co-4HB) Production by Halomonas bluephagenesis. <i>ACS Synthetic Biology</i> , 2018 , 7, 1897-1906	5.7	54
280	Halophiles as Chassis for Bioproduction. <i>Advanced Biology</i> , 2018 , 2, 1800088	3.5	17
279	Reprogramming Halomonas for industrial production of chemicals. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 545-554	4.2	23
278	Efficient Genome Engineering of a Virulent Klebsiella Bacteriophage Using CRISPR-Cas9. <i>Journal of Virology</i> , 2018 , 92,	6.6	24
277	Graphene oxide as an antimicrobial agent can extend the vase life of cut flowers. <i>Nano Research</i> , 2018 , 11, 6010-6022	10	14
276	A Micro-Ark for Cells: Highly Open Porous Polyhydroxyalkanoate Microspheres as Injectable Scaffolds for Tissue Regeneration. <i>Advanced Materials</i> , 2018 , 30, e1802273	24	109
275	Engineering microorganisms for improving polyhydroxyalkanoate biosynthesis. <i>Current Opinion in Biotechnology</i> , 2018 , 53, 20-25	11.4	61
274	Next generation industrial biotechnology based on extremophilic bacteria. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 94-100	11.4	165
273	Increasing oxygen availability for improving poly(3-hydroxybutyrate) production by Halomonas. <i>Metabolic Engineering</i> , 2018 , 45, 20-31	9.7	56
272	A Multiplex Genome Editing Method for Based on CRISPR-Cas12a. <i>Frontiers in Microbiology</i> , 2018 , 9, 2307	5.7	29
271	Identification of a cellularly active SIRT6 allosteric activator. <i>Nature Chemical Biology</i> , 2018 , 14, 1118-1126	6.7	116
270	Engineering NADH/NAD ratio in Halomonas bluephagenesis for enhanced production of polyhydroxyalkanoates (PHA). <i>Metabolic Engineering</i> , 2018 , 49, 275-286	9.7	48

269	Comparative analysis of CRISPR-Cas systems in Klebsiella genomes. <i>Journal of Basic Microbiology</i> , 2017 , 57, 325-336	2.7	24
268	Synthesis of Medium-Chain-Length Polyhydroxyalkanoate Homopolymers, Random Copolymers, and Block Copolymers by an Engineered Strain of <i>Pseudomonas entomophila</i> . <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601017	10.1	43
267	Engineering the ribosomal DNA in a megabase synthetic chromosome. <i>Science</i> , 2017 , 355,	33.3	99
266	Polyhydroxyalkanoates: Sustainability, Production, and Industrialization 2017 , 11-33		9
265	Engineering Halomonas species TD01 for enhanced polyhydroxyalkanoates synthesis via CRISPRi. <i>Microbial Cell Factories</i> , 2017 , 16, 48	6.4	64
264	Novel T7-like expression systems used for Halomonas. <i>Metabolic Engineering</i> , 2017 , 39, 128-140	9.7	58
263	Controlling microbial PHB synthesis via CRISPRi. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 5861-5867	5.7	33
262	Study of the tensile properties of individual multicellular fibres generated by <i>Bacillus subtilis</i> . <i>Scientific Reports</i> , 2017 , 7, 46052	4.9	7
261	Unveiling the 30-year mystery of polyhydroxyalkanoate (PHA) synthase. <i>Biotechnology Journal</i> , 2017 , 12, 1600659	5.6	3
260	Engineering bacteria for enhanced polyhydroxyalkanoates (PHA) biosynthesis. <i>Synthetic and Systems Biotechnology</i> , 2017 , 2, 192-197	4.2	79
259	Modelling of microbial polyhydroxyalkanoate surface binding protein PhaP for rational mutagenesis. <i>Microbial Biotechnology</i> , 2017 , 10, 1400-1411	6.3	7
258	Polyhydroxyalkanoates: Microbial Synthesis and Applications 2017 , 1-13		
257	Controlling cell volume for efficient PHB production by Halomonas. <i>Metabolic Engineering</i> , 2017 , 44, 30-37	9.7	47
256	Engineering Halomonas bluephagenesis TD01 for non-sterile production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>Bioresource Technology</i> , 2017 , 244, 534-541	11	81
255	Co-production of microbial polyhydroxyalkanoates with other chemicals. <i>Metabolic Engineering</i> , 2017 , 43, 29-36	9.7	45
