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## Recent advances in microbial polyhydroxyalkanoates

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566	Perspectives in the modeling and optimization of PHB production by pure and mixed cultures. <b>2005</b> , 25, 153-71		54
565	Enhancement of PHB Biosynthesis by <i>Ralstonia Eutropha</i> in Fed-batch Cultures by Neural Filtering and Control1. <b>2006</b> , 84, 150-156		5
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560	Degradation of commercially important polyhydroxyalkanoates in tropical mangrove ecosystem. <b>2006</b> , 91, 2931-2940		78
559	Alcohol Adducts of N-Heterocyclic Carbenes: Latent Catalysts for the Thermally-Controlled Living Polymerization of Cyclic Esters. <b>2006</b> , 39, 5617-5628		133
558	Recent advances in polyhydroxyalkanoate production by mixed aerobic cultures: from the substrate to the final product. <b>2006</b> , 6, 885-906		212
557	New recombinant <i>Escherichia coli</i> strain tailored for the production of poly(3-hydroxybutyrate) from agroindustrial by-products. <b>2006</b> , 72, 3949-54		72
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555	ANALYSIS OF THE EFFECT OF FLOW INTERRUPTIONS ON FED-BATCH FERMENTATION FOR PHB PRODUCTION BY <i>RALSTONIA EUTROPHA</i> IN FINITELY DISPERSED BIOREACTORS. <b>2007</b> , 194, 603-617		2
554	THE BEHAVIOR OF RAT TOOTH GERM CELLS ON 3-HYDROXYL-BUTYRATE-CO-3-HYDROXY-HEXANOATE (PHBHHx) MEMBRANES. <b>2007</b> , 19, 279-288		
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551	"Intelligent" descriptions of microbial kinetics in finitely dispersed bioreactors: neural and cybernetic models for PHB biosynthesis by <i>Ralstonia eutropha</i> . <b>2007</b> , 6, 23		4
550	Organocatalytic ring-opening polymerization. <b>2007</b> , 107, 5813-40		1137

549	Bioengineering for pollution prevention through development of biobased energy and materials state of the science report. <b>2007</b> , 3, 218-259		11
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547	Thermal degradation and (nano)mechanical behavior of layered silicate reinforced poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nanocomposites. <b>2007</b> , 26, 652-659		79
546	Bacterial synthesis of biodegradable polyhydroxyalkanoates. <b>2007</b> , 102, 1437-49		502
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544	Influence of electron acceptor, carbon, nitrogen, and phosphorus on polyhydroxyalkanoate (PHA) production by <i>Brachymonas</i> sp. P12. <b>2007</b> , 23, 625-632		19
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540	Screening and isolation of PHB-producing bacteria in a polluted marine microbial mat. <b>2008</b> , 56, 112-20		49
539	Responses of <i>Azospirillum brasilense</i> to nitrogen deficiency and to wheat lectin: a diffuse reflectance infrared fourier transform (DRIFT) spectroscopic study. <b>2008</b> , 56, 615-24		29
538	Poly(3-hydroxybutyrate) synthesis from glycerol by a recombinant <i>Escherichia coli</i> <i>arcA</i> mutant in fed-batch microaerobic cultures. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 77, 1337-43	5-7	68
537	Biosynthesis and characterization of polyhydroxyalkanoates in the polysaccharide-degrading marine bacterium <i>Saccharophagus degradans</i> ATCC 43961. <b>2008</b> , 35, 629-33		28
536	Effective biosynthesis of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) with high 4-hydroxybutyrate fractions by <i>Wautersia eutropha</i> in the presence of amino acids. <b>2008</b> , 57, 149-157		10
535	Growth of keratinocytes on porous films of poly(3-hydroxybutyrate) and poly(4-hydroxybutyrate) blended with hyaluronic acid and chitosan. <b>2008</b> , 85, 1072-81		46
534	Guided growth of smooth muscle cell on poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) scaffolds with uniaxial microtubular structures. <b>2008</b> , 86, 849-56		10
533	Enhanced PHB production and scale up studies using cheese whey in fed batch culture of <i>Methylobacterium</i> sp. ZP24. <b>2008</b> , 99, 5749-55		99
532	Fed-batch cultivation of <i>Wautersia eutropha</i> . <b>2008</b> , 99, 1787-92		20

531	High poly( $\epsilon$ -hydroxybutyrate) production by <i>Pseudomonas fluorescens</i> A2a5 from inexpensive substrates. <b>2008</b> , 42, 167-72		66
530	A simple structured mathematical model for biopolymer (PHB) production. <b>2005</b> , 21, 830-8		48
529	<i>Rhodospirillum rubrum</i> : utilization of condensed corn solubles for poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) production. <b>2008</b> , 104, 1488-94		16
528	Compostable polymer materials [Definitions, structures and methods of preparation. <b>2008</b> , 10-36		7
527	Response coefficient analysis of a fed-batch bioreactor to dissolved oxygen perturbation in complementary cultures during PHB production. <b>2008</b> , 2, 4		5
526	Properties and applications. <b>2008</b> , 38-69		1
525	Preparation and evaluation of porous poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) hydroxyapatite composite scaffolds. <b>2008</b> , 22, 293-307		26
524	Neural and Hybrid Optimizations of the Fed-Batch Synthesis of Poly( $\epsilon$ -Hydroxybutyrate) by <i>Ralstonia eutropha</i> in a Nonideal Bioreactor. <b>2008</b> , 12, 117-130		5
523	Creation of High-Yield Polyhydroxyalkanoates Engineered Strains by Low Energy Ion Implantation. <b>2008</b> , 10, 769-774		
522	Fourier transform infrared spectroscopy of dental unit water line biofilm bacteria. <b>2009</b> , 23, 175-189		5
521	Physical properties and biocompatibility of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) blended with poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <b>2009</b> , 20, 1537-53		32
520	Influence of poly(3-hydroxybutyrate-co-4-hydroxybutyrate-co-3-hydroxyhexanoate) on growth and osteogenic differentiation of human bone marrow-derived mesenchymal stem cells. <b>2009</b> , 90, 894-905		40
519	Mechanical properties of poly( $\epsilon$ -caprolactone) and poly(lactic acid) blends. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 345-352	2.9	163
518	Effect of nucleation agents on the crystallization of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) (P3/4HB). <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 116, n/a-n/a	2.9	6
517	Multiobjective flux balancing using the NISE method for metabolic network analysis. <b>2009</b> , 25, 999-1008		25
516	Enhanced production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) copolymer with manipulated variables and its properties. <b>2009</b> , 36, 547-56		46
515	Cognitive optimization of microbial PHB production in an optimally dispersed bioreactor by single and mixed cultures. <b>2009</b> , 32, 557-68		2
514	Production of polyhydroxyalkanoates from whey by <i>Thermus thermophilus</i> HB8. <i>Process Biochemistry</i> , <b>2009</b> , 44, 847-853	4.8	73

513	A large-scale synthesis of enantiomerically pure $\beta$ -hydroxy-organochalcogenides. <b>2009</b> , 20, 2699-2703	3
512	Biocompatibility of poly(3-hydroxybutyrate-co-3-hydroxyvalerate-co-3-hydroxyhexanoate) with bone marrow mesenchymal stem cells. <b>2009</b> , 5, 1115-25	53
511	Poly(3-hydroxybutyrate-co-11 mass%3-hydroxyvaleate) molded part during the solidification step. <b>2009</b> , 95, 305-312	2
510	Isolation of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) producer from Malaysian environment using $\beta$ -butyrolactone as carbon source. <b>2009</b> , 25, 1199-1206	9
509	Determination of optimum operating conditions for production of polyhydroxybutyrate by activated sludge submitted to dynamic feeding regime. <b>2009</b> , 54, 142-149	10
508	Physico-chemical properties of polyhydroxyalkanoate produced by mixed-culture nitrogen-fixing bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 82, 545-55	5-7 35
507	Block poly(ester-urethane)s based on poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and poly(3-hydroxyhexanoate-co-3-hydroxyoctanoate). <b>2009</b> , 30, 2219-30	58
506	Production of PHAs from mixed and pure cultures of <i>Pseudomonas</i> sp. using short-chain fatty acids as carbon source under nitrogen limitation. <b>2009</b> , 248, 723-732	20
505	Exploitation of olive oil mill wastewater for combined biohydrogen and biopolymers production. <b>2009</b> , 100, 3724-30	136
504	Recovery of polyhydroxybutyrate (PHB) from <i>Cupriavidus necator</i> biomass by solvent extraction with 1,2-propylene carbonate. <b>2009</b> , 9, 454-461	86
503	Biodegradable Polyesters Derived from Amino Acids. <b>2009</b> , 42, 4520-4530	40
502	Poly(3-hydroxybutyrate) production from glycerol by <i>Zobellella denitrificans</i> MW1 via high-cell-density fed-batch fermentation and simplified solvent extraction. <b>2009</b> , 75, 6222-31	117
501	The Golden Bridge for Nature: The New Biology Applied to Bioplastics. <b>2009</b> , 49, 85-106	15
500	Bacterial Production of Poly(3-hydroxybutyrate). An Undergraduate Student Laboratory Experiment. <b>2009</b> , 86, 603	5
499	Medical application of microbial biopolyesters polyhydroxyalkanoates. <b>2009</b> , 37, 1-12	174
498	Changes in the mechanical properties of compression moulded samples of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degraded by <i>Streptomyces omiyaensis</i> SSM 5670. <b>2009</b> , 94, 267-271	8
497	Synthesis, characterization and cell compatibility of novel poly(ester urethane)s based on poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) prepared by melting polymerization. <b>2009</b> , 20, 1451-71	34
496	Microbial PHA Production from Waste Raw Materials. <b>2010</b> , 85-119	53

