Supplementary information

The environmental biorefinery: state of the art on the production of hydrogen and value-added biomolecules in mixed-culture fermentation

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Table S1: Technology readiness lev	el (TRL) scale according to	o the Euro	pean Commission
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TRL	Description
1	Basic principles observed
2	Technology concept formulated
3	Experimental proof of concept
4	Technology validated in lab
5	Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
6	Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
7	System prototype demonstration in operational environment
8	System complete and qualified
9	Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies)

Table S2: Patent database

Priority date	Title	Patent number	Patent status
2015	System and method for bio-electrochemical water oxidation	EP3075884 A1;	Application (EP)
2015	Food waste fermentation device using soil microbes and livestock manure composting device, biofield generator suitable for same, microbial cell suitable for same and microbial condenser suitable for same	WO2016129846 A1;	Application (WO)
2015	Processing of biomass materials	WO2016160955 A1;	Application (WO)
2015	Process for producing polyhydroxyalkanoates from precursors obtained by anaerobic fermentation from fermentable biomass	US2016251474 A1; WO2016135396 A1; FR3033168 B1;	Application (US; WO) Active (FR 2017)
2014	Conversion of biomass, organic waste and carbon dioxide into synthetic hydrocarbons	US2016186072 A1; WO2016101076 A1;	Application (US; WO)
2014	Maximizing production of hydrogen from waste materials by active removal of hydrogen	WO2016040074 A1;	Application (WO)
2014	Device for high-efficiency biological hydrogen and methane production	TW201602017 A;	Application (TW)
2014	Method for producing hydrogen by means of dark fermentation from biomass from the wine-producing industry, without using a microbial consortium	WO2016030623 A1;	Application (WO)
2014	Processes for controlling the concentration of co-produced oxygenated organics in anaerobic fermentation broths for the bioconversion of syngas to product oxygenated organic compound	US2016010123 A1; WO2016007659 A1;	Application (US; WO)
2014	Microorganism co-culture system and uses of the same	US2016068919 A1; CN105400860 A; TW201610165 A;	Application (US; CN; TW)

2014	Biofilm process for treating water with continuous or semi- continuous production of biomass with enhanced	WO2016020816 A3;	Application (WO)
2014	polyhydroxyalkanoate content	TW201545005.4	Withdrawn (EP 2017)
2014	Wastewater treatment method The production of hydrogen and other gaseous or liquid	TW201545995 A;	Application (TW)
2014	products in an accelerated bioprocess	CA2944425 A1; WO2015158950 A1;	Application (CA; WO)
2014	Process for producing biohydrogen and biomethane	MD4362 C1;	Active (MD 2016)
2014	Process for phototrophic production of phas and h2 gas from wide range of organic waste	WO2015123522 A1;	Application (WO)
2014	A method for improving the methane production rate through acidification pretreatment of hydrogen production of kitchen waste and sludge	CN104561222 A; WO2015143906 A1;	Application (CN; WO)
2013	Facilities for resource-recycling biotechnical hydrogen production from biomass	JP2015089945 A;	Application (JP)
2013	Biohydrogen production method and reactor	US2015111273 A1; CA2926577 A1; WO2015058295 A1; BR112016008913 A1; AU2014339713 A1; SG11201603032X A; KR20160068965 A; CN105722986 A; IL245228 A; EP3060672 A1; IN201617015900 A; VN48590 A; CU20160053 A7;	Application (US; CA; WO; BR; AU; SG; KR; CN; IL; IN; CU) Withdrawn (EP 2017)
2013	Circulatory bio hydrogen production facility using biomass	JP2015025172 A;	Application
2013	Method and system for production of hydrogen, methane, volatile fatty acids, and alcohols from organic material	CA2919263 A1; WO2015010192 A1; BR112016001701 A1; EP3024940 A1; US2016186218 A1; IN201617004244 A; JP2016532441 A;	Application (CA; WO; BR; IN; JP) Active (US 2017) Withdrawn (EP 2017)
2013	Bioelectrochemical system having polyvalent ion removing function	WO2014196825 A1; EP3006407 A1; CN105555715 A; US2016137536 A1;	Application (WO; EP; CN; US)
2013	Hydrogen production from dark fermentation of high-protein material under anaerobic condition	KR20140112292 A; KR101472379 B1;	Active (KR 2014)
2013	Method and plant for continuously producing hydrogen (h2) and methane (ch4) from zootechnical effluents	WO2014147558 A1; EP2976430 A1;	Application (WO; EP)
2013	Digester assemblies to provide renewable resources	US2014273196 A1; WO2014160252 A1; US9127244 B2;	Application (WO) Active (US 2015)
2013	Method for production of n-propanol and other c3-carbon containing products from syngas by symbiotic arrangement of c1-fixing and c3-producing anaerobic microorganism cultures	US2014273123 A1; WO2014140336 A1; CN105722987 A;	Application (US; WO; CN)