254	Microbial synthesis of a novel terpolyester P(LA-co-3HB-co-3HP) from low-cost substrates. <i>Microbial Biotechnology</i> , 2017 , 10, 371-380	6.3	21
253	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 31-55	13	394
252	Additive manufacturing of poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] scaffolds for engineered bone development. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 175-186	4.4	41

251	Comb-like temperature-responsive polyhydroxyalkanoate-graft-poly(2-dimethylamino-ethylmethacrylate) for controllable protein adsorption. <i>Polymer Chemistry</i> , 2016 , 7, 5957-5965	4.9	32
250	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	5.7	57
249	Enhanced production of poly-3-hydroxybutyrate by recombinant <i>Escherichia coli</i> containing NAD kinase and phbCAB operon. <i>Science China Chemistry</i> , 2016 , 59, 1390-1396	7.9	3
248	Synthetic biology of microbes synthesizing polyhydroxyalkanoates (PHA). <i>Synthetic and Systems Biotechnology</i> , 2016 , 1, 236-242	4.2	44
247	Microbial Synthesis of 5-Aminolevulinic Acid and Its Coproduction with Polyhydroxybutyrate. <i>ACS Synthetic Biology</i> , 2016 , 5, 1264-1274	5.7	44
246	A novel cell autolysis system for cost-competitive downstream processing. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 9103-9110	5.7	20
245	Omics Meets Metabolic Pathway Engineering. <i>Cell Systems</i> , 2016 , 2, 362-3	10.6	8
244	Morphology engineering of bacteria for bio-production. <i>Biotechnology Advances</i> , 2016 , 34, 435-440	17.8	70
243	Synthesis, Characterization and Application of Thermoresponsive Polyhydroxyalkanoate-graft-Poly(N-isopropylacrylamide). <i>Biomacromolecules</i> , 2016 , 17, 2680-90	6.9	38
242	Enhanced production of polyhydroxybutyrate by multiple dividing <i>E. coli</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 128	6.4	50
241	Structural Insights on PHA Binding Protein PhaP from <i>Aeromonas hydrophila</i> . <i>Scientific Reports</i> , 2016 , 6, 39424	4.9	19
240	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	5.7	47
239	SYNBIOCHEM-a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , 2016 , 44, 675-7	5.1	5
238	CRISPRi engineering <i>E. coli</i> for morphology diversification. <i>Metabolic Engineering</i> , 2016 , 38, 358-369	9.7	77
237	Engineering <i>Halomonas</i> spp. as A Low-Cost Production Host for Production of Bio-surfactant Protein PhaP. <i>Biotechnology Journal</i> , 2016 , 11, 1595-1604	5.6	24
236	Engineering of core promoter regions enables the construction of constitutive and inducible promoters in <i>Halomonas</i> sp. <i>Biotechnology Journal</i> , 2016 , 11, 219-27	5.6	28
235	Engineering the bacterial shapes for enhanced inclusion bodies accumulation. <i>Metabolic Engineering</i> , 2015 , 29, 227-237	9.7	89
234	Production of poly(3-hydroxypropionate) and poly(3-hydroxybutyrate-co-3-hydroxypropionate) from glucose by engineering <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2015 , 29, 189-195	9.7	38

233	Effects of chromosomal gene copy number and locations on polyhydroxyalkanoate synthesis by <i>Escherichia coli</i> and <i>Halomonas</i> sp. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 5523-34	5.7	36
232	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	20.1	60
231	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	9.7	178
230	Engineering Biosynthesis Mechanisms for Diversifying Polyhydroxyalkanoates. <i>Trends in Biotechnology</i> , 2015 , 33, 565-574	15.1	90
229	Sustained PDGF-BB release from PHBHHx loaded nanoparticles in 3D hydrogel/stem cell model. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 282-8	5.4	10
228	Halophiles, coming stars for industrial biotechnology. <i>Biotechnology Advances</i> , 2015 , 33, 1433-42	17.8	170
227	A strategy for enhanced circular DNA construction efficiency based on DNA cyclization after microbial transformation. <i>Microbial Cell Factories</i> , 2015 , 14, 18	6.4	4