495	The complete genome sequence of <i>Cupriavidus metallidurans</i> strain CH34, a master survivalist in harsh and anthropogenic environments. <b>2010</b> , 5, e10433	208
494	Reaction engineering studies for the production of 2-hydroxyisobutyric acid with recombinant <i>Cupriavidus necator</i> H 16. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 88, 477-84	5-7 32
493	Biosynthesis and characterization of copolymer poly(3HB-co-3HV) from saponified <i>Jatropha curcas</i> oil by <i>Pseudomonas oleovorans</i> . <b>2010</b> , 37, 849-56	39
492	Extraction and characterization of PHB from <i>Acidiphilium cryptum</i> DX1-1. <b>2010</b> , 25, 938-943	6
491	Design Considerations in Hybrid Neural Optimization of Fed-Batch Fermentation for PHB Production by <i>Ralstonia eutropha</i> . <b>2010</b> , 3, 213-225	4
490	Functional expression of phaCAB genes from <i>Cupriavidus taiwanensis</i> strain 184 in <i>Escherichia coli</i> for polyhydroxybutyrate production. <b>2010</b> , 162, 2355-64	13
489	Identification and characterization of a new monoamine oxidase type C-like dehydratase from <i>Phytophthora capsici</i> involved in polyhydroxyalkanoates biosynthesis. <b>2010</b> , 32, 1719-23	1
488	Characterization of polyhydroxyalkanoate and the phaC gene of <i>Paracoccus seriniphilus</i> E71 strain isolated from a polluted marine microbial mat. <b>2010</b> , 26, 109-118	10
487	Production of polyhydroxyalkanoates: the future green materials of choice. <b>2010</b> , 85, 732-743	260
486	Production of poly-3-hydroxybutyrate by <i>Cupriavidus necator</i> from corn syrup: statistical modeling and optimization of biomass yield and volumetric productivity. <b>2010</b> , 85, n/a-n/a	3
485	Biosynthesis and biocompatibility of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) produced by <i>Cupriavidus necator</i> from spent palm oil. <b>2010</b> , 49, 13-20	63
484	Turning waste to wealth-biodegradable plastics polyhydroxyalkanoates from palm oil mill effluent [a Malaysian perspective]. <b>2010</b> , 18, 1393-1402	92
483	Influence of zinc oxide nanoparticles on the crystallization behavior of electrospun poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nanofibers. <b>2010</b> , 51, 2403-2409	72
482	Characterization of bionanocomposites based on medium chain length polyhydroxyalkanoates synthesized by <i>Pseudomonas oleovorans</i> . <b>2010</b> , 29, 966-971	23
481	In vitro blood compatibility of poly (hydroxybutyrate-co-hydroxyhexanoate) and the influence of surface modification by alkali treatment. <b>2010</b> , 30, 369-375	21
480	A combined metabolic/polymerization kinetic model on the microbial production of poly(3-hydroxybutyrate). <b>2010</b> , 27, 358-67	16
479	Mixed culture polyhydroxyalkanoates production from sugar molasses: the use of a 2-stage CSTR system for culture selection. <b>2010</b> , 101, 7123-33	96
478	Polyhydroxyalkanoates production by engineered <i>Cupriavidus necator</i> from waste material containing lactose. <b>2010</b> , 101, 7902-7	64

477	Production and characterization of a biodegradable poly (hydroxybutyrate-co-hydroxyvalerate) (PHB-co-PHV) copolymer by moderately haloalkalitolerant <i>Halomonas campisalis</i> MCM B-1027 isolated from Lonar Lake, India. <b>2010</b> , 101, 9765-71	78
476	Crystallization and preliminary X-ray analysis of the MaoC-like dehydratase from <i>Phytophthora capsici</i> . <b>2010</b> , 66, 272-4	5
475	<i>Zobellella denitrificans</i> strain MW1, a newly isolated bacterium suitable for poly(3-hydroxybutyrate) production from glycerol. <b>2010</b> , 108, 214-25	69
474	Relevance of microbial coculture fermentations in biotechnology. <b>2010</b> , 109, 371-387	180
473	Polyhydroxyalkanoate (PHA) production by a mixed microbial culture using sugar molasses: effect of the influent substrate concentration on culture selection. <b>2010</b> , 44, 3419-33	212
472	Anaerobic acidogenic digestion of olive mill wastewaters in biofilm reactors packed with ceramic filters or granular activated carbon. <b>2010</b> , 44, 4537-49	68
471	The effect of poly ̢hydroxybutyrate on larviculture of the giant freshwater prawn <i>Macrobrachium rosenbergii</i> . <b>2010</b> , 302, 76-81	81
470	. <b>2010</b> ,	2
469	Nanostructure Packaging Technologies. <b>2011</b> , 240-265	0
468	Isolation and recovery of microbial polyhydroxyalkanoates. <b>2011</b> , 5, 620-634	174
467	Biodegradable and biocompatible biomaterial, polyhydroxybutyrate, produced by an indigenous <i>Vibrio</i> sp. BM-1 isolated from marine environment. <b>2011</b> , 9, 615-24	26
466	Production of polyhydroxyalkanoates (PHAs) with canola oil as carbon source. <b>2011</b> , 48, 74-80	87
465	Deletion of <i>cscR</i> in <i>Escherichia coli</i> W improves growth and poly-3-hydroxybutyrate (PHB) production from sucrose in fed batch culture. <b>2011</b> , 156, 275-8	33
464	Bioprocess Design: Fermentation Strategies for Improving the Production of Alginate and Poly-̢Hydroxyalkanoates (PHAs) by <i>Azotobacter vinelandii</i> . <b>2011</b> ,	3
463	Polyhydroxybutyrate in <i>Rhizobium</i> and <i>Bradyrhizobium</i> : quantification and <i>phbC</i> gene expression. <b>2011</b> , 27, 773-778	13
462	Formation of new polyhydroxyalkanoate containing 3-hydroxy-4-methylvalerate monomer in <i>Burkholderia</i> sp. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 1599-609	5-7 25
461	Continuous production of poly([R]-3-hydroxybutyrate) by <i>Cupriavidus necator</i> in a multistage bioreactor cascade. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 295-304	5-7 83
460	Production of polyhydroxyalkanoates from waste frying oil by <i>Cupriavidus necator</i> . <b>2011</b> , 1, 11	120

459	Method for rapid control of bacterial PHA production through thermogravimetric analysis. <b>2011</b> , 86, 1195-1197		6
458	Biodegradable block poly(ester-urethane)s based on poly(3-hydroxybutyrate-co-4-hydroxybutyrate) copolymers. <b>2011</b> , 32, 3178-88		69
457	Design and analysis of poly-3-hydroxybutyrate production processes from crude glycerol. <i>Process Biochemistry</i> , <b>2011</b> , 46, 310-317	4.8	82
456	Polyhydroxyalkanoates (PHAs) for food packaging. <b>2011</b> , 498-526		22
455	Unexpected stress-reducing effect of PhaP, a poly(3-hydroxybutyrate) granule-associated protein, in <i>Escherichia coli</i> . <b>2011</b> , 77, 6622-9		37
454	Preparation and Properties of Bacterial Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) Fibers. <b>2011</b> , 335-336, 1477-1480		
453	Bioengineered natural textile fibres. <b>2012</b> , 291-313		
452	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) containing a predominant amount of 3-hydroxyvalerate by engineered <i>Escherichia coli</i> expressing propionate-CoA transferase. <b>2012</b> , 113, 815-23		37
451	Engineering <i>Escherichia coli</i> for production of CEC polyhydroxyalkanoate from glucose. <b>2012</b> , 14, 705-13		50
450	Biosynthesis and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) from <i>Bacillus cereus</i> FA11 isolated from TNT-contaminated soil. <b>2012</b> , 62, 1377-1384		26
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447	PHA/Clay Nano-Biocomposites. <i>Green Energy and Technology</i> , <b>2012</b> , 143-163	0.6	2
446	Mixed-culture polyhydroxyalkanoate production from olive oil mill pomace. <b>2012</b> , 120, 285-9		36
445	Preparation and characterization of bio-nanocomposites based on poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and CoAl layered double hydroxide using melt intercalation. <b>2012</b> , 43, 547-552		29
444	Use of enzymes in extraction of polyhydroxyalkanoates produced by <i>Cupriavidus necator</i> . <b>2012</b> , 28, 1575-80		27
443	Production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase from <i>Aspergillus</i> sp. NA-25. <b>2012</b> , 48, 482-487		8
442	Enhancement of poly(3-hydroxybutyrate) thermal and processing stability using a bio-waste derived additive. <b>2012</b> , 51, 1151-8		27



441	Intracellular polyhydroxyalkanoates recovery by cleaner halogen-free methods towards zero emission in the palm oil mill. <b>2012</b> , 37, 353-360		18
440	Comparing poly-3-hydroxybutyrate accumulation in <i>Azospirillum brasilense</i> strains Sp7 and Sp245: The effects of copper(II). <b>2012</b> , 61, 213-216		28
439	Thermal, mechanical and morphological characterization of plasticized PLA/PHB blends. <b>2012</b> , 97, 1822-1828		262
438	Thermal behaviour and thermodegradation kinetics of poly(vinyl chloride) plasticized with polymeric and oligomeric medium-chain-length poly(3-hydroxyalkanoates). <b>2012</b> , 97, 2118-2127		21
437	Metabolically engineered <i>Escherichia coli</i> as a tool for the production of bioenergy and biochemicals from glycerol. <b>2012</b> , 17, 671-678		19
436	Novel poly(hydroxyalkanoates)-based composites containing Bioglass <sup>®</sup> and calcium sulfate for bone tissue engineering. <b>2012</b> , 7, 054105		9
435	Improvement of thermal properties of biodegradable polymer poly(3-hydroxybutyrate) by modification with acryloyloxyethyl isocyanate. <b>2012</b> , 52, 1524-1531		6
434	Does the tissue engineering architecture of poly(3-hydroxybutyrate) scaffold affects cell-material interactions?. <b>2012</b> , 100, 1907-18		40
433	A comparative study on structure-property elucidation of P3/4HB and PEG-based block polyurethanes. <b>2012</b> , 100, 2319-29		5
432	Process optimization for efficient biomediated PHA production from animal-based waste streams. <b>2012</b> , 14, 495-503		54
431	Effect of zinc borate on the fire and thermal degradation behaviors of a poly(3-hydroxybutyrate-co-4-hydroxybutyrate)-containing intumescent flame retardant. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 3946-3955	2.9	9
430	Enhancing the 3-hydroxyvalerate component in bioplastic PHBV production by <i>Cupriavidus necator</i> . <b>2012</b> , 7, 304-9		25
429	Potential of Oil Palm Trunk Sap as a Novel Inexpensive Renewable Carbon Feedstock for Polyhydroxyalkanoate Biosynthesis and as a Bacterial Growth Medium. <b>2012</b> , 40, 310-317		19
428	Plant original <i>Massilia</i> isolates producing polyhydroxybutyrate, including one exhibiting high yields from glycerol. <b>2012</b> , 112, 443-54		15
427	A statistical data-processing methodology of PyGC/MS data for the simulation of flash co-pyrolysis reactor experiments. <b>2012</b> , 110, 123-128		3
426	Enzymatic degradation of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by commercial lipases. <b>2012</b> , 97, 597-604		24
425	Miscibility of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with high molecular weight poly(lactic acid) blends determined by thermal analysis. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 3074-3081	2.9	44
424	Industrial biotechnology of <i>Pseudomonas putida</i> and related species. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 2279-90	5.7	230