2013	Method for producing hydrocarbides	CA2908125 A1; WO2014170603 A1; FR3004727 B1; BR112015026341 A1; CN105264120 A; EP2986758 A1; US2016068866 A1;	Application (CA; WO; BR; CN; EP) Active (FR 2015; US 2017)
2013	Method for producing ethanol from organic waste, and facility for implementing said method	WO2014108653 A1; FR3000965 B1; EP2943574 A1;	Application (WO; EP) Active (FR 2015)
2013	Method for producing hydrogen gas using thermophilic granulated microorganism complex and hydrogen produced thereby	KR101299115 B1;	Active (KR 2013)
2013	Enhanced sewage biological nitrogen and phosphorus removal method based on polyhydroxyalkanoates metabolic regulation	CN103332829 B; WO2015000266 A1; EP3018105 A1;	Application (WO; EP) Active (CN 2015)
2012	Production of hydrogen using an anaerobic biological process	US2014157777 A1; US9506084 B2;	Active (US 2016)
2012	Microbial consortium for the production of hydrogen	WO2014033345 A1; ES2456776 B1;	Application (WO) Active (ES 2015)
2012	Microbial electrosynthetic cells	CA2880297 A1; WO2014043690 A1; EP2895594 A4; US2015259669 A1;	Application (CA; WO) Active (US 2018) Withdrawn (EP 2017)
2012	Method for producing c2 oxygenates by fermentation using high oxidation state sulfur	CA2877566 A1; US2014017747 A1; WO2014011867 A1; BR112014004951 A1; US2014220649 A1; AU2013290132 B2; CN104619849 A; EP2872638 A4; MX2015000452 A; US9212375 B2; RU2015104355 A;	Application (CA; WO; BR; CN; MX) Active (US 2015; AU 2017; RU 2018) Withdrawn (EP 2018)
2012	A fermentation process	CA2892303 C; WO2014088427 A1; AU2012396327 A1; BR112015013011 A1; KR20150091110 A; EP2929038 A4; CN104995306 A; US2015337343 A1; IN4745DELNP2015 A; JP2016500258 A; EA201591043 A1;	Application (WO; KR; EP; CN; US; IN; JP; EA) Active (CA 2016; AU 2017)
2012	System and Method for Producing Ethanol and Biogas	CA2823196 A1; US2014065685 A1; BR102013021902 A2;	Active (BR 2015) Withdrawn (CA 2014; US 2014)
2012	Microbial electrolysis cells and methods for the production of	US2013256149 A1; US9216919 B2;	Active (US 2015)

	chemical products		
2012	Anaerobiotic treatment method and device of organic waste	JP2013013896 A; JP5711192 B2;	Active (JP 2015)
2012	Process for anaerobic production of biohydrogen from organic waste	MD4217 C1;	Active (MD 2013)
2012	Method for producing lactic acid using continuous anaerobic reactors	KR101271005 B1;	Active (KR 2013)
2012	Treatment of biomass	CA2867650 A1; WO2013128390 A1; AU2013227278 B2; SG11201405057Y A; EP2820139 A4; KR20150004796 A; US2015050707 A1; CN104379754 A; JP2015515262 A; HK1205759 A1;	Application (CA; WO; EP; US; CN; JP; HK) Active (AU 2017; SG 2018) Withdrawn (KR 2018)
2012	Method and system for electro-assisted hydrogen production from organic material	CA2860463 A1; US2013217089 A1; WO2013120206 A1; AU2013220906 B2; BR112014020962 A1; CN104245944 A; EP2814971 A4; IN7590DEN2014 A; US9458474 B2; US2016333379 A1;	Application (CA; WO; BR; CN; EP; IN) Active (US 2016; AU 2016)
2012	Method for improving production of bio-hydrogen from waste water containing protein	CN102747106 B; WO2014005484 A1; US2015184200 A1;	Application (WO) Active (CN 2013; US 2017)
2011	Development of a combined biohydrogen and methane production unit using two-stage anaerobic co-digestion process	IN4505CHE2011 A;	Application (IN)
2011	Method and apparatus for anaerobically digesting organic material	US2013137153 A1;	Application (US)
2011	Crude glycerol fermenting process for the production of ethanol and hydrogen	ITRM20110480 A1; WO2013038435 A1; EP2756088 A1; US2014295515 A1;	Application (WO) Withdrawn (EP 2017; US 2016)
2011	Pre-thermal treatment of microalgae and high temperature and high efficiency hydrogen/methane fermentation process using waste heat of power-plant effluent gas	KR101181834 B1;	Active (KR 2012)
2011	Treatment method and treatment apparatus of organic waste	JP2012183510 A; JP5726576 B2;	Active (JP 2015)
2011	Apparatus for producing biohydrogen and biomethane from organic substance	LV14431 B;	Active (2012)
2011	Method and apparatus for manufacturing a hydroxycarboxylic acid product and use of bleaching filtrate	FI20115496 A; WO2012160255 A1; UY34085 A;	Application (FI; WO; UY)
2010	PROCESS FOR PRODUCTION OF HYDROGEN AND VOLATILE GREASY ACIDS	BRPI1005215 A8;	-
2010	Methods and systems for the production of alcohols and/or acids	CA2789333 C; CA2836686 C; WO2012054806 A3; TW201231669 A; AU2011316899 B2; US2013112576 A1; CN103270164 B; EA201390593 A1; US2013316411 A1; EA024224 B1;	Application (WO) Active (CA 2015; AU 2014; CN 2016; EA 2016)
2010	Bio-electrochemical systems	WO2012054629 A3; EP2630088 A4; US2014069806 A1;	Application (WO; US) Active (EP 2017)
2010	hydrogen and methane gas producing device using two phase anaerobic digestion reactor	KR20120033081 A; KR101185225 B1;	Active (KR 2012)