226	White Biotechnology for Biopolymers 2015 , 555-574		4
225	The Φ HAomeS <i>Trends in Biotechnology</i> , 2015 , 33, 559-564	15.1	55
224	Engineering the diversity of polyesters. <i>Current Opinion in Biotechnology</i> , 2014 , 29, 24-33	11.4	96
223	Microbial synthesis of functional homo-, random, and block polyhydroxyalkanoates by Δ oxidation deleted <i>Pseudomonas entomophila</i> . <i>Biomacromolecules</i> , 2014 , 15, 2310-9	6.9	58
222	Development of an enhanced chromosomal expression system based on porin synthesis operon for halophile <i>Halomonas</i> sp. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 8987-97	5.7	34
221	Production of polyhydroxyalkanoates (PHA) by bacterial consortium from excess sludge fermentation liquid at laboratory and pilot scales. <i>Bioresource Technology</i> , 2014 , 171, 159-67	11	51
220	Engineering <i>Halomonas</i> TD01 for the low-cost production of polyhydroxyalkanoates. <i>Metabolic Engineering</i> , 2014 , 26, 34-47	9.7	117
219	The mechanism of anti-osteoporosis effects of 3-hydroxybutyrate and derivatives under simulated microgravity. <i>Biomaterials</i> , 2014 , 35, 8273-83	15.6	43
218	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, 183-93	9.7	96
217	Development of <i>Halomonas</i> TD01 as a host for open production of chemicals. <i>Metabolic Engineering</i> , 2014 , 23, 78-91	9.7	104
216	Polyhydroxyalkanoates, challenges and opportunities. <i>Current Opinion in Biotechnology</i> , 2014 , 30, 59-65	11.4	213

215	Open and continuous fermentation: products, conditions and bioprocess economy. <i>Biotechnology Journal</i> , 2014 , 9, 1503-11	5.6	74
214	Effects of cascaded vgb promoters on poly(hydroxybutyrate) (PHB) synthesis by recombinant <i>Escherichia coli</i> grown micro-aerobically. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 10013-21	5.7	30
213	Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) nanoparticles with polyethylenimine coat as simple, safe, and versatile vehicles for cell targeting: population characteristics, cell uptake, and intracellular trafficking. <i>Advanced Healthcare Materials</i> , 2014 , 3, 817-24	10.1	36
212	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, 108	7.8	93
211	Benzene containing polyhydroxyalkanoates homo- and copolymers synthesized by genome edited <i>Pseudomonas entomophila</i> . <i>Science China Life Sciences</i> , 2014 , 57, 4-10	8.5	42
210	Production of medium-chain-length 3-hydroxyalkanoic acids by β -oxidation and phaC operon deleted <i>Pseudomonas entomophila</i> harboring thioesterase gene. <i>Metabolic Engineering</i> , 2013 , 17, 23-9	9.7	29
209	3-Hydroxybutyrate methyl ester as a potential drug against Alzheimer's disease via mitochondria protection mechanism. <i>Biomaterials</i> , 2013 , 34, 7552-62	15.6	84
208	Induced apoptosis of osteoblasts proliferating on polyhydroxyalkanoates. <i>Biomaterials</i> , 2013 , 34, 3737-46	15.6	19
207	The application of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) scaffolds for tendon repair in the rat model. <i>Biomaterials</i> , 2013 , 34, 6683-94	15.6	63
206	Biosynthesis and characterization of diblock copolymer of p(3-hydroxypropionate)-block-p(4-hydroxybutyrate) from recombinant <i>Escherichia coli</i> . <i>Biomacromolecules</i> , 2013 , 14, 862-70	6.9	45
205	Poly (3-hydroxybutyrate-co-3-hydroxyhexanoate)/collagen hybrid scaffolds for tissue engineering applications. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 577-85	2.9	41
204	<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, 225-31	11	60
203	Enhanced proliferation and differentiation of neural stem cells grown on PHA films coated with recombinant fusion proteins. <i>Acta Biomaterialia</i> , 2013 , 9, 7845-54	10.8	38