423	Examining the feasibility of bulk commodity production in <i>Escherichia coli</i> . <b>2012</b> , 34, 585-96		38
422	Synthesis, characterizations, and biocompatibility of block poly(ester-urethane)s based on biodegradable poly(3-hydroxybutyrate-co-4-hydroxybutyrate) (P3/4HB) and poly( $\epsilon$ -caprolactone). <b>2013</b> , 101, 75-86		17
421	High production of poly(3-hydroxybutyrate) from a wild <i>Bacillus megaterium</i> Bolivian strain. <b>2013</b> , 114, 1378-87		54
420	Novel approach for productivity enhancement of polyhydroxyalkanoates (PHA) production by <i>Cupriavidus necator</i> DSM 545. <b>2013</b> , 30, 192-5		22
419	Sustainable production of polyhydroxyalkanoates from renewable oil-palm biomass. <b>2013</b> , 50, 1-9		71
418	A review on production of poly( $\epsilon$ -hydroxybutyrate)s from cyanobacteria for the production of bio plastics. <b>2013</b> , 2, 278-285		119
417	Five-step continuous production of PHB analyzed by elementary flux, modes, yield space analysis and high structured metabolic model. <b>2013</b> , 79, 57-70		24
416	Use of NAD(P)H fluorescence measurement for on-line monitoring of metabolic state of <i>Azohydromonas australica</i> in poly(3-hydroxybutyrate) production. <b>2013</b> , 169, 821-31		7
415	Purification and characterization of two polyhydroxyalkanoates from <i>Bacillus cereus</i> . <b>2013</b> , 61, 82-8		8
414	Microbial production of poly(hydroxybutyrate) from C <sub>1</sub> carbon sources. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 1407-24	5-7	131
413	The chemomechanical properties of microbial polyhydroxyalkanoates. <b>2013</b> , 38, 536-583		269
412	Strategies for recovery and purification of poly[(R)-3-hydroxyalkanoates] (PHA) biopolyesters from surrounding biomass. <b>2013</b> , 13, 549-562		120
411	Crystallization behavior of poly(lactide)/poly( $\epsilon$ -hydroxybutyrate)/talc composites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 3355-3365	2.9	35
410	PLA/PHBV Films with Improved Mechanical and Gas Barrier Properties. <b>2013</b> , 298, 1065-1073		62
409	Polyhydroxyalkanoates from Palm Oil: Biodegradable Plastics. <b>2013</b> ,		12
408	Polyhydroxybutyrate production from oil palm empty fruit bunch using <i>Bacillus megaterium</i> R11. <b>2013</b> , 147, 307-314		64
407	Valorization of glycerol through the production of biopolymers: the PHB case using <i>Bacillus megaterium</i> . <b>2013</b> , 133, 38-44		77
406	Life cycle assessments of biodegradable, commercial biopolymers—A critical review. <b>2013</b> , 78, 54-66		244

405	Increasing polyhydroxyalkanoate (PHA) yields from <i>Cupriavidus necator</i> by using filtered digestate liquors. <b>2013</b> , 147, 345-352	38
404	Development of a structured dynamic model for the production of polyhydroxybutyrate (PHB) in <i>Azohydromonas lata</i> cultures. <b>2013</b> , 71, 72-80	23
403	Biodegradable latexes from animal-derived waste: Biosynthesis and characterization of mcl-PHA accumulated by <i>Ps. citronellolis</i> . <b>2013</b> , 73, 1391-1398	69
402	Assessing the mechanical, phase inversion, and rheological properties of poly-[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate] (PHBV) blended with poly-(l-lactic acid) (PLA). <i>European Polymer Journal</i> , <b>2013</b> , 49, 3681-3690	5.2 47
401	Polyhydroxyalkanoates: Basics, Production and Applications of Microbial Biopolyesters. <b>2013</b> , 137-170	10
400	Biopolymers for Health, Food, and Cosmetic Applications. <b>2013</b> , 801-849	30
399	Preparation, characterization and biodegradability of crosslinked tea plant-fibre-reinforced polyhydroxyalkanoate composites. <b>2013</b> , 98, 1473-1480	27
398	Microbial degradation of polyhydroxyalkanoates in tropical soils. <b>2013</b> , 83, 77-84	102
397	Compostable Polymer Materials. <b>2013</b> , 189-211	5
396	Mathematical modeling of poly[(R)-3-hydroxyalkanoate] synthesis by <i>Cupriavidus necator</i> DSM 545 on substrates stemming from biodiesel production. <b>2013</b> , 133, 482-94	48
395	Mathematical modelling and process optimization of a continuous 5-stage bioreactor cascade for production of poly[(R)-3-hydroxybutyrate] by <i>Cupriavidus necator</i> . <b>2013</b> , 36, 1235-50	26
394	Morphology-Crystallinity Relationship in PLA-PHBV Blends Prepared via Extrusion. <b>2013</b> , 554-557, 1707-1714	
393	Compostable Polymer Properties and Packaging Applications. <b>2013</b> , 217-248	15
392	Medical applications of biopolyesters polyhydroxyalkanoates. <b>2013</b> , 31, 719-736	39
391	Valorisation of Cheese Whey, a By-Product from the Dairy Industry. <b>2013</b> ,	56
390	Improved properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) produced by <i>Comamonas</i> sp. EB172 utilizing volatile fatty acids by regulating the nitrogen source. <b>2013</b> , 2013, 237806	9
389	Preparation and thermal properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/aluminum-containing layered double hydroxides nanocomposites. <b>2013</b> , 25, 104-112	2
388	Reactive mcl-PHA: A Sustainable Alternative for Innovative Hybrid Materials. <b>2013</b> , 298, 1004-1015	

387	Cyanobacterial polyhydroxyalkanoates: an alternative source for plastics. <b>2013</b> , 227-244		4
386	Bioconversion of restaurant waste into Polyhydroxybutyrate (PHB) by recombinant E. coli through anaerobic digestion. <b>2013</b> , 11, 27		9
385	- Treatment of Obesity and Diabetes with Marine-Derived Biomaterials. <b>2013</b> , 460-469		2
384	Methods for Separation, Recycling and Reuse of Biodegradation Products. <b>2013</b> ,		1
383	Optimization of bioplastic (poly--hydroxybutyrate) production by a promising Azomonas macrocytogenes bacterial isolate P173. <b>2013</b> , 7, 5025-5035		12
382	. <b>2013</b> ,		16
381	Structure reveals regulatory mechanisms of a MaoC-like hydratase from Phytophthora capsici involved in biosynthesis of polyhydroxyalkanoates (PHAs). <b>2013</b> , 8, e80024		6
380	Optimization of biodegradable plastic production on sugar cane molasses in Enterobacter sp. SEL2. <b>2014</b> , 45, 417-26		17
379	Biological effects of Spirulina (Arthrospira) biopolymers and biomass in the development of nanostructured scaffolds. <b>2014</b> , 2014, 762705		34
378	. <b>2014</b> ,		13
377	Nanocomposites of poly(3-hydroxybutyrate)/organomodified montmorillonite: Effect of the nanofiller on the polymer's biodegradation. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 132, n/a-n/a	2.9	1
376	Bioprospecting of culturable bacteria with potential polyhydroxyalkanoates (PHA) producer, isolated from contaminated sites of Manaus-AM/Brazil. <b>2014</b> , 8,		78
375	Whole genome amplification approach reveals novel polyhydroxyalkanoate synthases (PhaCs) from Japan Trench and Nankai Trough seawater. <b>2014</b> , 14, 318		17
374	Start a Research on Biopolymer Polyhydroxyalkanoate (PHA): A Review. <i>Polymers</i> , <b>2014</b> , 6, 706-754	4.5	260
373	Enhancement of growth and production of polyhydroxyalkanoates by Bacillus subtilis from agro-industrial waste as carbon substrates. <b>2014</b> , 21, 111-119		14
372	Biotechnological strategies to improve production of microbial poly-(3-hydroxybutyrate): a review of recent research work. <b>2014</b> , 7, 278-93		89
371	The chemomechanical properties of microbial polyhydroxyalkanoates. <b>2014</b> , 39, 397-442		135
370	Recovery of amorphous polyhydroxybutyrate granules from Cupriavidus necator cells grown on used cooking oil. <b>2014</b> , 71, 117-23		53

369	Biosynthesis of poly- $\epsilon$ -hydroxybutyrate (PHB) with a high molecular mass by a mutant strain of <i>Azotobacter vinelandii</i> (OPN). <b>2014</b> , 64, 39-47		28
368	Production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) co-polymer by the diazotrophic cyanobacterium <i>Aulosira fertilissima</i> CCC 444. <b>2014</b> , 26, 237-245		30
367	An Open Pond System for Microalgal Cultivation. <b>2014</b> , 1-22		10
366	Medium chain length polyhydroxyalkanoate (mcl-PHA) production from volatile fatty acids derived from the anaerobic digestion of grass. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 611-20	5-7	51
365	Optimization of Carbon Dioxide and Valeric Acid Utilization for Polyhydroxyalkanoates Synthesis by <i>Cupriavidus necator</i> . <b>2014</b> , 22, 244-251		13
364	Polyhydroxybutyrate accumulation by a cadmium-resistant strain of <i>Cupriavidus taiwanensis</i> . <b>2014</b> , 45, 1164-1169		8
363	Algae Biomass Based Media for Poly(3-hydroxybutyrate) (PHB) Production by <i>Escherichia coli</i> . <b>2014</b> , 22, 272-277		17
362	Current trends in polyhydroxyalkanoates (PHAs) biosynthesis: insights from the recombinant <i>Escherichia coli</i> . <b>2014</b> , 180, 52-65		94
361	Production of filmable medium-chain-length polyhydroxyalkanoates produced from glycerol by <i>Pseudomonas mediterranea</i> . <b>2014</b> , 65, 89-96		35
360	Biosynthesis of poly(3-hydroxybutyrate) (PHB) by <i>Cupriavidus necator</i> H16 from jatropha oil as carbon source. <b>2014</b> , 37, 943-51		24
359	Production of green biodegradable plastics of poly(3-hydroxybutyrate) from renewable resources of agricultural residues. <b>2014</b> , 37, 1561-8		18
358	Exploring the potential of <i>Burkholderia sacchari</i> to produce polyhydroxyalkanoates. <b>2014</b> , 116, 815-29		31
357	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (P(HB-co-HHx)) from butyrate using engineered <i>Ralstonia eutropha</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 5461-9	5-7	60
356	Poly- $\epsilon$ -hydroxyalkanoates production from cassava starch hydrolysate by <i>Cupriavidus</i> sp. KKU38. <b>2014</b> , 65, 51-64		52
355	Application of Nano- and Microencapsulated Materials to Food Packaging. <b>2014</b> , 301-323		3
354	Production of PHA from Cassava Starch Wastewater in Sequencing Batch Reactor Treatment System. <b>2014</b> , 8, 167-172		18
353	A laboratory case study of efficient polyhydroxyalkonates production by <i>Bacillus cereus</i> , a contaminant in <i>Saccharophagus degradans</i> ATCC 43961 in minimal sea salt media. <b>2014</b> , 69, 832-8		13
352	One-pot production of hydrocarbon oil from poly(3-hydroxybutyrate). <b>2014</b> , 4, 14320-14327		11

