

# CITATION REPORT

List of articles citing

**Biohydrogen production: prospects and limitations to practical application**

**DOI: 10.1016/s0360-3199(03)00094-6**

**International Journal of Hydrogen Energy, 2004, 29, 173-185.**

**Source:** <https://exaly.com/paper-pdf/37065711/citation-report.pdf>

**Version:** 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1201	Improvement of fermentative hydrogen production: various approaches. <b>2004</b> , 65, 520-9		377
1200	Operation strategies for biohydrogen production with a high-rate anaerobic granular sludge bed bioreactor. <b>2004</b> , 35, 605-612		72
1199	Approaches to developing biological H <sub>2</sub> -photoproducing organisms and processes. <b>2005</b> , 33, 70-2		86
1198	Fermentative hydrogen production with CGS5 isolated from anaerobic sewage sludge. <i>International Journal of Hydrogen Energy</i> , <b>2005</b> , 30, 1063-1070	6.7	298
1197	Biohydrogen production with anaerobic sludge immobilized by ethylene-vinyl acetate copolymer. <i>International Journal of Hydrogen Energy</i> , <b>2005</b> , 30, 1375-1381	6.7	84
1196	Fed batch production of hydrogen from palm oil mill effluent using anaerobic microflora. <i>International Journal of Hydrogen Energy</i> , <b>2005</b> , 30, 1393-1397	6.7	88
1195	Optimization of glutamate concentration and pH for H <sub>2</sub> production from volatile fatty acids by <i>Rhodospseudomonas capsulata</i> . <b>2005</b> , 40, 401-6		27
1194	Effect of inoculum conditioning on hydrogen fermentation and pH effect on bacterial community relevant to hydrogen production. <b>2005</b> , 100, 524-30		125
1193	Monitoring of microbial community structure and succession in the biohydrogen production reactor by denaturing gradient gel electrophoresis (DGGE). <b>2005</b> , 48, 155-62		24
1192	Catalysis and the hydrogen economy. <b>2005</b> , 101, 131-135		136
1191	Enhanced hydrogen production from formic acid by formate hydrogen lyase-overexpressing <i>Escherichia coli</i> strains. <b>2005</b> , 71, 6762-8		180
1190	Biological Hydrogen Production In China: Past, Present and Future. <b>2005</b> , 663		1
1189	Molecular characterization and hydrogen production of a new species of anaerobe. <b>2005</b> , 40, 1929-38		5
1188	In situ electrooxidation of photobiological hydrogen in a photobioelectrochemical fuel cell based on <i>Rhodobacter sphaeroides</i> . <b>2005</b> , 39, 6328-33		97
1187	Current Status of Hydrogen Production Techniques by Steam Reforming of Ethanol: A Review. <b>2005</b> , 19, 2098-2106		1068
1186	Effect of some environmental parameters on fermentative hydrogen production by <i>Enterobacter cloacae</i> DM11. <b>2006</b> , 52, 525-32		77
1185	CO-dependent H <sub>2</sub> evolution by <i>Rhodospirillum rubrum</i> : role of CODH:CooF complex. <b>2006</b> , 1757, 1582-91		42