202	Production of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) by Recombinant <i>Pseudomonas stutzeri</i> 1317 from Unrelated Carbon Sources. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 1057-1061	10.6	4
201	Application of polyhydroxyalkanoate (PHA) synthesis regulatory protein PhaR as a bio-surfactant and bactericidal agent. <i>Journal of Biotechnology</i> , 2013 , 166, 34-41	3.7	20
200	Medical applications of biopolyesters polyhydroxyalkanoates. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 719-736	3.5	39
199	Fabrication of carbon nanotube (CNT)/poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHx) nanocomposite films for human mesenchymal stem cell (hMSC) differentiation. <i>Polymer Chemistry</i> , 2013 , 4, 4490	4.9	25
198	Genomic study of polyhydroxyalkanoates producing <i>Aeromonas hydrophila</i> 4AK4. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 9099-109	5.7	17

197	DNA fragments assembly based on nicking enzyme system. <i>PLoS ONE</i> , 2013 , 8, e57943	3.7	24
196	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, 485-93	15.6	79
195	The cytocompatibility of polyhydroxyalkanoates coated with a fusion protein of PHA repressor protein (PhaR) and Lys-Gln-Ala-Gly-Asp-Val (KQAGDV) polypeptide. <i>Biomaterials</i> , 2012 , 33, 2593-9	15.6	18
194	A rapid-acting, long-acting insulin formulation based on a phospholipid complex loaded PHBHHx nanoparticles. <i>Biomaterials</i> , 2012 , 33, 1583-8	15.6	112
193	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, 317-24	9.7	102
192	Enhanced co-production of hydrogen and poly-(R)-3-hydroxybutyrate by recombinant PHB producing <i>E. coli</i> over-expressing hydrogenase 3 and acetyl-CoA synthetase. <i>Metabolic Engineering</i> , 2012 , 14, 496-503	9.7	28
191	Transient embolization with microspheres of polyhydroxyalkanoate renders efficient adenoviral transduction of pancreatic capillary in vivo. <i>Journal of Gene Medicine</i> , 2012 , 14, 530-9	3.5	6
190	Production of copolyesters of 3-hydroxybutyrate and medium-chain-length 3-hydroxyalkanoates by <i>E. coli</i> containing an optimized PHA synthase gene. <i>Microbial Cell Factories</i> , 2012 , 11, 130	6.4	16
189	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	6.4	83
188	Hyperproduction of poly(4-hydroxybutyrate) from glucose by recombinant <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012 , 11, 54	6.4	60
187	Plastics derived from biological sources: present and future: a technical and environmental review. <i>Chemical Reviews</i> , 2012 , 112, 2082-99	68.1	641
186	Polymer nanoparticles. <i>Progress in Molecular Biology and Translational Science</i> , 2011 , 104, 299-323	4	83
185	Biosynthesis and characterization of polyhydroxyalkanoate block copolymer P3HB-b-P4HB. <i>Biomacromolecules</i> , 2011 , 12, 3166-73	6.9	82
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54	Effects of crystallization of polyhydroxyalkanoate blend on surface physicochemical properties and interactions with rabbit articular cartilage chondrocytes. <i>Biomaterials</i> , 2005 , 26, 3537-48	15.6	111

53	Construction of highly efficient E. coli expression systems containing low oxygen induced promoter and partition region. <i>Applied Microbiology and Biotechnology</i> , 2005 , 68, 346-54	5.7	20
52	Microbial production and applications of chiral hydroxyalkanoates. <i>Applied Microbiology and Biotechnology</i> , 2005 , 67, 592-9	5.7	114
51	Enhanced vascular-related cellular affinity on surface modified copolyesters of 3-hydroxybutyrate and 3-hydroxyhexanoate (PHBHHx). <i>Biomaterials</i> , 2005 , 26, 6991-7001	15.6	120
50	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, 1381-6	3	53
49	Thioesterase II of <i>Escherichia coli</i> plays an important role in 3-hydroxydecanoic acid production. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 3807-13	4.8	42