351	Novel blend microspheres of poly(3-hydroxybutyrate) and Pluronic F68/127 for controlled release of 6-mercaptopurine. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	5
350	Novel bio-based composites of polyhydroxyalkanoate (PHA)/distillers dried grains with solubles (DDGS). <b>2014</b> , 4, 39802-39808		19
349	Use of residual banana for polyhydroxybutyrate (PHB) production: case of study in an integrated biorefinery. <b>2014</b> , 34, 2634-40		41
348	Stabilization of antimicrobial silver nanoparticles by a polyhydroxyalkanoate obtained from mixed bacterial culture. <b>2014</b> , 71, 103-10		41
347	Polyhydroxyalkanoates (PHA)-Cellulose Based Nanobiocomposites for Food Packaging Applications. <b>2014</b> , 275-314		41
346	Crystallization and thermal properties of biodegradable polyurethanes based on poly[(R)-3-hydroxybutyrate] and their composites with chitin whiskers. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	14
345	Bacterial production of the biodegradable plastics polyhydroxyalkanoates. <b>2014</b> , 70, 208-13		109
344	Poly-Hydroxybutyrate production and management of cardboard industry effluent by new <i>Bacillus</i> sp. NA10. <b>2014</b> , 1,		20
343	Nanostructured interlayers of zein to improve the barrier properties of high barrier polyhydroxyalkanoates and other polyesters. <b>2014</b> , 127, 1-9		67
342	Natural Polymers and Additives in Commodity and Specialty Applications: A Challenge for the Chemistry of Future. <b>2014</b> , 337, 124-133		30
341	Photosynthetic mixed culture polyhydroxyalkanoate (PHA) production from individual and mixed volatile fatty acids (VFAs): substrate preferences and co-substrate uptake. <b>2014</b> , 185, 19-27		81
340	- AN INSIGHT INTO HORIZONTAL GENE TRANSFER TRIGGERING WIDESPREAD ANTIMICROBIAL RESISTANCE IN BACTERIA. <b>2014</b> , 202-221		1
339	Investigation of miscibility of p(3hydroxybutyrate-co-3hydroxyhexanoate) and epoxidized natural rubber blends. <b>2015</b> ,		
338	Thermophysical properties of bacterial poly(3-hydroxybutyrate): Characterized by TMA, DSC, and TMDSC. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	10
337	Molecular Characterization of a Poly-&beta;-Hydroxybutyrate-Producing Microbacterium Isolate. <b>2015</b> , 3, 143-150		4
336	Polyhydroxybutyrate production by <i>Spirulina</i> sp. LEB 18 grown under different nutrient concentrations. <b>2015</b> , 9, 1586-1594		25
335	Production of Polyhydroxybutyrate by <i>Bacillus axaraqunsis</i> BIPC01 using Petrochemical Wastewater as Carbon Source. <b>2015</b> , 58, 643-650		14
334	Biofunctionalized nanofibers using <i>Arthrospira</i> ( <i>Spirulina</i> ) biomass and biopolymer. <b>2015</b> , 2015, 967814		15

333	Photo-autotrophic Production of Poly(hydroxyalkanoates) in Cyanobacteria. <b>2015</b> , 29, 145-156		69
332	Bioprospects of Coastal Eubacteria. <b>2015</b> ,		1
331	Bacterial polyhydroxyalkanoates-eco-friendly next generation plastic: Production, biocompatibility, biodegradation, physical properties and applications. <b>2015</b> , 8, 56-77		174
330	Approaches for the Synthesis of Tailor-Made Polyhydroxyalkanoates. <b>2015</b> , 11-28		2
329	Biodegradable Polymers: Renewable Nature, Life Cycle, and Applications. <b>2015</b> , 29-56		1
328	Thermo-mechanical properties, microstructure and biocompatibility in poly- $\beta$ -hydroxybutyrates (PHB) produced by OP and OPN strains of <i>Azotobacter vinelandii</i> . <i>European Polymer Journal</i> , <b>2015</b> , 63, 101-112	5.2	48
327	Polyhydroxybutyrate production using a wastewater microalgae based media. <b>2015</b> , 8, 95-98		37
326	Bacterial Synthesis of Polyhydroxyalkanoates Using Renewable Resources. <b>2015</b> , 163-177		
325	Efficient P(3HB) extraction from <i>Burkholderia sacchari</i> cells using non-chlorinated solvents. <b>2015</b> , 103, 39-46		23
324	Rapid and qualitative fluorescence-based method for the assessment of PHA production in marine bacteria during batch culture. <b>2015</b> , 31, 1555-63		21
323	A review of the recent developments in biocomposites based on natural fibres and their application perspectives. <b>2015</b> , 77, 1-25		672
322	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by <i>Halogeometricum borinquense</i> strain E3. <b>2015</b> , 78, 339-46		33
321	Polyhydroxyalkanoates: Microbial Synthesis and Applications. <b>2015</b> , 6391-6411		3
320	Sustainable autotrophic production of polyhydroxybutyrate (PHB) from CO <sub>2</sub> using a two-stage cultivation system. <b>2015</b> , 257, 237-245		44
319	Influence of amorphous alkaline lignin on the crystallization behavior and thermal properties of bacterial polyester. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	6
318	Challenges and Opportunities for Customizing Polyhydroxyalkanoates. <b>2015</b> , 55, 235-49		101
317	A higher in value biopolymer product of polyhydroxyalkanoates (PHAs) synthesized by <i>Alcaligenes latus</i> in batch/repeated batch fermentation processes of sugar cane juice. <b>2015</b> , 65, 2081-2089		7
316	Aerobic methylobacteria as promising objects of modern biotechnology (Review). <b>2015</b> , 51, 125-134		12



315	Biosynthesis of planet friendly bioplastics using renewable carbon source. <b>2015</b> , 13, 11	41
314	Basics of Construction Microbial Biotechnology. <b>2015</b> , 21-56	24
313	Polyhydroxyalkanoates, a family of natural polymers, and their applications in drug delivery. <b>2015</b> , 90, 1209-1221	94
312	In situ immobilized lipase on the surface of intracellular polyhydroxybutyrate granules: preparation, characterization, and its promising use for the synthesis of fatty acid alkyl esters. <b>2015</b> , 177, 1553-64	7
311	Influence of Feeding and Controlled Dissolved Oxygen Level on the Production of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) Copolymer by <i>Cupriavidus</i> sp. USMAA2-4 and Its Characterization. <b>2015</b> , 176, 1315-34	14
310	Quick discrimination of heavy metal resistant bacterial populations using infrared spectroscopy coupled with chemometrics. <b>2015</b> , 87, 9653-61	24
309	Biocompatible polyhydroxybutyrate (PHB) production by marine <i>Vibrio azureus</i> BTKB33 under submerged fermentation. <b>2015</b> , 65, 455-465	20
308	Microbial fixation of CO <sub>2</sub> in water bodies and in drylands to combat climate change, soil loss and desertification. <b>2015</b> , 32, 109-20	40
307	Enzymatic surface treatment of poly (3-hydroxybutyrate) (PHB), and poly (3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV). <b>2015</b> , 90, 2036-2039	3
306	From organic pollutants to bioplastics: insights into the bioremediation of aromatic compounds by <i>Cupriavidus necator</i> . <b>2015</b> , 32, 47-53	32
305	Plant oils as promising substrates for polyhydroxyalkanoates production. <b>2015</b> , 106, 408-421	66
304	UTILIZATION OF CO <sub>2</sub> IN SEMI-CONTINUOUS CULTIVATION OF <i>Spirulina</i> sp. AND <i>Chlorella fusca</i> AND EVALUATION OF BIOMASS COMPOSITION. <b>2016</b> , 33, 691-698	16
303	Polyhydroxyalkanoate (PHA) production by <i>Lysinibacillus</i> sp. strain UEA-20.171. <b>2016</b> , 15, 1827-1834	0
302	The Synthesis of Hydroxybutyrate-Based Block Polyurethane from Telechelic Diols with Robust Thermal and Mechanical Properties. <b>2016</b> , 2016, 1-10	4
301	Biotechnological production of biopolymers and admixtures for eco-efficient construction materials. <b>2016</b> , 37-56	4
300	Microbubble assisted polyhydroxybutyrate production in <i>Escherichia coli</i> . <b>2016</b> , 9, 338	17
299	A Review on Grafting of Biofibers for Biocomposites. <b>2016</b> , 9,	90
298	Basic concepts on biopolymers and biotechnological admixtures for eco-efficient construction materials. <b>2016</b> , 13-35	5



297	Composite scaffolds for cartilage tissue engineering based on natural polymers of bacterial origin, thermoplastic poly(3-hydroxybutyrate) and micro-fibrillated bacterial cellulose. <b>2016</b> , 65, 780-791	32
296	Characterization of polyhydroxyalkanoate blends incorporating unpurified biosustainably produced poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9 13
295	Value-Added Products from Sludge. <b>2016</b> , 255-296	2
294	Biodegradation Study of Polyethylene-based Biocomposites and Bionanocomposites. <b>2016</b> , 345-364	
293	Plant Responses to Xenobiotics. <b>2016</b> ,	8
292	Biodegradable Polyhydroxyalkanoate Thermoplastics Substituting Xenobiotic Plastics: A Way Forward for Sustainable Environment. <b>2016</b> , 317-346	7
291	Protein Complex Production in Alternative Prokaryotic Hosts. <b>2016</b> , 896, 115-33	3
290	Enzymatic degradation of polyhydroxyalkanoate using lipase from <i>Bacillus subtilis</i> . <b>2016</b> , 13, 1541-1552	18
289	Production of poly-3-hydroxybutyrate (P3HB) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) P(3HB-co-3HV) from synthetic wastewater using <i>Hydrogenophaga palleronii</i> . <b>2016</b> , 215, 155-162	27
288	Biodegradable poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/thermoplastic polyurethane blends with improved mechanical and barrier performance. <b>2016</b> , 132, 52-61	22
287	Microbial production of polyhydroxyalkanoates (PHAs) and its copolymers: A review of recent advancements. <b>2016</b> , 89, 161-74	331
286	Fabrication of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) biocomposites with reinforcement by hydroxyapatite using extrusion processing. <b>2016</b> , 65, 19-26	27
285	Synthesis and characterization of biodegradable copoly(ether-ester-urethane)s and their chitin whisker nanocomposites. <b>2016</b> , 125, 163-173	14
284	Global changes in the proteome of <i>Cupriavidus necator</i> H16 during poly-(3-hydroxybutyrate) synthesis from various biodiesel by-product substrates. <b>2016</b> , 6, 36	23
283	Polyhydroxyalkanoates: The Application of Eco-Friendly Materials. <b>2016</b> , 25-54	1
282	Polyhydroxyalkanoates: Production and Use. <b>2016</b> , 6412-6421	3
281	<i>Pseudomonas</i> : Molecular and Applied Biology. <b>2016</b> ,	15
280	<i>Pseudomonas</i> for Industrial Biotechnology. <b>2016</b> , 281-342	3