2010	Method of treating municipal wastewater and producing biomass with biopolymer production potential	CA2808142 A1; WO2012023114 A1; AU2011292811 B2; KR20130048248 A; EP2606007 A1; US2013199997 A1; CN103298753 B; JP2013537483 A; BR112013003609 A2; KR20150141194 A; JP5855102 B2;	Application (CA; WO; BR) Active (CN 2015; JP 2016; Withdrawn (EP 2017; US 2017) Rejected (KR 2016)
2010	Method for producing energy-rich gases from lignocellulosic material streams	WO2012003556 A1; BR112012016005 A2;	Application (WO, BR)
2010	Continuous Process and device of production of ethanol from [organico] garbage and other residues of biomass	BRPI1000194 A2;	Application (BR)
2010	Production of polyhydroxyalkanoates	GB201004096 D0; GB2478588 A; WO2011112154 A1; AU2011224898 A1; SG184015 A1; EP2545179 A4; JP2013521802 A; US2013164800 A1;	Application (WO, AU, SG) Withdrawn (GB 2015; EP 2014; US 2014) Rejected (JP 2014)
2009	A bioelectrochemical cell system	WO2011011829 A1; AU2010278674 A1;	Application (WO; AU)
2009	Alcohol production process	WO2011002318 A1; US2011212433 A1; EP2449121 A4; CN102471783 A; KR20120055549 A; US2013252230 A1; US8906655 B2; IN646DEN2012 A;	Application (WO; EP; CN; IN) Active (KR 2017; US 2014)
2009	Bio-electrochemical device and method for upgrading a fluid	NL2003812 C; WO2011062485 A3; EP2502301 A2;	Application (WO) Active (NL 2011) Withdrawn (EP 2017)
2009	A method for diohydrogen gas production	TW201107480 A; TWI406949 B;	Active (TW 2013)

	from biomass feedstocks using an anaerobic biological system	AR077702 A1; US8246828 B2;	Withdrawn (US 2016)
2009	Improved fermentation of gaseous substrates	WO2011028137 A1; TW201114886 A; US2011244538 A1; AU2010290201 B2; US8178330 B2; CN102498214 B; EP2519641 B1; NZ598279 A; TW1490328 B;	Application (WO) Active (US 2012; AU 2013; CN 2013; EP 2014; NZ 2013; TW 2015)
2009	Process for the production of polyhydroxyalkanoates	WO2011031566 A1; US2012165500 A1;	Application (WO) Withdrawn (US 2014)
2009	Diphasic algal culture system	WO2010150190 A3; AU2010264093 B2; AP201206098 D0; IN0165MUMNP2012 A; CN102575209 B; ZA201200430 B; AP3236 A;	Application (WO; IN) Active (CN 2016; ZA 2014) Withdrawn (AU 2018)
2009	Microbial electrolytic cell	WO2010117864 A1; US2012082869 A1;	Application (WO) Withdrawn (US 2014)
2009	System and method for producing hydrogen and methane	KR100967919 B1;	Active (KR 2010)
2009	Method for energetic, waste-free recycling of vegetable raw materials, which are converted into energy source e.g. ethanol and methane and into a fertilizer, comprises hydrolyzing vegetable raw materials, and fermenting	DE102009024423 A1;	Withdrawn (DE 2012)
2009	Semi-continuous process for hydrogen production from organic waste	EP2246436 A1;	Withdrawn (EP 2011)
2009	Method for treating glycerol	JP2010193767 A;	Application (JP)
2009	System and method for hydrogen production	KR100941214 B1;	Active (KR 2010)
2009	Integrated system for hydrogen and methane production from industrial organic wastes and biomass	CA2751046 A1; WO2010085893 A1; AU2010207871 B2; EP2391706 A4; CN102300977 B; US2012009643 A1; IN1716MUMNP2011 A; BRP11007417 A2; US8900840 B2; US2014370587 A1; US2016068794 A1; US9303242 B2;	Application (WO; EP; IN; BR) Active (CA 2017; AU 2015; CN 2015; US 2014)
2009	Compositions and methods for conversion of lignocellulosic material to fermentable sugars and products produced therefrom	CA2755449 C; WO2010107944 A1; US2010248320 A1; AU2010226673 A1; EP2408924 A1; TR201109113 T1; CN102449156 A; VN29679 A; MX2011009745 A; JP2012520682 A; BRPI1012700 A2; TH120309 A; RU2011139512 A; US8658407 B2;	Application (WO; AU; TR; CN; VN; MX; JP; BR; TH; RU) Active (CA 2015; US 2014) Withdrawn (EP 2013)
2009	Bioreactor process for production of hydrogen from biomass	WO2010131224 A3; EP2430145 A2; US2012088266 A1; CN102459563 B; IN9826DELNP2011 A; US9222108 B2;	Application (WO; IN) Active (EP 2017; US 2015; CN 2016)
2009	Method for recovering and producing ethanol and oil	WO2010084589 A1; KR20110105838 A; EP2390014 A4; CN102292170 B; US2012034667 A1; BRPI0924092 A1; US8722372 B2; KR101612875 B1;	Application (WO; EP; BR) Active (KR 2016; CN 2014; US 2014)
2008	Process for the production of chemicals	CA2747212 A1; WO2010068994 A1; AU2009328649 A1; EP2373832 A1; CN102282295 A; US2011315560 A1; JP2012512326 A; BRPI0923180 A1;	Application (WO; CN; JP; BR) Withdrawn (CA 2014; AU 2014; EP 2014; US 2015)
2008	Production of methanol or methanol derivatives	WO2010068979 A1;	Application (WO)
2008	Microbial electrolytic cell	WO2010045072 A3;	Application (WO)
2008	Three stage, multiple phase anaerobic digestion system and method	CA2732681 A1; WO2010014919 A1; US2011136213 A1; US8765449 B2; US2014315292 A1;	Application (WO) Active (US 2014) Withdrawn (CA 2014)
2008	Biomass alcohol manufacturing method	WO2009122728 A1; US2011053234 A1; JP5142347 B2; US8993283 B2;	Application (WO) Active (US 2015; JP 2013)