48	Polyhydroxyalkanoate synthases PhaC1 and PhaC2 from <i>Pseudomonas stutzeri</i> 1317 had different substrate specificities. <i>FEMS Microbiology Letters</i> , 2004 , 234, 231-237	2.9	70
47	Molecular cloning of polyhydroxyalkanoate synthesis operon from <i>Aeromonas hydrophila</i> and its expression in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2004 , 20, 1332-6	2.8	24
46	Production of 3-hydroxydecanoic acid by recombinant <i>Escherichia coli</i> HB101 harboring phaG gene. <i>Antonie Van Leeuwenhoek</i> , 2004 , 85, 93-101	2.1	23
45	Production of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) with flexible 3-hydroxyhexanoate content in <i>Aeromonas hydrophila</i> CGMCC 0911. <i>Applied Microbiology and Biotechnology</i> , 2004 , 64, 41-5	5.7	26
44	Attachment, proliferation and differentiation of osteoblasts on random biopolyester poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) scaffolds. <i>Biomaterials</i> , 2004 , 25, 669-75	15.6	203
43	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, 255-61	5.5	57
42	Deep Quenching: A Special Method to Study Stress-Induced Crystallization and Control the Lamellar Growth Direction. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1549-1553	4.8	
41	Studies on bone marrow stromal cells affinity of poly (3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Biomaterials</i> , 2004 , 25, 1365-73	15.6	99
40	Biodegradation studies of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Polymer Degradation and Stability</i> , 2004 , 85, 815-821	4.7	92
39	Engineered <i>Aeromonas hydrophila</i> for enhanced production of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) with alterable monomers composition. <i>FEMS Microbiology Letters</i> , 2004 , 239, 195-201	2.9	36
38	Polyhydroxyalkanoate synthases PhaC1 and PhaC2 from <i>Pseudomonas stutzeri</i> 1317 had different substrate specificities. <i>FEMS Microbiology Letters</i> , 2004 , 234, 231-7	2.9	14
37	New Growth Features of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Banded Spherulites. <i>Polymer Journal</i> , 2003 , 35, 460-464	2.7	4
36	Production of Hydroxyalkanoate Monomers by Microbial Fermentation. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 1170-1173	0.8	6

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34	Polyhydroxyalkanoate (PHA) scaffolds with good mechanical properties and biocompatibility. <i>Biomaterials</i> , 2003 , 24, 1041-5	15.6	256
33	Reduced mouse fibroblast cell growth by increased hydrophilicity of microbial polyhydroxyalkanoates via hyaluronan coating. <i>Biomaterials</i> , 2003 , 24, 4621-9	15.6	142
32	Poly(hydroxybutyrate-co-hydroxyhexanoate) promoted production of extracellular matrix of articular cartilage chondrocytes in vitro. <i>Biomaterials</i> , 2003 , 24, 4273-81	15.6	107
31	Enhanced production of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) via manipulating the fatty acid beta-oxidation pathway in E. coli. <i>FEMS Microbiology Letters</i> , 2003 , 221, 97-101	2.9	40
30	Terraces on banded spherulites of polyhydroxyalkanoates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 2128-2134	2.6	26
29	Production of D-(-)-3-hydroxyalkanoic acid by recombinant Escherichia coli. <i>FEMS Microbiology Letters</i> , 2003 , 218, 59-64	2.9	22
28	Induced production of rabbit articular cartilage-derived chondrocyte collagen II on polyhydroxyalkanoate blends. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003 , 14, 615-24	3.5	29
27	Production and Applications of Microbial Polyhydroxyalkanoates 2003 , 155-166		8
26	Quantitation of yeast ceramides using high-performance liquid chromatography-evaporative light-scattering detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 780, 161-9	3.2	11