1184	The role of pH in the fermentative H <sub>2</sub> production from an acidogenic granule-based reactor. <b>2006</b> , 64, 350-8		63
1183	Inhibition of biohydrogen production by ammonia. <b>2006</b> , 40, 1167-72		129
1182	Hydrogen and methane production from household solid waste in the two-stage fermentation process. <b>2006</b> , 40, 2230-6		343
1181	Modeling and optimization of photosynthetic hydrogen gas production by green alga <i>Chlamydomonas reinhardtii</i> in sulfur-deprived circumstance. <b>2006</b> , 22, 431-7		50
1180	Optimization of activation conditions of <i>Rhodobacter sphaeroides</i> in hydrogen generation process. <b>2006</b> , 101, 775-84		16
1179	Fuel gases from organic wastes using membrane bioreactors. <b>2006</b> , 198, 56-66		27
1178	Response surface methodological analysis on biohydrogen production by enriched anaerobic cultures. <b>2006</b> , 38, 905-913		92
1177	Bio-hydrogen production from waste materials. <b>2006</b> , 38, 569-582		1141
1176	An overview of hydrogen production from biomass. <b>2006</b> , 87, 461-472		858
1175	Temperature effects on biohydrogen production in a granular sludge bed induced by activated carbon carriers. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 465-472	6.7	108
1174	Acidophilic biohydrogen production from rice slurry. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 683-692	6.7	255
1173	Sulfate effect on fermentative hydrogen production using anaerobic mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 953-960	6.7	50
1172	Fermentative hydrogen production from xylose using anaerobic mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 832-840	6.7	142
1171	Continuous bio-hydrogen production from citric acid wastewater via facultative anaerobic bacteria. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1306-1313	6.7	103
1170	Improving biohydrogen production in a carrier-induced granular sludge bed by altering physical configuration and agitation pattern of the bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1648-1657	6.7	88
1169	Response to comments on: Fermentative hydrogen production with <i>Clostridium butyricum</i> CGS5 isolated from anaerobic sewage sludge (Int J Hydrogen Energy, 2005;30:1063-1070). <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1799-1801	6.7	9
1168	Fermentative hydrogen production with a draft tube fluidized bed reactor containing silicone-gel-immobilized anaerobic sludge. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 2200-2210	6.7	95
1167	Hydrogen production by <i>Clostridium thermocellum</i> 27405 from cellulosic biomass substrates. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1496-1503	6.7	256

1166	The production of hydrogen by dark fermentation of municipal solid wastes and slaughterhouse waste: A two-phase process. <b>2006</b> , 157, 727-732	92
1165	Effect of substrate concentration on hydrogen production and 16S rDNA-based analysis of the microbial community in a continuous fermenter. <b>2006</b> , 41, 199-207	248
1164	Biohydrogen production from sucrose using base-enriched anaerobic mixed microflora. <b>2006</b> , 41, 915-919	72
1163	Effects of initial cultivation pH on fermentative hydrogen production from xylose using natural mixed cultures. <b>2006</b> , 41, 1383-1390	86
1162	Acidogenesis characteristics of natural, mixed anaerobes converting carbohydrate-rich synthetic wastewater to hydrogen. <b>2006</b> , 41, 1736-1745	37
1161	Enhancing phototropic hydrogen production by solid-carrier assisted fermentation and internal optical-fiber illumination. <b>2006</b> , 41, 2041-2049	88
1160	Effect of hydraulic retention time on biohydrogen production and anaerobic microbial community. <b>2006</b> , 41, 2118-2123	128
1159	Synthesis of transportation fuels from biomass: chemistry, catalysts, and engineering. <b>2006</b> , 106, 4044-98	5998
1158	Improvement of biohydrogen production under decreased partial pressure of H <sub>2</sub> by <i>Enterobacter cloacae</i> . <b>2006</b> , 28, 831-5	73
1157	Bacterial stress enrichment enhances anaerobic hydrogen production in cattle manure sludge. <b>2006</b> , 72, 635-43	95
1156	Effect of substrate loading on hydrogen production during anaerobic fermentation by <i>Clostridium thermocellum</i> 27405. <b>2006</b> , 72, 576-83	73
1155	Enhanced hydrogen production from glucose using ldh- and frd-inactivated <i>Escherichia coli</i> strains. <b>2006</b> , 73, 67-72	115
1154	Potential of renewable hydrogen production for energy supply in Hong Kong. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1401-1412	6.7 192
1153	Biohydrogen production from molasses by anaerobic fermentation with a pilot-scale bioreactor system. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 2147-2157	6.7 306
1152	Fermentative hydrogen production and bacterial community structure in high-rate anaerobic bioreactors containing silicone-immobilized and self-flocculated sludge. <b>2006</b> , 93, 934-46	226
1151	Hydrogen production by fermentation: Review of a new approach to environmentally safe energy production. <b>2006</b> , 9, 39-42	11
1150	Biological Hydrogen Production Using Chloroform-treated Methanogenic Granules. <b>2007</b> , 601-613	
1149	References. 189-198	