2008	Production of hydrogen and/or ethanol by the anaer	TW200936762 A; TWI354704 B;	Active (TW 2011)
2008	Alcohol production process	US2009275787 A1; US8119844 B2;	Active (US 2012)
2008	Systems and methods for anaerobic digestion and collection of products	GB0915377 D0; GB2464585 B; AU2009308085 B2; CA2741199 C; WO2010047815 A3; AP201105689 D0; EP2361229 A4; CN102227383 B; HK1143609 A1; US2014154754 A1; AP3504 A;	Application (WO; AP; EP; HK) Active (GB 2012; AU 2014; CA 2016; CN 2014)
2007	Method and apparatus for membrane-based, two-stage gas production from solid biomaterials	US8093041 B1; US2012107895 A1; US8343749 B2;	Active (US 2013)
2007	Method and device for microbial production of a certain product and methane	DE102007048277 A1; WO2009047275 A8; EP2198034 A2; CN101861394 A; US2010285548 A1; BRPI0818613 A1; US8426162 B2;	Application (WO; CN; BR) Withdrawn (DE 2012; EP 2014) Active (US 2013)

2007	Microbial hydrogen-producing process and system thereof	US2009035812 A1; TW200907051 A; US8003344 B2;	Active (US 2011) Rejected (TW 2011)
2007	Method for producing hydrogen from organic wastes	US2008277337 A1; US7901916 B2;	Active (US 2011)
2007	Method for producing bio-hydrogen using iron dust	KR100853715 B1;	Active (KR 2008)
2007	Alcohol production process	WO2008115080 A1; NZ553984 A; US2010105115 A1; US8293509 B2;	Application (WO) Active (NZ 2009; US 2012)
2007	A system for bioelectrochemical hydrogen production using sun light	KR100841736 B1;	Active (KR 2008)
2007	Concurrent anaerobic digestion and fermentation of lignocellulosic feedstocks	AU2008255540 B2; CA2687916 C; WO2008144903 A1; EP2158167 A4; CN101711229 B; JP2010528593 A; US2011236946 A1; NZ581476 A; IN8516DELNP2009 A; BRP10812072 A2;	Application (WO; IN; BR) Active (AU 2014; CA 2016; CN 2012) Withdrawn (EP 2014; JP 2013; US 2015; NZ 2015)
2007	Membrane supported bioreactor for conversion of syngas components to liquid products	US2008305539 A1; US2008305540 A1; WO2008154301 A1; US2009017514 A1; US2009029434 A1; US2009104676 A1; US2010047886 A1; WO2010048421 A3; US7923227 B2; WO2011068576 A1; US2011183390 A1; US8017384 B2; CN102197138 B; US2011256597 A1; US8101387 B2; US8198055 B2; US8541214 B2; US8828692 B2; US2014377822 A1;	Application (WO) Active (US 2012; CN 2014)
2007	Energy efficient methods to produce products	AU2008212826 A1; CA2676982 A1; US2008193989 A1; WO2008098254 A3; MX2009008496 A; EP2121946 A4; CN101646776 A; JP2010517581 A; BRPI0806417 A2; NZ578813 A; US8329436 B2; US2013189752 A1;	Application (WO; CN; JP; BR) Active (US 2012; MX 2013) Withdrawn (AU 2014; CA 2014; EP 2014; NZ 2015)
2007	Process for the poduction of biogas and amino acids from a hydrolysate	EP1980620 B1; DE102007017184 A1; CN101307333 B; BRPI0801142 A2; US2009098598 A1; US8318465 B2; DK1980620 T3; ES2542692 T3;	Application (DE ; BR) Active (EP 2015; CN 2014; US 2012; DK 2015; ES 2015)
2007	Apparatus and method for biohydrogen production	GB0705583 D0; US2008233624 A1;	Withdrawn (GB 2011; US 2011)
2006	Production of hydrogen and methane from wastewater streams	WO2008081292 A3; EP2109589 B1; ZA200903628 B; ES2477329 T3;	Application (WO) Active (ZA 2010; EP 2014; ES 2014)
2006	Process and apparatus for producing hydrogen from sewage sludge	US2008152967 A1; WO2008083008 A1; IN4443CHENP2009 A; EP2132362 A4;	Application (WO) Withdrawn (US 2012; IN 2017; EP 2013)
2006	Hydrogen production method for increasing hydrogen production yield using a trickling bed reactor	KR100813151 B1;	Active (KR 2008)
2006	Device for the combined production of hydrogen and methane by fermentation of biological starting materials, comprises fermentation container, and units for discharge of liquid conversion products and for restraint of micro organisms	DE102006035213 B4;	Active (DE 2012)
2006	A novel treatment method for wastewater with a high concentration of organics and its equipment	TW200742737 A;	Rejected (TW 2010)
2006	Process for enhancing anaerobic biohydrogen production	US7232669 B1; TW200734464 A; TWI307364 B;	Active (US 2007; TW 2009)
2006	Process for over-production of hydrogen	AU2007216223 B2; CA2642247 A1; A8; EP1989287 A2; KR20080108990 A; CN101384696 B; IN1127MUM2006 A; JP2009544276 A; US2009325255 A1; BRPI0706993 A2; IN272988 B;	Application (KR; BR) Active (CN 2013; IN 2016) Withdrawn (AU 2017; CA 2017; EP 2017; JP 2014; US 2017)
2005	Method for obtaining hydrogen and methane from bioresidues, includes two phases, where in former phase aqueous suspension of bioresidues is introduced in reactor, and crushed to obtain particle size less than five millimeter	ES2292312 B1;	Active (ES 2009)
2005	Anaerobic phased solids digester for biogas production from organic solid wastes	WO2007075762 A3; US2007158264 A1; US7556737 B2;	Application (WO) Active (US 2009)