25	Two-dimensional Fourier transform infrared spectroscopy study of biosynthesized poly(hydroxybutyrate-co-hydroxyhexanoate) and poly(hydroxybutyrate-co-hydroxyvalerate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 649-656	2.6	27
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23	Study on the three-dimensional proliferation of rabbit articular cartilage-derived chondrocytes on polyhydroxyalkanoate scaffolds. <i>Biomaterials</i> , 2002 , 23, 4049-56	15.6	194
22	PCR cloning of polyhydroxyalkanoate biosynthesis genes from Burkholderia caryophylli and their functional expression in recombinant Escherichia coli. <i>FEMS Microbiology Letters</i> , 2002 , 210, 49-54	2.9	21
21	Enhanced production of D-(-)-3-hydroxybutyric acid by recombinant Escherichia coli. <i>FEMS Microbiology Letters</i> , 2002 , 213, 59-65	2.9	72
20	In situ FTIR study on melting and crystallization of polyhydroxyalkanoates. <i>Polymer</i> , 2002 , 43, 6893-6899	3.9	160
19	Effect of lipase treatment on the biocompatibility of microbial polyhydroxyalkanoates. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 849-54	4.5	55
18	Studies on comonomer compositional distribution of bacterial poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)s and thermal characteristics of their fractions. <i>Biomacromolecules</i> , 2002 , 3, 1071-7	6.9	68

17	Two-dimensional Fourier transform infrared spectroscopy study of biosynthesized poly(hydroxybutyrate-co-hydroxyhexanoate) and poly(hydroxybutyrate-co-hydroxyvalerate) 2002 , 40, 649		1
16	Thermal analyses of poly(3-hydroxybutyrate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate), and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Journal of Applied Polymer Science</i> , 2001 , 82, 90-98	2.9	46
15	Study of microbial polyhydroxyalkanoates using two-dimensional Fourier-transform infrared correlation spectroscopy. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 934-940	2.9	45
14	Production of poly-3-hydroxybutyrate by <i>Bacillus</i> sp. JMa5 cultivated in molasses media. <i>Antonie Van Leeuwenhoek</i> , 2001 , 80, 111-8	2.1	77
13	PCR cloning of type II polyhydroxyalkanoate biosynthesis genes from two <i>Pseudomonas</i> strains. <i>FEMS Microbiology Letters</i> , 2001 , 198, 165-70	2.9	25
12	Study of Thermal Melting Behavior of Microbial Polyhydroxyalkanoate Using Two-Dimensional Fourier Transform Infrared Correlation Spectroscopy. <i>Applied Spectroscopy</i> , 2001 , 55, 888-893	3.1	48
11	Study of microbial polyhydroxyalkanoates using two-dimensional Fourier-transform infrared correlation spectroscopy 2001 , 82, 934		1
10	Production of polyesters consisting of medium chain length 3-hydroxyalkanoic acids by <i>Pseudomonas mendocina</i> 0806 from various carbon sources. <i>Antonie Van Leeuwenhoek</i> , 2000 , 77, 31-6	2.1	17
9	Hyperproduction of polyesters consisting of medium-chain-length hydroxyalkanoate monomers by strain <i>Pseudomonas stutzeri</i> 1317. <i>Antonie Van Leeuwenhoek</i> , 2000 , 78, 43-9	2.1	13
8	Production of polyhydroxyalkanoates by <i>Pseudomonas nitroreducens</i> . <i>Antonie Van Leeuwenhoek</i> , 1999 , 75, 345-9	2.1	19
7	Production of novel polyhydroxyalkanoates by <i>Pseudomonas stutzeri</i> 1317 from glucose and soybean oil. <i>FEMS Microbiology Letters</i> , 1998 , 169, 45-49	2.9	70
6	Production of poly-b-hydroxybutyrate by <i>Azotobacter vinelandii</i> in a two-stage fermentation process. <i>Biotechnology Letters</i> , 1997 , 11, 347-350		44
5	Occurrence of poly-d(2?)-3-hydroxyalkanoates in the genus <i>Bacillus</i> . <i>FEMS Microbiology Letters</i> , 1991 , 84, 173-176	2.9	39
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3	Production of novel polyhydroxyalkanoates by <i>Pseudomonas stutzeri</i> 1317 from glucose and soybean oil		3
2	Distributed Biomanufacturing of Liquefied Petroleum Gas		1
1	Polyhydroxyalkanoates (PHAs): Separation, Purification and Manufacturing Methods1		0