1148	Influence of light intensity on hydrogen production by <i>Rhodobacter sphaeroides</i> from swine manure wastewater. <b>2007</b> , 28, 382	
1147	Hydrogen Production Potentials of Glycerol by Anaerobic Mixed Cultures. <b>2007</b> , 30, 535-539	
1146	Development of improved qPCR assay in the presence of bovine serum albumin for the <i>hydA</i> gene of <i>Clostridium</i> sp. from environmental samples. <b>2007</b> , 2007, 2507-2511	
1145	A kinetic approach to anaerobic hydrogen-producing process. <b>2007</b> , 41, 1152-60	114
1144	Process stability and microbial community structure in anaerobic hydrogen-producing microflora from food waste containing kimchi. <b>2007</b> , 131, 300-8	96
1143	Occurrence, classification, and biological function of hydrogenases: an overview. <b>2007</b> , 107, 4206-72	1221
1142	Fermentative Hydrogen Production From Wastewater and Solid Wastes by Mixed Cultures. <b>2007</b> , 37, 1-39	525
1141	Biological Production of Hydrogen from Renewable Resources. <b>2007</b> , 527-557	4
1140	Microorganisms for MEMS. <b>2007</b> , 16, 429-444	18
1139	Bioengineering for pollution prevention through development of biobased energy and materials state of the science report. <b>2007</b> , 3, 218-259	11
1138	Surface characteristics of acidogenic sludge in H <sub>2</sub> -producing process. <b>2007</b> , 5, 1-12	2
1137	. <b>2007</b> ,	158
1136	Agricultural Waste Management in Food Processing. <b>2007</b> , 609-661	2
1135	Developments and constraints in fermentative hydrogen production. <b>2007</b> , 1, 201-214	76
1134	Production of bio-hydrogen by mesophilic anaerobic fermentation in an acid-phase sequencing batch reactor. <b>2007</b> , 96, 421-32	50
1133	The relationship between instability of H <sub>2</sub> production and compositions of bacterial communities within a dark fermentation fluidized-bed bioreactor. <b>2007</b> , 97, 742-58	104
1132	Potential for hydrogen and methane production from biomass residues in Canada. <b>2007</b> , 98, 654-60	67
1131	Feasibility of hydrogen production in thermophilic mixed fermentation by natural anaerobes. <b>2007</b> , 98, 2229-39	50

1130	Universal degenerate oligonucleotide-primed-polymerase chain reaction for detection and amplification of NiFe-hydrogenase genes. <b>2007</b> , 42, 1-5		7
1129	Rheological properties of anaerobic hydrogen-producing flocs. <b>2007</b> , 34, 87-91		14
1128	Enhancement effect of gold nanoparticles on biohydrogen production from artificial wastewater. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 17-23	6.7	136
1127	Influence of gaseous end-products inhibition and nutrient limitations on the growth and hydrogen production by hydrogen-producing fermentative bacterial B49. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 748-754	6.7	64
1126	Continuous hydrogen production by anaerobic mixed microflora using a hollow-fiber microfiltration membrane bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 950-957	6.7	79
1125	Hydrogen production from the fermentation of corn stover biomass pretreated with a steam-explosion process. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 932-939	6.7	264
1124	Integration of fermentative hydrogen process and fuel cell for on-line electricity generation. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 802-808	6.7	45
1123	Characteristics of activation and anti-poisoning in an LmNi <sub>4.8</sub> Al <sub>0.2</sub> hydrogen storage alloy. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 2494-2500	6.7	18
1122	Towards the hydrogen economy?. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 1625-1637	6.7	566
1121	Maximizing renewable hydrogen production from biomass in a bio/catalytic refinery. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 4135-4141	6.7	63
1120	Production of hydrogen in a granular sludge-based anaerobic continuous stirred tank reactor. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 4744-4753	6.7	57
1119	Microbial hydrogen production with <i>Bacillus coagulans</i> IIT-BT S1 isolated from anaerobic sewage sludge. <b>2007</b> , 98, 1183-90		152
1118	Two-phase anaerobic digestion for production of hydrogen-methane mixtures. <b>2007</b> , 98, 2641-51		116
1117	Evaluation and simultaneous optimization of bio-hydrogen production using 32 factorial design and the desirability function. <b>2007</b> , 169, 131-139		40
1116	Batch and continuous fermentative production of hydrogen with anaerobic sludge entrapped in a composite polymeric matrix. <b>2007</b> , 42, 279-284		71
1115	Fermentative production of biofuels with entrapped anaerobic sludge using sequential HRT shifting operation in continuous cultures. <b>2007</b> , 38, 205-213		18
1114	Nitrogen-fixing cyanobacteria: A review. <b>2007</b> , 43, 250-259		48
1113	Cyanobacterial hydrogenases: diversity, regulation and applications. <b>2007</b> , 31, 692-720		264