2005	Hydrogen fermentor and method of producing hydrogen	WO2007060791 A1; TW200724674 A; IN5298DELNP2008 A; CN101312795 A; US2009263876 A1; US7968322 B2; BRPI0618883 A2; JP5374044 B2;	Application (WO; CN) Active (US 2011; JP 2013) Withdrawn (IN) Rejected (TW 2012)
2005	Process for enhancing anaerobic biohydrogen production	TWI271380 B; TW200724483 A;	Active (TW 2007)
2005	Method for producing hydrogen from biomass	JP2007159534 A; JP5334077 B2;	Withdrawn (JP 2016)
2005	Hydrogen generating system	JP2007159457 A;	Rejected (2011)

Hydrogen fermentation method	JP2007098239 A;	Rejected (2011)
Methods for manufacturing hydrogen using anaerobic digestion	US2006289355 A1; US7540961 B2;	Active (US 2009)
Anaerobic production of hydrogen and other chemical products	CA2605468 C; WO2006119052 A3; EP1877565 A4; US2008311640 A1; US8501463 B2;	Application (WO) Active (CA 2016; US 2013) Withdrawn (EP 2012)
Continuous anaerobic hydrogen-fermenting process for treating organic waste and method of producing hydrogen gas	KR100553231 B1;	Active (KR 2006)
Producing Mothod of Hydrogen Gas Using Anaerobic Microorganism Complex	KR20060110394 A; KR100719485 B1;	Active (KR 2007)
Method for Preparation of Anaerobic Microorganism Complex for Hydrogen Production	KR20060110393 A; KR100680625 B1;	Active (KR 2007)
Two-stage fermentation process and assembly to generate hydrogen and methane from biological residues	DE102005012367 A1;	Rejected (DE 2009)
Treatment method of organic waste accompanied by hydrogen	JP2006223962 A;	Rejected (JP (2010)
Process for microbial production of hydrogen and methane	US7575907 B1;	Active (US 2009)
Nutrient salt formula for hydrogen production of anaerobic organism	TW200606127 A;	Rejected (TW 2008)
Method for continuously producing hydrogen	JP2006042691 A;	Rejected (JP 2010)
Method for producing biological fuel	CA2579192 A1; WO2006029971 A3; BE1016178 A3; EP1797164 B1;	Application (WO) Active (BE 2006; EP 2016) Withdrawn (CA 2011)
Hydrogen production by anaerobic co-digestion of Organic waste	KR20050099847 A; KR100622994 B1;	Active (KR 2006)
Biogas Production Method Using Food Waste	KR20050092272 A; KR100592491 B1;	Active (KR 2006)
Hydrogen fermentation method	JP2005211782 A;	Refused (JP 2009)
Hydrogen production apparatus	JP2005200283 A;	-
Bio-electrochemical process for producing hydrogen	CA2531682 C; WO2005005981 A3; EP1656557 B1; CN1856706 B; US2007042480 A1; JP2007528709 A; US7439047 B2; AT491156 T; DE602004030454 D1; HK1092215 A1;	Application (WO) Active (CA 2013; EP 2010; CN 2010; US 2008; DE 2010) Withdrawn (AT 2011)
Method and apparatus for anaerobically treating organic waste	JP2005125149 A; JP5121111 B2;	Active (JP 2013)
Hydrogen and methane two-stage fermentation treatment method for waste bread	JP2005066420 A;	Rejected (JP 2008)
	JP2005066420 A; TW200417533 A; TWI256946 B;	Rejected (JP 2008) Active (TW 2006)
method for waste bread Microbial production of hydrogen under anaerobic condition Improved biological production of hydrogen and co- production of methane		
method for waste bread Microbial production of hydrogen under anaerobic condition Improved biological production of hydrogen and co-	TW200417533 A; TWI256946 B; TW200404046 A; SG111965 A1;	Active (TW 2006)
method for waste bread Microbial production of hydrogen under anaerobic condition Improved biological production of hydrogen and co- production of methane Method for producing hydrogen by microbial group and the	TW200417533 A; TWI256946 B; TW200404046 A; SG111965 A1; TW1308904 B;	Active (TW 2006) Active (TW 2009)
	Methods for manufacturing hydrogen using anaerobic digestionAnaerobic production of hydrogen and other chemical productsContinuous anaerobic hydrogen-fermenting process for treating organic waste and method of producing hydrogen gasProducing Mothod of Hydrogen Gas Using Anaerobic Microorganism ComplexMethod for Preparation of Anaerobic Microorganism Complex for Hydrogen ProductionTwo-stage fermentation process and assembly to generate hydrogen and methane from biological residuesTreatment method of organic waste accompanied by hydrogen production by microorganismsProcess for microbial production of hydrogen and methane fuelsNutrient salt formula for hydrogen production of anaerobic organismMethod for producing biological fuelHydrogen production by anaerobic co-digestion of Organic wasteBiogas Production Method Using Food WasteHydrogen fermentation methodHydrogen production apparatusBio-electrochemical process for producing hydrogenMethod and apparatus for anaerobically treating organic waste	Methods digestionfor manufacturing hydrogen digestionUS2006289355 A1; US7540961 B2; US2006289355 A1; US7540961 B2; CA2605468 C; WO2006119052 A3; EP187765 A4; US2008311640 A1; US8501463 B2;Anaerobic producting motived of treating organic waste and method of producing hydrogen gasCA2605468 C; WO2006119052 A3; EP187765 A4; US2008311640 A1; US8501463 B2;Producing Mothod of Hydrogen GasUsing Anaerobic Microorganism ComplexKR100553231 B1;Method for