279	Microbial biopolymer production by Microbacterium WA81 in batch fermentation. <b>2016</b> , 3, 250-262	9
278	Maximizing the accumulation of Poly-β-hydroxybutyrate (PHB) in low-carbon urban sewage. <b>2016</b> , 57, 25927-25938	3
277	Regulation of Polyhydroxybutyrate Synthesis in the Soil Bacterium Bradyrhizobium diazoefficiens. <b>2016</b> , 82, 4299-4308	34
276	Effects of even and odd number fatty acids cofeeding on PHA production and composition in Pseudomonas putida Bet001 isolated from palm oil mill effluent. <b>2016</b> , 63, 92-100	4
275	PHB nanostructured: Production and characterization by NMR relaxometry. <b>2016</b> , 49, 57-65	6
274	Lignocellulosic and marine biomass as resource for production of polyhydroxyalkanoates. <b>2016</b> , 33, 1505-1513	18
273	Biorefinery-Derived Bioplastics as Promising Low-Embodied Energy Building Materials. <b>2016</b> , 375-389	3
272	Determination of monomeric composition in polyhydroxyalkanoates by liquid chromatography coupled with on-line mass spectrometry and off-line nuclear magnetic resonance. <b>2016</b> , 146, 107-13	3
271	Improvement of the poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) production by dual feeding with levulinic acid and sodium propionate in Cupriavidus necator. <b>2016</b> , 33, 231-6	11
270	Production of Polyhydroxyalkanoates (PHAs) by Bacillus Strain Isolated from Waste Water and Its Biochemical Characterization. <b>2017</b> , 87, 459-466	24
269	Conversion of rice husks to polyhydroxyalkanoates (PHA) via a three-step process: optimized alkaline pretreatment, enzymatic hydrolysis, and biosynthesis by Burkholderia cepacia USM (JCM 15050). <b>2017</b> , 92, 100-108	48
268	Poly (3-hydroxybutyrate-co-15 mol% 3hydroxyhexanoate)/ZnO nanocomposites by solvent casting method: a study of optical, surface, and thermal properties. <b>2017</b> , 4, 015301	4
267	Impact of ZnO Nanoparticles on Dielectric and Optical Properties of Poly (3-hydroxybutyrate) for Electronics Applications. <b>2017</b> , 56, 1495-1504	7
266	Application of acetyl-CoA acetyltransferase (AtoAD) in Escherichia coli to increase 3-hydroxyvalerate fraction in poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <b>2017</b> , 40, 781-789	26
265	Polyhydroxyalkanoates: Sustainability, Production, and Industrialization. <b>2017</b> , 11-33	9
264	Developing a green and sustainable process for enhanced PHB production by Azohydromonas australica. <b>2017</b> , 10, 122-129	11
263	Microbial Applications Vol.2. <b>2017</b> ,	4
262	Bioproduction of Polyhydroxyalkanoate from Plant Oils. <b>2017</b> , 231-260	4

261	Studies on Non-Isothermal Crystallisation and Viscoelastic Properties of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) and Epoxidized Natural Rubber Blends. <b>2017</b> , 371, 107-113	
260	Microalgae as a Source of Bioplastics. <b>2017</b> , 121-138	33
259	Effect of nitrogen availability on the poly-3-D-hydroxybutyrate accumulation by engineered <i>Saccharomyces cerevisiae</i> . <b>2017</b> , 7, 35	10
258	Valorization of Lignocellulosic Materials to Polyhydroxyalkanoates (PHAs). <b>2017</b> , 1-25	0
257	Assessing the influence of the carbon source on the abatement of industrial NO emissions coupled with the synthesis of added-value bioproducts. <b>2017</b> , 598, 765-771	3
256	Characterization of Polyhydroxyalkanoate Produced by <i>Bacillus megaterium</i> VB89 Isolated from Nisargruna Biogas Plant. <b>2017</b> , 183, 241-253	17
255	Microbial production, ultrasound-assisted extraction and characterization of biopolymer polyhydroxybutyrate (PHB) from terrestrial ( <i>P. hysterophorus</i> ) and aquatic ( <i>E. crassipes</i> ) invasive weeds. <b>2017</b> , 242, 304-310	51
254	Biopolymer-based functional composites for medical applications. <b>2017</b> , 68, 77-105	207
253	and biopolymer: Prospects and challenges. <b>2017</b> , 12, 206-213	63
252	Valorisation of CO <sub>2</sub> -rich off-gases to biopolymers through biotechnological process. <b>2017</b> , 364,	13
251	Biodegradation of P(3HB-4HB) powder by for preparation low-molecular-mass P(3HB-4HB). <b>2017</b> , 7, 281	3
250	Production of a novel medium chain length poly(3-hydroxyalkanoate) using unprocessed biodiesel waste and its evaluation as a tissue engineering scaffold. <b>2017</b> , 10, 1384-1399	25
249	Improved fed-batch production of high-purity PHB (poly-3 hydroxy butyrate) by (MTCC 1472) from sucrose-based cheap substrates under response surface-optimized conditions. <b>2017</b> , 7, 310	5
248	Investigation of the 3-hydroxyvalerate content and degree of crystallinity of P3HB-co-3HV cast films using Raman spectroscopy. <b>2017</b> , 133, 160-170	8
247	Bacterial Polyhydroxyalkanoates: Recent Trends in Production and Applications. <b>2017</b> , 19-53	15
246	Designing Biodegradable PHA-Based 3D Scaffolds with Antibiofilm Properties for Wound Dressings: Optimization of the Microstructure/Nanostructure. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 3654-3661	5.5 18
245	Model-based intensification of a fed-batch microbial process for the maximization of polyhydroxybutyrate (PHB) production rate. <b>2017</b> , 40, 1247-1260	12
244	Assessing the thermoformability of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(acid lactic) blends compatibilized with diisocyanates. <b>2017</b> , 62, 235-245	18

243	Valorization of waste glycerol for the production of poly (3-hydroxybutyrate) and poly (3-hydroxybutyrate-co-3-hydroxyvalerate) copolymer by <i>Cupriavidus necator</i> and extraction in a sustainable manner. <b>2017</b> , 243, 492-501		51
242	Polyhydroxyalkanoates as biomaterials. <b>2017</b> , 8, 1774-1787		34
241	Bioconversion of glycerol to poly(HB-co-HV) copolymer in an inexpensive medium by a <i>Bacillus megaterium</i> strain isolated from marine sediments. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 1-9	6.8	25
240	Construction Biotechnology. <i>Green Energy and Technology</i> , <b>2017</b> ,	0.6	12
239	Screening and Evaluation of Poly(3-hydroxybutyrate) with <i>Rhodococcus equi</i> Using Different Carbon Sources. <b>2017</b> , 42, 2371-2379		17
238	Structural Analysis of ZnO Nanoparticles Reinforced P(3HB-co-15 mol% 3HHx) Bioplastic Composite. <b>2017</b> , 25, 1251-1261		4
237	The heterogeneous selective reduction of PHB as a useful method for preparation of oligodiols and surface modification. <b>2017</b> , 7, 35096-35104		3
236	Bioplastics Biotechnology. <b>2017</b> , 551-567		
235	Poly(3-hydroxybutyrate)-P(3HB): Review of Production Process Technology. <b>2017</b> , 13, 192-208		21
234	Natural bacterial biodegradable medical polymers. <b>2017</b> , 257-277		6
233	Polyhydroxyalkanoates in the Food Packaging Industry. <b>2017</b> , 153-177		11
232	Molecular Diagnostic for Prospecting Polyhydroxyalkanoate-Producing Bacteria. <i>Bioengineering</i> , <b>2017</b> , 4,	5.3	6
231	A simple and efficient method for poly-3-hydroxybutyrate quantification in diazotrophic bacteria within 5 minutes using flow cytometry. <b>2017</b> , 50, e5492		14
230	Complete factorial design to adjust pH and sugar concentrations in the inoculum phase of <i>Ralstonia solanacearum</i> to optimize P(3HB) production. <b>2017</b> , 12, e0180563		5
229	Photosynthetic poly-3-hydroxybutyrate accumulation in unicellular cyanobacterium <i>Synechocystis</i> sp. PCC 6714. <b>2017</b> , 7, 143		46
228	Recuperaçã e reutilizaçã do carbonato de propileno empregado no processo de extraçã de poli(3-hidroxibutirato). <b>2017</b> , 27, 20-26		
227	Produçã de poli(3-hidroxibutirato) por <i>Cupriavidus necator</i> em batelada alimentada usando glicerol. <b>2017</b> , 27, 110-115		2
226	A New Method for the Production of Polyhydroxyalkanoates by <i>Bacillus</i> sp. and Detect the Presence of PHA Synthase. <b>2018</b> , 6, 105-116		1