1112	Importance of rural bioenergy for developing countries. <b>2007</b> , 48, 2386-2398		189
1111	Biological generation of hydrogen. <b>2007</b> , 77, 685-693		10
1110	Formation of extracellular polymeric substances from acidogenic sludge in H <sub>2</sub> -producing process. <b>2007</b> , 74, 208-14		31
1109	Glycolytic pathway and hydrogen yield studies of the extreme thermophile <i>Caldicellulosiruptor saccharolyticus</i> . <b>2007</b> , 74, 1358-67		135
1108	Promoting R & D in photobiological hydrogen production utilizing mariculture-raised cyanobacteria. <b>2007</b> , 9, 128-45		63
1107	Molecular characterization and fermentative hydrogen production of a wild anaerobe in clostridium genus. <b>2007</b> , 1, 403-407		
1106	Continuous dark fermentative hydrogen production by mesophilic microflora: Principles and progress. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 172-184	6.7	520
1105	Feasibility study on fermentative conversion of raw and hydrolyzed starch to hydrogen using anaerobic mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 3849-3859	6.7	48
1104	Comparison of biohydrogen production processes. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 279-286	6.7	381
1103	Effect of HeNe laser irradiation on hydrogen production by <i>Enterobacter aerogenes</i> . <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 34-42	6.7	10
1102	Heavy metal effects on fermentative hydrogen production using natural mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 587-593	6.7	75
1101	Application of Clostridium-specific PCR primers on the analysis of dark fermentation hydrogen-producing bacterial community. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1586-1592	6.7	47
1100	Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 594-601	6.7	67
1099	Start-up strategy for continuous fermentative hydrogen production: Early switchover from batch to continuous operation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1532-1541	6.7	51
1098	Integration of acidogenic and methanogenic processes for simultaneous production of biohydrogen and methane from wastewater treatment. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2156-2166	6.7	105
1097	Fermentative hydrogen production from starch using natural mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2445-2453	6.7	117
1096	Structural and functional aspects of the MSP (PsbO) and study of its differences in thermophilic versus mesophilic organisms. <b>2008</b> , 98, 365-89		17
1095	Fermentative biohydrogen production: trends and perspectives. <b>2008</b> , 7, 27-45		120