Preparation of Anaerobic Microorganism ComplexKR20060110394 A; KR100719485 B1; KR20060110393 A; KR100680625 B1;Two-stage for Hydrogen ProductionDE102005012367 A1; P2006223962 A; US005012367 A1;Treatment method of organic waste accompanied by hydrogen production by microorganismsDE102005012367 A1; P2006223962 A;Process for microbial production of hydrogen and methane fuelsUS7575907 B1; TW200606127 A; TW200606127 A;Method for producing hydrogenJP2006022991 A; BE1016178 A3; EP1797164 B1;Hydrogen production by anaerobic co-digestion of Organic wasteKR20050099847 A; KR100622994 B1; KR20050092272 A; KR100592491 B1;Biogas Production Method Using Food WasteKR20050092272 A; KR100592491 B1; JP200520283 A; CA2531682 C; WO2005005981 A3; EP1656557 B1; CN1856706 B; US2007042480 A1; JP2007528709 A; US7A39047 B2; AT491156 T; DE602004030454 D1; HK1092215 A1;

The patent status column was assessed in March 2018. Years indicated near country abbreviations in this column correspond to the date of the last status update.

Table S3: Scientific article database

Date	Title	DOI
2017	Effects of pH and substrate concentrations on dark fermentative biohydrogen production from	10.1007/s11274-016-2178-1
	xylose by extreme thermophilic mixed culture Factors affecting on hythane bio-generation via anaerobic digestion of mono-ethylene glycol	
2017	contaminated wastewater: Inoculum-to-substrate ratio, nitrogen-to-phosphorus ratio and pH	10.1016/j.biortech.2016.10.026
2017	Hydrogen production from starch by co-culture of <i>Clostridium acetobutylicum</i> and <i>Rhodobacter sphaeroides</i> in one step hybrid dark- and photofermentation in repeated fed-batch reactor	10.1016/j.biortech.2016.10.060
2017	Long-term operation of microbial electrosynthesis cell reducing CO2 to multi-carbon chemicals with a mixed culture avoiding methanogenesis	10.1016/j.bioelechem.2016.09.001
2016	High-purity propionate production from glycerol in mixed culture fermentation	10.1016/j.biortech.2016.08.026
2016	Regulation of acidogenic metabolism towards enhanced short chain fatty acid biosynthesis from waste: Metagenomic profiling	10.1039/c5ra24254a
2016	Cell wash-out enrichment increases the stability and performance of biohydrogen producing packed-bed reactors and the community transition along the operation time	10.1016/j.renene.2016.05.082
2016	The type of carbohydrates specifically selects microbial community structures and fermentation patterns	10.1016/j.biortech.2016.09.084
2016	Dark fermentative hydrogen and ethanol production from biodiesel waste glycerol using a co- culture of <i>Escherichia coli</i> and <i>Enterobacter</i> sp.	10.1016/j.fuel.2016.08.043
2016	Mesophilic and Thermophilic Biohydrogen Production from Xylose at Various Initial pH and	10.1021/acs.energyfuels.5b02143
2016	Substrate Concentrations with Microflora Community Analysis High rate hydrogen fermentation of cello-lignin fraction in de-oiled jatropha waste using hybrid	10.1016/j.fuel.2016.05.088
2016	immobilized cell system Short-chain fatty acids production and microbial community in sludge alkaline fermentation:	10.1016/j.biortech.2016.03.138
2010	Long-term effect of temperature Performance and microbial community analysis in alkaline two-stage enhanced anaerobic sludge	-
	digestion system Microbial responses to various process disturbances in a continuous hydrogen reactor fed with	10.1016/j.bej.2015.10.004
2016	galactose Evaluation of different pretreatments on organic matter solubilization and hydrogen fermentation	10.1016/j.jbiosc.2016.08.006
2016	of mixed microalgae consortia Changes in microbial community during hydrogen and methane production in two-stage	10.1016/j.ijhydene.2016.05.195
2016	thermophilic anaerobic co-digestion process from biowaste	10.1016/j.wasman.2016.01.016
2016	Pretreatment conditions of rice straw for simultaneous hydrogen and ethanol fermentation by mixed culture	10.1016/j.ijhydene.2015.10.147
2016	Process enhancement of hydrogen and methane production from palm oil mill effluent using two- stage thermophilic and mesophilic fermentation	10.1016/j.ijhydene.2016.05.037
2016	Co-generation of biohydrogen and biomethane through two-stage batch co-fermentation of macro- and micro-algal biomass	10.1016/j.biortech.2016.06.092
2016	Optimum alcohol concentration for chain elongation in mixed-culture fermentation of cellulosic substrate	10.1002/bit.26024
2016	Two-stage thermophilic fermentation and mesophilic methanogenic process for biohythane production from palm oil mill effluent with methanogenic effluent recirculation for pH control	10.1016/j.ijhydene.2016.07.095
2016	Potential and optimization of two-phase anaerobic digestion of oil refinery waste activated sludge and microbial community study	10.1038/srep38245
2016	Fermentative biohydrogen and biomethane co-production from mixture of food waste and sewage sludge: Effects of physiochemical properties and mix ratios on fermentation performance	10.1016/j.apenergy.2016.10.003