225	Potential of Borneo Acacia wood in fully biodegradable bio-composites for commercial production and application. <b>2018</b> , 75, 5333-5354	16
224	A non-naturally-occurring P(3HB-co-3HA) is produced by recombinant <i>Pseudomonas</i> sp. from an unrelated carbon source. <b>2018</b> , 114, 512-519	4
223	Mixed culture polyhydroxyalkanoate (PHA) synthesis from nutrient rich wet oxidation liquors. <b>2018</b> , 140, 1-11	35
222	Synthesis of scl-poly (3-hydroxyalkanoates) by <i>Bacillus cereus</i> found in freshwater, from monosaccharides and disaccharides. <b>2018</b> , 13, 63-69	1
221	Polyhydroxybutyrate production from marine source and its application. <b>2018</b> , 111, 102-108	36
220	Polyhydroxyalkanoates (PHA) production from phenol in an acclimated consortium: Batch study and impacts of operational conditions. <b>2018</b> , 267, 36-44	14
219	Improved intracellular PHA determinations with novel spectrophotometric quantification methodologies based on Sudan black dye. <b>2018</b> , 148, 1-11	4
218	Perspectives on the production, structural characteristics and potential applications of bioplastics derived from polyhydroxyalkanoates. <b>2018</b> , 107, 615-625	84
217	Fed-Batch Strategies for Production of PHA Using a Native Isolate of <i>Halomonas venusta</i> KT832796 Strain. <b>2018</b> , 184, 935-952	19
216	Value added products from fermentation of sugars derived from agro-food residues. <b>2018</b> , 71, 52-64	42
215	Design of bio-based conductive and fast crystallizing nanocomposites with controllable distribution of multiwalled carbon nanotubes via interfacial stereocomplexation. <b>2018</b> , 336, 223-232	14
214	Biosynthesis of silver nanoparticles and polyhydroxybutyrate nanocomposites of interest in antimicrobial applications. <b>2018</b> , 108, 426-435	48
213	Enhanced production of poly(3-hydroxybutyrate) in recombinant <i>Escherichia coli</i> and EDTA-microwave-assisted cell lysis for polymer recovery. <b>2018</b> , 8, 142	31
212	Bioreactor Operating Strategies for Improved Polyhydroxyalkanoate (PHA) Productivity. <i>Polymers</i> , <b>2018</b> , 10,	4-5 37
211	Surfactant Free Delivery of Docetaxel by Poly[(R)-3-hydroxybutyrate-(R)-3-hydroxyhexanoate]-Based Polymeric Micelles for Effective Melanoma Treatments. <b>2018</b> , 7, e1801221	27
210	The Next Generation of Sustainable Food Packaging to Preserve Our Environment in a Circular Economy Context. <b>2018</b> , 5, 121	135
209	Low Carbon Concentration Feeding Improves Medium-Chain-Length Polyhydroxyalkanoate Production in Strains With Defective $\beta$ Oxidation. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 178	5.8 11
208	Improving PHA production in a SBR of coupling PHA-storing microorganism enrichment and PHA accumulation by feed-on-demand control. <b>2018</b> , 8, 97	8

207	Production of Polyhydroxyalkanoates From Underutilized Plant Oils by <i>Cupriavidus necator</i> . <b>2018</b> , 46, 1700542	10
206	Processing of Polymer-based Nanocomposites. <b>2018</b> ,	1
205	Synthesis and Application of Water-Soluble Oxazine Dyes for Detection of PHAs-Producing Bacteria. <b>2018</b> , 28, 1347-1355	1
204	Effect of Selected Commercial Plasticizers on Mechanical, Thermal, and Morphological Properties of Poly(3-hydroxybutyrate)/Poly(lactic acid)/Plasticizer Biodegradable Blends for Three-Dimensional (3D) Print. <b>2018</b> , 11,	37
203	MALDI-Biotyper as a tool to identify polymer producer bacteria. <b>2018</b> , 153, 127-132	5
202	Isolation of lignin from Ammonia Fiber Expansion (AFEX) pretreated biorefinery waste. <b>2018</b> , 119, 446-455	11
201	Blends of ethylene-co-vinyl acetate and poly(3-hydroxybutyrate) with adhesion property. <b>2018</b> , 12, 600-615	3
200	Determination of geometrical and viscoelastic properties of PLA/PHB samples made by additive manufacturing for urethral substitution. <b>2018</b> , 284, 123-130	26
199	Processing of Sustainable Polymer Nanocomposites. <b>2018</b> , 139-165	
198	Gas chromatography-mass spectrometry-based monomer composition analysis of medium-chain-length polyhydroxyalkanoates biosynthesized by <i>Pseudomonas</i> spp. <b>2018</b> , 82, 1615-1623	7
197	Medical grade biodegradable polymers: A perspective from gram-positive bacteria. <b>2018</b> , 267-286	3
196	Multi-production of high added market value metabolites from diluted methane emissions via methanotrophic extremophiles. <b>2018</b> , 267, 401-407	24
195	Interface influence of materials and surface modifications. <b>2018</b> , 371-409	4
194	Biomass-Derived Polyhydroxyalkanoates: Biomedical Applications. <b>2018</b> , 271-313	8
193	Poly(hydroxyalkanoate)s-Based Hydrophobic Coatings for the Protection of Stone in Cultural Heritage. <b>2018</b> , 11,	31
192	Poly(3-Hydroxybutyrate--3-Hydroxyvalerate): Enhancement Strategies for Advanced Applications. <i>Polymers</i> , <b>2018</b> , 10,	4.5 132
191	Polyhydroxyalkanoates. <b>2018</b> , 1-26	
190	Production of Polyhydroxyalkanoates from Renewable Sources Using Bacteria. <b>2018</b> , 26, 3995-4012	18

189	The Influence of Additives on the Interfacial Bonding Mechanisms Between Natural Fibre and Biopolymer Composites. <b>2018</b> , 26, 851-863	20
188	Lignocellulosic Materials and Their Use in Bio-based Packaging. <i>Springer Briefs in Molecular Science</i> , <b>2018</b> ,	0.6 8
187	Use of Lignocellulosic Materials in Bio-based Packaging. <i>Springer Briefs in Molecular Science</i> , <b>2018</b> , 65-85	0.6 4
186	Statistical optimization studies for polyhydroxybutyrate (PHB) production by novel <i>Bacillus subtilis</i> using agricultural and industrial wastes. <b>2019</b> , 16, 3497-3512	36
185	Production and Physiochemical Characterization of Poly(3-hydroxybutyrate) Bioplastic by Brazilian Bacterium <i>Ralstonia solanacearum</i> Under Different Production Media and Saline Stress Conditions. <b>2019</b> , 15, 248-255	
184	A glimpse of biodegradable polymers and their biomedical applications. <b>2019</b> , 19, 385-410	40
183	Extrusion Coating of Paper with Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) Packaging Related Functional Properties. <b>2019</b> , 9, 457	8
182	Green Composite Materials from Biopolymers Reinforced with Agroforestry Waste. <b>2019</b> , 27, 2651-2673	24
181	Polyhydroxyalkanoates in Packaging. <b>2019</b> , 363-388	5
180	Approaches for Enhancing Extraction of Bacterial Polyhydroxyalkanoates for Industrial Applications. <b>2019</b> , 389-408	3
179	Biotechnological Applications of Polyhydroxyalkanoates. <b>2019</b> ,	15
178	Memory Enhancers. <b>2019</b> , 171-205	
177	Production of polyhydroxybutyrate from oil palm empty fruit bunch (OPEFB) hydrolysates by <i>Bacillus cereus</i> suaeda B-001. <b>2019</b> , 18, 101019	12
176	<i>Aegle marmelos</i> : A novel low cost substrate for the synthesis of polyhydroxyalkanoate by <i>Bacillus aerophilus</i> RSL- 7. <b>2019</b> , 18, 101021	8
175	In silico prospection of microorganisms to produce polyhydroxyalkanoate from whey: <i>Caulobacter segnis</i> DSM 29236 as a suitable industrial strain. <b>2019</b> , 12, 487-501	14
174	Optimization of polyhydroxybutyrate production by experimental design of combined ternary mixture (glucose, xylose and arabinose) and process variables (sugar concentration, molar C:N ratio). <b>2019</b> , 42, 1495-1506	8
173	Compostable polymer materials [Definitions, structures and methods of preparation. <b>2019</b> , 11-48	2
172	Properties and applications. <b>2019</b> , 49-98	6

171	Microbial Polyhydroxyalkanoates: Current Status and Future Prospects. <b>2019</b> , 351-387	2
170	Methods of synthesis, properties and biomedical applications of polyhydroxyalkanoates: a review. <b>2019</b> , 30, 695-712	55
169	Thermal degradation behavior of bacterial poly(3-hydroxybutyrate-co-3-mercaptopropionate). <b>2019</b> , 165, 35-42	4
168	Production of bioplastic through food waste valorization. <b>2019</b> , 127, 625-644	200
167	Polyhydroxybutyrate. <b>2019</b> , 405-444	1
166	Microalgae as source of polyhydroxyalkanoates (PHAs) - A review. <b>2019</b> , 131, 536-547	80
165	Economic analysis of polyhydroxybutyrate production by <i>Cupriavidus necator</i> using different routes for product recovery. <b>2019</b> , 146, 97-104	29
164	Long term stability of biodegradable polymers on building limestone. <b>2019</b> , 131, 378-388	10
163	<i>Pseudomonas</i> Species as Producers of Eco-friendly Polyhydroxyalkanoates. <b>2019</b> , 27, 1151-1166	46
162	Enhanced production of poly-3-hydroxybutyrate (PHB) by expression of response regulator DR1558 in recombinant <i>Escherichia coli</i> . <b>2019</b> , 131, 29-35	17
161	Evaluation of culture medium on poly(3-hydroxybutyrate) production by ATCC 17697: application of the response surface methodology. <b>2019</b> , 5, e01374	14
160	Biobased Biodegradable Polymers for Ecological Applications: A Move Towards Manufacturing Sustainable Biodegradable Plastic Products. <b>2019</b> , 215-253	2
159	Process design and economic evaluation of integrated, multi-product biorefineries for the co-production of bio-energy, succinic acid, and polyhydroxybutyrate (PHB) from sugarcane bagasse and trash lignocelluloses. <b>2019</b> , 13, 599-617	22
158	Recent developments in bioreactor scale production of bacterial polyhydroxyalkanoates. <b>2019</b> , 42, 901-919	16
157	Microbial production of poly (3-hydroxybutyrate) (PHB) from rubber seed oil using <i>Cupriavidus necator</i> H16. <b>2019</b> , 398, 012008	2
156	. <b>2019</b> ,	2
155	. <b>2019</b> ,	2
154	Polyhydroxyalkanoates: Resources, Demands and Sustainability. <b>2019</b> , 253-270	2