1094	Relationship among growth parameters for <i>Clostridium butyricum</i> , <i>hydA</i> gene expression, and biohydrogen production in a sucrose-supplemented batch reactor. <b>2008</b> , 78, 525-32	27
1093	Hydrogen production conditions from food waste by dark fermentation with <i>Clostridium beijerinckii</i> KCTC 1785. <b>2008</b> , 13, 499-504	64
1092	Biological hydrogen production using chloroform-treated methanogenic granules. <b>2008</b> , 148, 83-95	17
1091	Microbial diversity and genomics in aid of bioenergy. <b>2008</b> , 35, 403-419	83
1090	Biohydrogen production by <i>Enterobacter cloacae</i> and <i>Citrobacter freundii</i> in carrier induced granules. <b>2008</b> , 30, 271-4	13
1089	Review: Alternative energy from food processing wastes. <b>2008</b> , 27, 524-537	45
1088	Renewable hydrogen production. <b>2008</b> , 32, 379-407	678
1087	High-efficiency hydrogen production by an anaerobic, thermophilic enrichment culture from an Icelandic hot spring. <b>2008</b> , 101, 665-78	51
1086	Biological hydrogen production by immobilized cells of <i>Clostridium tyrobutyricum</i> JM1 isolated from a food waste treatment process. <b>2008</b> , 99, 6666-72	114
1085	Effect of substrate loading rate of chemical wastewater on fermentative biohydrogen production in biofilm configured sequencing batch reactor. <b>2008</b> , 99, 6941-8	47
1084	Effect of cultivation temperature on fermentative hydrogen production from xylose by a mixed culture. <b>2008</b> , 32, 1109-1115	35
1083	Fermentative H <sub>2</sub> production in an upflow anaerobic sludge blanket reactor at various pH values. <b>2008</b> , 99, 1353-8	66
1082	Optimization of key process variables for enhanced hydrogen production by <i>Enterobacter aerogenes</i> using statistical methods. <b>2008</b> , 99, 2061-6	122
1081	Statistical optimization of process parameters on biohydrogen production from glucose by <i>Clostridium</i> sp. Fanp2. <b>2008</b> , 99, 3146-54	144
1080	Hydrogen and polyhydroxybutyrate producing abilities of microbes from diverse habitats by dark fermentative process. <b>2008</b> , 99, 5444-51	110
1079	Response of a biohydrogen-producing reactor to the substrate shift from sucrose to lactose. <b>2008</b> , 99, 8344-7	12
1078	Livestock waste-to-bioenergy generation opportunities. <b>2008</b> , 99, 7941-53	430
1077	Biohydrogen as a renewable energy resourceProspects and potentials. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 258-263	6.7 464



1076	Temperature effects on fermentative hydrogen production from xylose using mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 43-50	6.7	116
1075	Hydrogen economy in Taiwan and biohydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 16076-1618	6.7	33
1074	Various hydrogenases and formate-dependent hydrogen production in <i>Citrobacter amalonaticus</i> Y19. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1509-1515	6.7	44
1073	Optimization of hydrogen production by hyperthermophilic eubacteria, <i>Thermotoga maritima</i> and <i>Thermotoga neapolitana</i> in batch fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1483-1488	6.7	74
1072	Molecular monitoring of microbes in a continuous hydrogen-producing system with different hydraulic retention time. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1579-1585	6.7	43
1071	Dark fermentative H <sub>2</sub> production from xylose and lactose: Effects of on-line pH control. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 522-530	6.7	58
1070	Simultaneous biohydrogen production and wastewater treatment in biofilm configured anaerobic periodic discontinuous batch reactor using distillery wastewater. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 550-558	6.7	90
1069	HRT-dependent hydrogen production and bacterial community structure of mixed anaerobic microflora in suspended, granular and immobilized sludge systems using glucose as the carbon substrate. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1542-1549	6.7	89
1068	Photo-biological hydrogen production by the adopted mixed culture: Data enveloping analysis. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 559-569	6.7	23
1067	Thermophilic fermentative hydrogen production by the newly isolated <i>Thermoanaerobacterium thermosaccharolyticum</i> PSU-2. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1204-1214	6.7	208
1066	Biohydrogen production by dark fermentation of wheat powder solution: Effects of C/N and C/P ratio on hydrogen yield and formation rate. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1813-1819	6.7	160
1065	Optimization of hydrogen production in a granule-based UASB reactor. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2454-2461	6.7	57
1064	Enhancement of fermentative hydrogen/ethanol production from cellulose using mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 3660-3667	6.7	70
1063	Biohydrogen production via biocatalyzed electrolysis in acetate-fed bioelectrochemical cells and microbial community analysis. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5184-5192	6.7	112
1062	Combining enzymatic hydrolysis and dark photo fermentation processes for hydrogen production from starch feedstock: A feasibility study. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5224-5233	6.7	72
1061	Optimization of media composition for hydrogen gas production from hydrolyzed wheat starch by dark fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4083-4090	6.7	64
1060	Effect of temperature on anaerobic fermentative hydrogen gas production from feedlot cattle manure using mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4301-4308	6.7	31
1059	Potentialities of hydrogen production in Algeria. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4476-4487	6.7	46