2016	Boosting dark fermentation with co-cultures of extreme thermophiles for biohythane production	10.1016/j.biortech.2016.07.096
2016	from garden waste High-rate hydrogen production from galactose in an upflow anaerobic sludge blanket reactor	10.1039/c6ra09298e
2016	(UASBr) Critical analysis of hydrogen production from mixed culture fermentation under thermophilic	10.1007/s00253-016-7482-z
2016	condition (60°C) Production of Bio-Based Hydrogen Enriched Methane from Waste Glycerol in a Two Stage	10.1007/s12649-016-9538-9
2016	Continuous System Consistent 1,3-propanediol production from glycerol in mixed culture fermentation over a wide	10.1186/s13068-016-0447-8
2016	range of pH Single-stage and two-stage anaerobic digestion of extruded lignocellulosic biomass	10.1016/j.apenergy.2016.10.039
2016	Comparison of various carbohydrates for hydrogen production in microbial electrolysis cells	10.1080/13102818.2015.1081078
2016	Increased performance of hydrogen production in microbial electrolysis cells under alkaline conditions	10.1016/j.bioelechem.2016.01.003
2016	Fermentative hydrogen production in an up-flow anaerobic biofilm reactor inoculated with a co-	10.1016/j.biortech.2016.09.072
2016	culture of <i>Clostridium acetobutylicum</i> and <i>Desulfovibrio vulgaris</i> Biochemical hydrogen and methane potential of sugarcane syrup using a two-stage anaerobic	10.1016/j.indcrop.2015.12.002
2016	fermentation process Microbial dynamics of the extreme-thermophilic (70 °C) mixed culture for hydrogen production	10.1016/j.ijhydene.2016.04.085
	in a chemostat Towards biohythane production from biomass: Influence of operational stage on anaerobic	
2016	fermentation and microbial community	10.1016/j.ijhydene.2015.06.045

2016 Combining the enrolmment and accumulation step in non-ascenic PHA production: Cultivation of Planticiumulation and high volume exclusing ratios 10.1016/j.jbietec.2016.06.016 2016 Effect of onduit of hyracia and high volume exclusing ratios 10.1016/j.jbietec.2016.06.016 2016 Effect of onduit of hyracia and high volume exclusions of the immutances photofermentative production of the immutances photofermentative photopynthese exclusions a binaris CGA009 in a cellulose-grown coculture for enhanced bydrogen production from call and the immutances photopynthese in the immutances photopynthese in the immutance in the i			
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2016 Product Diversity Linked to Substrate Usage in Chain Elongation by Mixed-Culture Fermentation 10.1021/acc.set.5b06021 2016 Single and two-stage anacrobic digestion for hydrogen and methane production from acid and enzymatric evaluation of Agave tequilland bagase 10.1016/j.jibyden.2015.11.016 2016 Enrichment of secondary wastewater sludge for production of hydrogen from crude glycerol and compartive evaluation of mone, co- and inted-culture systems 10.1016/j.jibyden.2016.01.125 2016 Microbial dynamics in ethanol Fermentation from glycerol 10.1016/j.jibyden.2016.01.125 2016 Microbial dynamics in ethanol Fermentation and percentation and electrohydrolysis 10.1016/j.jibyden.2016.01.125 2016 Hydrogen production from waste peach pulp by dark fermentation and electrohydrolysis 10.1016/j.jibyden.2015.01.11.77 2016 Hydrogen production from waste peach pulp by dark fermentative cultures of dark-fermentative and photosymhetic bacteria 10.1016/j.jibyden.2016.07.02 2016 Ottimization of Hydrogen production by the co-culture of dark-fermentative and enzymatria by dydrogen production by Response Surface Methodology Using gammation 10.1016/j.jibyden.2016.07.02 2016 Methanol as an alternative electron donor in chain clongation for bydraing gammaters 10.1016/j.jibyden.2016.07.02 2016 Biohydrogen production from waste peach pulp by dark fermentation. 1	2016	Transcriptomic responses of the interactions between <i>Clostridium Cellulovorans</i> 743b and <i>Rhodopseudomonas Palustris</i> CGA009 in a cellulose-grown coculture for enhanced hydrogen	10.1128/AEM.00789-16
2010 enzymatic hydrolysates of Agave tequilane bagase 10.00169, jipydene.2015.11.01 2016 Enrichment of secondary wastewate alloge for production of hydrogen from crude glycerol and photosynthetic consortium 10.3390/ijms17010092 2016 Microhial dynamics in ethanol fermentation from glycerol 10.1016/j.jipydene.2016.01.125 2016 Microhial dynamics in ethanol fermentation from glycerol 10.1016/j.jipydene.2016.01.135 2016 Dimitation of biolydrogen production from wastewater treatments applied to biological generation of Hy. 10.1007/s10973-016-5932-6 2016 Characterization of hydrogen production by the co-culture of dark-fermentative and photosynthetic bacteria 10.1016/j.jipydene.2015.11.170 2016 Characterization of hydrogen production by the co-culture of dark-fermentative photosynthetic bacteria 10.1016/j.jipydene.2016.07.02 2016 Mesophile biogenic H2 production using galactose in a fixed bed reactor 10.1016/j.jipydene.2016.07.02 2016 Optimization of Hydrogen Production by Response Surface Methodology Using gamma- irradiated Shudge as inoculam 10.1016/j.jipydene.2016.07.02 2016 Optimization of Hydrogen roduction from waste peach pulp by dark fermentation. 10.1016/j.jipydene.2016.07.02 2016 Methodobacter sphaeroides and mixed photofermentative cultures 10.1016/j.jipydene.2016.	2016	<u>.</u>	10.1021/acs.est.5b06021