153	Lignocellulosic biomass (LCB): a potential alternative biorefinery feedstock for polyhydroxyalkanoates production. <b>2019</b> , 18, 183-205		59
152	Biodegradable Plastics Production by Cyanobacteria. <b>2019</b> , 131-143		1
151	Polyhydroxyalkanoates as biomaterial for electrospun scaffolds. <b>2019</b> , 124, 102-110		50
150	Production and characterization of PHB-HV copolymer by <i>Bacillus thuringiensis</i> isolated from <i>Eisenia foetida</i> . <b>2019</b> , 66, 340-352		8
149	Polyhydroxybutyrate production in halophilic marine bacteria <i>Vibrio proteolyticus</i> isolated from the Korean peninsula. <b>2019</b> , 42, 603-610		39
148	Purification and characterization of new bio-plastic degrading enzyme from <i>Burkholderia cepacia</i> DP1. <b>2019</b> , 155, 35-42		3
147	Poly(3-hydroxybutyrate) accumulation by <i>Azotobacter vinelandii</i> under different oxygen transfer strategies. <b>2019</b> , 46, 13-19		7
146	Effect of the addition of sepiolite on the morphology and properties of melt compounded PHBV/PLA blends. <b>2019</b> , 40, E156		15
145	Scanning electron microscopy and Fourier transmission analysis of polyhydroxyalkanoates isolated from bacteria species from abattoir in Ota, Nigeria. <b>2019</b> , 31, 285-298		7
144	Flow cytometry for quantitation of polyhydroxybutyrate production by <i>Cupriavidus necator</i> using alkaline pretreated liquor from corn stover. <b>2020</b> , 295, 122254		10
143	Production of the Polyhydroxyalkanoate PHBV from Ricotta Cheese Exhausted Whey by Fermentation. <b>2020</b> , 9,		18
142	Bioconversion of oily waste to polyhydroxyalkanoates: Sustainable technology with circular bioeconomy approach and multidimensional impacts. <i>Bioresource Technology Reports</i> , <b>2020</b> , 11, 100496	4.1	14
141	Conversion of Starchy Waste Streams into Polyhydroxyalkanoates Using DSM 545. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10
140	Biopolymer-based nanocomposite films and coatings: recent advances in shelf-life improvement of fruits and vegetables. <b>2020</b> , 1-24		26
139	Microplastic degradation by bacteria in aquatic ecosystem. <b>2020</b> , 431-467		13
138	Kinetic and Morphological Analysis of <i>C. necator</i> Cells During the Synthesis and Degradation of Intracellular Polyhydroxyalkanoates (PHAs). <b>2020</b> , 26, 85-86		
137	Effect of Radiation Crosslinking and Surface Modification of Cellulose Fibers on Properties and Characterization of Biopolymer Composites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
136	Printability, Mechanical and Thermal Properties of Poly(3-Hydroxybutyrate)-Poly(Lactic Acid)-Plasticizer Blends for Three-Dimensional (3D) Printing. <b>2020</b> , 13,		10

135	Ultrasound-assisted fermentative production of Polyhydroxybutyrate (PHB) in <i>Cupriavidus necator</i> . <b>2020</b> , 153, 107923		4
134	Kinetics of Secondary Reactions Affecting the Organosolv Lignin Structure. <b>2020</b> , 13, 4557-4566		5
133	Biological conversion of methane to polyhydroxyalkanoates: Current advances, challenges, and perspectives. <b>2020</b> , 2, 100029		15
132	Biopolymers from Lignocellulosic Biomass. <b>2020</b> , 125-158		7
131	Bacterial cellulose/cashew gum films as probiotic carriers. <b>2020</b> , 130, 109699		11
130	Preparation, statistical optimization and characterization of poly(3-hydroxybutyrate) fermented by <i>Cupriavidus necator</i> utilizing various hydrolysates of alligator weed ( <i>Alternanthera philoxeroides</i> ) as a sole carbon source. <b>2020</b> , 36, e2992		1
129	Polyhydroxybutyrate Bioresins with High Thermal Stability by Cross-linking with Resorcinol Diglycidyl Ether. <b>2020</b> , 21, 3447-3458		2
128	Value Proposition of Untapped Wet Wastes: Carboxylic Acid Production through Anaerobic Digestion. <b>2020</b> , 23, 101221		26
127	Physicochemical characteristics of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) electrospun nanofibres for the adsorption of phenol. <b>2020</b> , 15, 26-53		2
126	Advances in Sustainable Polymers. <b>2020</b> ,		3
125	Microbial production of biopolymers with potential biotechnological applications. <b>2020</b> , 105-137		7
124	. <b>2020</b> ,		7
123	Visible/near infrared spectroscopy and machine learning for predicting polyhydroxybutyrate production cultured on alkaline pretreated liquor from corn stover. <i>Bioresource Technology Reports</i> , <b>2020</b> , 9, 100386	4.1	11
122	Accumulation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by <i>Azotobacter vinelandii</i> with different 3HV fraction in shake flasks and bioreactor. <b>2020</b> , 43, 1469-1478		5
121	Optimization of media components and culture conditions for polyhydroxyalkanoates production by <i>Bacillus megaterium</i> . <i>Fuel</i> , <b>2020</b> , 271, 117522	7.1	22
120	Antimicrobial Materials with Lime Oil and a Poly(3-hydroxyalkanoate) Produced via Valorisation of Sugar Cane Molasses. <b>2020</b> , 11,		9
119	Bacterial polyhydroxyalkanoates: Opportunities, challenges, and prospects. <b>2020</b> , 263, 121500		67
118	Recent advances in polyhydroxyalkanoate production: Feedstocks, strains and process developments. <b>2020</b> , 156, 691-703		35

117	Environmental safety of biotechnological materials and processes. <b>2020</b> , 359-375	0
116	Waste to bioplastics: How close are we to sustainable polyhydroxyalkanoates production?. <b>2021</b> , 119, 374-388	55
115	Preparation, characterization and biodegradation of blend films of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with natural biopolymers. <b>2021</b> , 78, 3973-3993	1
114	A review of biopolymer (Poly-β-hydroxybutyrate) synthesis in microbes cultivated on wastewater. <b>2021</b> , 756, 143729	11
113	Modulated Composite Nanofibers with Enhanced Structural Stability for Promotion of Hard Tissue Healing. <b>2021</b> , 45, 529-537	2
112	Environmentally friendly method for poly(3-hydroxybutyrate) recovery based on physical adsorption on a solid inorganic inert adsorbent. <b>2021</b> , 256, 117836	1
111	Polyhydroxyalkanoates: Next generation natural biomolecules and a solution for the world's future economy. <b>2021</b> , 166, 297-321	21
110	Properties and Applications of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Biocomposites. <b>2021</b> , 29, 1010-1030	5
109	Fed-batch polyhydroxybutyrate production by <i>Paraburkholderia sacchari</i> from a ternary mixture of glucose, xylose and arabinose. <b>2021</b> , 44, 185-193	4
108	Production and application of bacterial polyhydroxyalkanoates. <b>2021</b> , 223-252	
107	Fruit Waste as Sustainable Resources for Polyhydroxyalkanoate (PHA) Production. <b>2021</b> , 205-229	1
106	Polyhydroxyalkanoates (PHAs): Biopolymers for Biofuel and Biorefineries. <i>Polymers</i> , <b>2021</b> , 13, 4-5	19
105	A Review on Natural Fiber Bio-Composites, Surface Modifications and Applications. <b>2021</b> , 26,	36
104	The Production and Applications of Microbial-Derived Polyhydroxybutyrates. <b>2021</b> , 3-43	4
103	Poly(lactic acid) (PLA) and polyhydroxyalkanoates (PHAs), green alternatives to petroleum-based plastics: a review.. <b>2021</b> , 11, 17151-17196	56
102	Biogas, biohydrogen, and polyhydroxyalkanoates production from organic waste in the circular economy context. <b>2021</b> , 305-343	1
101	An Overview of Microbial Derived Polyhydroxybutyrate (PHB): Production and Characterization. <b>2021</b> , 143-176	1
100	Improved fermentation strategies in a bioreactor for enhancing poly(3-hydroxybutyrate) (PHB) production by wild type from fructose. <b>2021</b> , 7, e05979	4

99	Production and characterization of polyhydroxyalkanoates from industrial waste using soil bacterial isolates. <b>2021</b> , 52, 715-726		2
98	Effects of nutrient and oxygen limitation, salinity and type of salt on the accumulation of poly(3-hydroxybutyrate) in <i>Bacillus megaterium</i> uyuni S29 with sucrose as a carbon source. <b>2021</b> , 61, 137-144		5
97	Haloarchaea as Cell Factories to Produce Bioplastics. <b>2021</b> , 19,		11
96	A Comparative Review of Natural and Synthetic Biopolymer Composite Scaffolds. <i>Polymers</i> , <b>2021</b> , 13,	4.5	121
95	Biocompatibility of polyhydroxybutyrate-co-hydroxyvalerate films generated from <i>Bacillus cereus</i> MCCB 281 for medical applications. <b>2021</b> , 176, 244-252		3
94	Improving biological production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) co-polymer: a critical review. <b>2021</b> , 20, 479-513		15
93	Poly-3-hydroxybutyrate synthesis by different <i>Azospirillum brasilense</i> strains under varying nitrogen deficiency: A comparative in-situ FTIR spectroscopic analysis. <b>2021</b> , 252, 119458		7
92	Changes in the Development and Reproductive Output of <i>Nitokra lacustris pacifica</i> (Crustacea: Copepoda) Yeatman, 1983 Under Short and Long Term Exposure to Synthetic and Biodegradable Microbeads. 1		1
91	Evaluation of Fed-Batch Fermentation for Production of Polyhydroxybutyrate With a Banana Pulp Juice Substrate From an Agro Industrial By-Product. <b>2021</b> , 5,		0
90	Microalgae as Contributors to Produce Biopolymers. <b>2021</b> , 19,		11
89	Post-Transcriptional Control in the Regulation of Polyhydroxyalkanoates Synthesis. <b>2021</b> , 11,		1
88	PHA granule formation and degradation by <i>Cupriavidus necator</i> under different nutritional conditions. <b>2021</b> , 61, 825-834		0
87	Polyhydroxyalkanoates for Sustainable Smart Packaging of Fruits. <b>2021</b> , 183-195		
86	Recent progress and challenges in cyanobacterial autotrophic production of polyhydroxybutyrate (PHB), a bioplastic. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105379	6.8	7
85	Wood Adhesives Based on Natural Resources: A Critical Review: Part IV. Special Topics. <b>2021</b> , 761-840		0
84	An updated overview on the regulatory circuits of polyhydroxyalkanoates synthesis. <b>2021</b> ,		1
83	An insight into enrichment strategies for mixed culture in polyhydroxyalkanoate production: feedstocks, operating conditions and inherent challenges. <b>2021</b> , 420, 130488		5
82	Engineered biodegradable melt-spun fibers. <b>2021</b> , 191-232		1