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	2016	A new biological process for short-chain fatty acid generation from waste activated sludge improved by <i>Clostridiales</i> enhancement	10.1007/s11356-016-7579-z
nydrolysates by two-stage anaerobic digestion process	2016	hydrolysates by two-stage anaerobic digestion process	10.1016/j.biortech.2016.06.113
Effect of biochar addition on hydrogen and methane production in two phase anaerobic digestion	2016	Effect of biochar addition on hydrogen and methane production in two-phase anaerobic digestion	10.1016/j.biortech.2016.07.089
Biohydrogen and methane production via a two step process using an acid pretreated native	2016	Biohydrogen and methane production via a two-step process using an acid pretreated native	10.1016/j.biortech.2016.09.050

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2016	Microbial electrolysis cell to treat hydrothermal liquefied wastewater from cornstalk and recover hydrogen: Degradation of organic compounds and characterization of microbial community	10.1016/j.ijhydene.2016.01.032
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2016	Photosynthetic hydrogen production from enzyme-hydrolyzed micro-grinded maize straws	10.1016/j.ijhydene.2016.07.029
2015	Optimization of substrate composition for biohydrogen production from buffalo slurry co- fermented with cheese whey and crude glycerol, using microbial mixed culture	10.1016/j.ijhydene.2014.11.008
2015	Sequential fermentative and phototrophic system for hydrogen production: An approach for Brazilian alcohol distillery wastewater	10.1016/j.ijhydene.2015.06.003
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2015	Enhanced dark fermentative hydrogen production by zero-valent iron activated carbon micro- electrolysis	10.1016/j.ijhydene.2015.07.106
2015	Fermentative hydrogen production from corn stover hydrolyzate by two typical seed sludges: Effect of temperature	10.1016/j.ijhydene.2015.01.120
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2015	Effects of anti-foaming agents on biohydrogen production	10.1016/j.biortech.2016.02.121
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2015	Improvement of bioelectrochemical property and energy recovery by acylhomoserine lactones (AHLs) in microbial electrolysis cells (MECs)	10.1016/j.jpowsour.2015.03.007
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2015	Improved cellulose conversion to bio-hydrogen with thermophilic bacteria and characterization of microbial community in continuous bioreactor	10.1016/j.biombioe.2015.02.010
2015	Bioaugmentation of <i>Lactobacillus delbrueckii ssp. bulgaricus</i> TISTR 895 to enhance bio- hydrogen production of <i>Rhodobacter sphaeroides</i> KKU-PS5	10.1186/s13068-015-0375-z
2015	Thermophilic fermentative biohydrogen production from xylan by anaerobic mixed cultures in elephant dung	10.1080/15435075.2014.887567
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2015	Sequential fermentative and phototrophic system for hydrogen production: An approach for Brazilian alcohol distillery wastewater	10.1016/j.ijhydene.2015.06.003
2015	Identification of <i>Candida tropicalis</i> BH-6 and Synergistic Effect with <i>Pantoea agglomerans</i> BH- 18 on Hydrogen Production in Marine Culture	10.1007/s12010-014-1436-7
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2015	Efficient Anaerobic Co-Digestion of Municipal Food Waste and Kitchen Wastewater for Bio- Hydrogen Production	10.1080/15435075.2014.909357
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2015	Impact of pH management interval on biohydrogen production from organic fraction of municipal solid wastes by mesophilic thermophilic anaerobic codigestion	10.1155/2015/590753
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2009 Improving hydrogen production from cassava starch by combination of dark and photo 10.1016/j.ijhydene.2008.12.045	2009		10.1016/j.ijhydene.2008.12.045
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2001	H_2 production from algal biomass by a mixed culture of <i>Rhodobium marinum</i> A-501 and <i>Lactobacillus amylovorus</i>	10.1016/S1389-1723(01)80134-1
2001	Maximization of acetic acid production in partial acidogenesis of swine wastewater	10.1002/bit.10068
1997	Production of biodegradable thermoplastics from municipal sludge by a two-stage bioprocess	10.1016/S0921-3449(96)01157-3