81	Green Composites with Cellulose Nanoreinforcements. 299-337		1
80	Microbial Polyesters: Production and Market. 95-108		1
79	Production, ultrasonic extraction, and characterization of poly (3-hydroxybutyrate) (PHB) using <i>Bacillus megaterium</i> and <i>Cupriavidus necator</i> . <b>2018</b> , 29, 2392-2400		33
78	Polyhydroxyalkanoates (PHAs) in Industrial Applications. <b>2017</b> , 1-30		11
77	Polyhydroxyalkanoates (PHAs) in Industrial Applications. <b>2018</b> , 1-30		4
76	Polyhydroxyalkanoates (PHAs) in Industrial Applications. <b>2019</b> , 2843-2872		5
75	Polyhydroxyalkanoates-Based Nanocomposites: An Efficient and Promising Way of Finely Controlling Functional Material Properties. <b>2014</b> , 1-20		1
74	Production, Characterization, and Applications of Biodegradable Polymer: Polyhydroxyalkanoates. <b>2020</b> , 51-94		6
73	CHAPTER 1:Bio-based Polymers and Materials. 1-28		4
72	CHAPTER 3:Recovery and Extraction of Polyhydroxyalkanoates (PHAs). <b>2014</b> , 47-65		1
71	Potential Use of Polyhydroxyalkanoate (PHA) for Biocomposite Development. <b>2009</b> , 193-226		4
70	The Growth of 3T3 Fibroblasts on PHB, PLA and PHB/PLA Blend Films at Different Stages of Their Biodegradation In Vitro. <i>Polymers</i> , <b>2020</b> , 13,	4-5	9
69	PHA Production Using Low-Cost Agro-Industrial Wastes by <i>Bacillus</i> sp. Strain COL1/A6. <b>2009</b> , 4, 89-96		32
68	Semi-Continuous and Continuous Anaerobic Treatment of Palm Oil Mill Effluent for the Production of Organic Acids and Polyhydroxyalkanoates. <b>2009</b> , 3, 552-559		23
67	Agro-Industrial Waste Materials as Substrates for the Production of Poly(3-Hydroxybutyric Acid). <b>2014</b> , 05, 229-240		27
66	Two-Stage Polyhydroxyalkanoates (PHA) Production from Cheese Whey Using C1 and sp. CYR1. <i>Bioengineering</i> , <b>2021</b> , 8,	5-3	5
65	Identification of Various Metabolites like Gases, Biopolymers and Biosurfactants. <i>Green Energy and Technology</i> , <b>2022</b> , 197-220	0.6	1
64	Development and Advantages of Biodegradable PHA Polymers Based on Electrospun PHBV Fibers for Tissue Engineering and Other Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> ,	5.5	16

63	Production of Poly(3-hydroxybutyrate) by <i>Cupriavidus necator</i> at Various Concentrations of Carbon Dioxide. <i>Daehan Hwanggyeong Gonghag Hoeji</i> , <b>2013</b> , 35, 109-114	0.6	
62	A VIEW ON ECO-FRIENDLY NATURAL FIBERS FOR PACKAGING. <b>2014</b> , 117-132		
61	Polyhydroxyalkanoates: Cost-Effective Production Strategies. 6375-6390		
60	Elastomers: Biodegradable Thermoplastic. 3100-3114		
59	Chapter 7 Polyhydroxyalkanoates: A Valuable Secondary Metabolite Produced in Microorganisms and Plants. <b>2016</b> , 185-214		0
58	Chapter 7 Polyhydroxyalkanoates: A Valuable Secondary Metabolite Produced in Microorganisms and Plants. <b>2016</b> , 185-214		
57	Biosynthesis of PHAs and Their Biomedical Applications. 543-585		1
56	Bioplastics Biotechnology. <b>2018</b> , 1-17		
55	Polyhydroxyalkanoates. 1-26		0
54	Triple knockout of <i>frdC</i> , <i>gltA</i> and <i>pta</i> genes enhanced pHA production in <i>Escherichia coli</i> . <i>Asia-Pacific Journal of Molecular Biology and Biotechnology</i> , 11-18	0.3	
53	Introduction and Background. <i>Springer Briefs in Molecular Science</i> , <b>2019</b> , 1-14	0.6	
52	Bioplastics: Fundamentals to Application. <i>Environmental and Microbial Biotechnology</i> , <b>2021</b> , 301-321	1.4	1
51	Biosynthesis and Characteristics of Polyhydroxyalkanoates. 1. Polyhydroxybutyrates of <i>Azotobacter vinelandii</i> N-15. <i>Chemistry and Chemical Technology</i> , <b>2020</b> , 14, 463-467	0.9	0
50	Surface-Modified Highly Biocompatible Bacterial-poly(3-hydroxybutyrate--4-hydroxybutyrate): A Review on the Promising Next-Generation Biomaterial. <i>Polymers</i> , <b>2020</b> , 13,	4.5	4
49	On-Line Control of Feast/Famine Cycles to Improve PHB Accumulation during Cultivation of Mixed Microbial Cultures in Sequential Batch Reactors. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	
48	Achievements in the production of bioplastics from microalgae. <i>Phytochemistry Reviews</i> , 1	7.7	4
47	Current strategies on algae-based biopolymer production and scale-up. <i>Chemosphere</i> , <b>2021</b> , 289, 133178.4		6
46	Sustainable biobased composites for advanced applications: recent trends and future opportunities [A critical review. <i>Composites Part C: Open Access</i> , <b>2022</b> , 7, 100220	1.6	13

45	Microalgae-based bioplastics: Future solution towards mitigation of plastic wastes.. <i>Environmental Research</i> , <b>2021</b> , 112620	7.9	3
44	Microbial Production of Bioplastic. <b>2021</b> , 295-318		
43	Polyhydroxyalkanoate production from food industry residual streams using mixed microbial cultures. <b>2022</b> , 265-284		
42	Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBH): synthesis, properties, and applications - A Review. <i>European Polymer Journal</i> , <b>2022</b> , 111044	5.2	4
41	Repurposing anaerobic digestate for economical biomanufacturing and water recovery.. <i>Applied Microbiology and Biotechnology</i> , <b>2022</b> ,	5.7	0
40	Recent advances in renewable polymer/metal oxide systems used for tissue engineering. <b>2022</b> , 395-445		
39	Poly lactide/poly(hydroxyalkanoate) blends. <b>2022</b> , 271-289		
38	Poly(3-hydroxybutyrate) biosynthesis by <i>Cupriavidus necator</i> : A review on waste substrates utilization for a circular economy approach. <i>Bioresource Technology Reports</i> , <b>2022</b> , 17, 100985	4.1	0
37	Role of carbon-dioxide sequestering bacteria for clean air environment and prospective production of biomaterials: a sustainable approach.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0
36	Production of polyhydroxyalkanoate nanoparticles using a green solvent. <i>Journal of Applied Polymer Science</i> , 52319	2.9	0
35	Optimization and production of bioplastic from bio waste using response surface methodology (RSM). <i>Environmental Quality Management</i> ,	0.8	0
34	Expanding Poly(lactic acid) (PLA) and Polyhydroxyalkanoates (PHAs) Applications: A Review on Modifications and Effects. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
33	High-Resolution Molecular-Level Characterization of a Blanket Bog Peat Profile.. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	
32	A review on biorefining of palm oil and sugar cane agro-industrial residues by bacteria into commercially viable bioplastics and biosurfactants. <i>Fuel</i> , <b>2022</b> , 321, 124039	7.1	0
31	Microbial Polyhydroxyalkanoates (PHAs): A Brief Overview of Their Features, Synthesis, and Agro-Industrial Applications. <b>2022</b> , 217-236		
30	Marine Biomaterials: Resources, Categories, and Applications. <b>2022</b> , 1-39		
29	Microalgal Biomass as Feedstock for Bacterial Production of PHA: Advances and Future Prospects. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10,	5.8	1
28	Biopolymers production from microalgae and cyanobacteria cultivated in wastewater: Recent advances. <i>Biotechnology Advances</i> , <b>2022</b> , 107999	17.8	4

27	Isolation of local strain of Bacillus sp. SM-11, producing PHB using different waste raw as substrate. <i>Research Journal of Pharmacy and Technology</i> , <b>2022</b> , 2053-2058	1.7	
26	Polyhydroxyalkanoates (PHAs) Production From Microalgae Cultivated in Wastewater. <i>Impact of Meat Consumption on Health and Environmental Sustainability</i> , <b>2022</b> , 585-609	0.3	0
25	Bioprocessing of low-value food waste to high value volatile fatty acids for applications in energy and materials: A review on process-flow. <i>Bioresource Technology Reports</i> , <b>2022</b> , 19, 101123	4.1	0
24	A Review on Enhancing Cupriavidus necator Fermentation for Poly(3-hydroxybutyrate) (PHB) Production From Low-Cost Carbon Sources. <i>Frontiers in Bioengineering and Biotechnology</i> , 10,	5.8	1
23	Production of polyhydroxyalkanoates by a novel strain of Photobacterium using soybean oil and corn starch. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 108342	6.8	0
22	Effect of Chain Stereoconfiguration on Poly(3-hydroxybutyrate) Crystallization Kinetics.		2
21	Production and Applications of Crude Polyhydroxyalkanoate-Containing Bioplastic from the Agricultural and Food-Processing Wastes. <b>2022</b> , 317-340		0
20	Bacterial genome reductions: Tools, applications, and challenges. 4,		0
19	Thauera sp. Sel9, a new bacterial strain for polyhydroxyalkanoates production from volatile fatty acids. <b>2022</b> , 72, 71-79		0
18	Microbial-Derived Biodegradable Polymers as Food Packaging Tool. <b>2022</b> , 81-114		0
17	Isolation and Characterization of Two PHA Producing Strains Isolated from Soil Sample of Nalgonda District.		0
16	Safety Issues, Environmental Impacts, and Health Effects of Biopolymers. <b>2022</b> , 1-27		0
15	Development of Food Packaging Films from Microorganism-Generated Polyhydroxyalkanoates.		1
14	Temperature and physical-mechanical properties of thermoplastic materials based on polyhydroxybutyrate. <b>2022</b> , 80-87		0
13	The earth-star basidiomycetous mushroom <i>Astraeus odoratus</i> produces polyhydroxyalkanoates during cultivation on malt extract. <b>2023</b> , 205,		0
12	Food waste valorization for handling environmental problems: a review. <b>2022</b> , 5, 401-421		0
11	Diversifying Polyhydroxyalkanoates: Synthesis, Properties, Processing and Applications. <b>2023</b> , 207-234		0
10	Formation of polyhydroxyalkanoates using agro and industrial waste as a substrate  review. 1-40		0



- 9 Genotypic and Phenotypic Detection of Polyhydroxyalkanoate Production in Bacterial Isolates from Food. **2023**, 24, 1250
- 8 An efficient and reusable N,N-dimethylacetamide/LiCl solvent system for the extraction of high-purity polyhydroxybutyrate from bacterial biomass. **2023**, 108812
- 7 Bioconversion of Used Transformer Oil into Polyhydroxyalkanoates by Acinetobacter sp. Strain AAAID-1.5. **2023**, 15, 97
- 6 Producci3 de pl3sticos biodegradables a partir de bacterias de h3bitats salinos aisladas de la Laguna de Ayarza. **2022**, 9, 189-198
- 5 Polyhydroxyalkanoates-based cast film as marine biodegradable packaging for fresh fruit and vegetables: manufacturing and characterization.
- 4 Cost effective media optimization for PHB production by Bacillus badius MTCC 13004 using the statistical approach. **2023**, 233, 123575
- 3 Agriculture waste to bioplastics: a perfect substitution of plastics. **2023**, 299-314
- 2 Metabolomic and cultivation insights into the tolerance of the spacecraft-associated Acinetobacter toward Kleenol 30, a cleanroom floor detergent. 14,
- 1 Structure analysis and thermal stability of PHB recovered from sugar industry waste. 1-23