1058	Fermentative hydrogen production in batch experiments using lactose, cheese whey and glucose: Influence of initial substrate concentration and pH. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4989-4997	6.7	163
1057	Fermentative hydrogen production by the new marine <i>Pantoea agglomerans</i> isolated from the mangrove sludge. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6116-6123	6.7	41
1056	Profiling the <i>hydA</i> gene and <i>hydA</i> gene transcript levels of <i>Clostridium butyricum</i> during continuous, mixed-culture hydrogen fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5416-5421	6.7	15
1055	A pilot-scale study of biohydrogen production from distillery effluent using defined bacterial co-culture. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5404-5415	6.7	122
1054	High-rate continuous hydrogen production by <i>Thermoanaerobacterium thermosaccharolyticum</i> PSU-2 immobilized on heat-pretreated methanogenic granules. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6498-6508	6.7	46
1053	16S rRNA-targeted probes for specific detection of <i>Thermoanaerobacterium</i> spp., <i>Thermoanaerobacterium thermosaccharolyticum</i> , and <i>Caldicellulosiruptor</i> spp. by fluorescent in situ hybridization in biohydrogen producing systems. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6003-6007	6.7	25
1052	Self-immobilization of acidogenic mixed consortia on mesoporous material (SBA-15) and activated carbon to enhance fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6133-6142	6.7	56
1051	Advances in biological hydrogen production processes. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6046-6057	6.7	532
1050	Enhanced cellulose-hydrogen production from corn stalk by lesser panda manure. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6058-6065	6.7	86
1049	Hydrogen production during stationary phase in purple photosynthetic bacteria. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6525-6534	6.7	56
1048	Hydrogen production from biopolymers by <i>Caldicellulosiruptor saccharolyticus</i> and stabilization of the system by immobilization. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6953-6961	6.7	45
1047	Biohydrogen production from household solid waste (HSW) at extreme-thermophilic temperature (70°C) Influence of pH and acetate concentration. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6985-6992	6.7	34
1046	Biohydrogen production by <i>Ethanoligenens harbinense</i> B49: Nutrient optimization. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6962-6967	6.7	32
1045	Phototrophic hydrogen production in photobioreactors coupled with solar-energy-excited optical fibers. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6886-6895	6.7	89
1044	Towards the integration of dark and photo fermentative waste treatment. 1. Hydrogen photoproduction by purple bacterium <i>Rhodobacter capsulatus</i> using potential products of starch fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 7020-7026	6.7	39
1043	Effects of pH value and substrate concentration on hydrogen production from the anaerobic fermentation of glucose. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 7413-7418	6.7	52
1042	Hydrogen production using <i>Clostridium saccharoperbutylacetonicum</i> N1-4 (ATCC 13564). <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 7392-7396	6.7	31
1041	Biofuels sources, biofuel policy, biofuel economy and global biofuel projections. <b>2008</b> , 49, 2106-2116		748

1040	Metabolically engineered bacteria for producing hydrogen via fermentation. <b>2008</b> , 1, 107-25		102
1039	Hydrogen as a Fuel. <b>2008</b> , 23-69		4
1038	Biotechnology for Fuels and Chemicals. <b>2008</b> ,		0
1037	Biodiesel. <b>2008</b> ,		19
1036	Thermodynamic evaluation on H <sub>2</sub> production in glucose fermentation. <b>2008</b> , 42, 2401-7		160
1035	Introduction. <b>2008</b> , 1-37		
1034	Dark H <sub>2</sub> fermentation from sucrose and xylose using H <sub>2</sub> -producing indigenous bacteria: feasibility and kinetic studies. <b>2008</b> , 42, 827-42		176
1033	Hydrogen Generation by Water Splitting. <b>2008</b> , 35-113		15
1032	Fermentative hydrogen production by microbial consortium. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4309-4317	6.7	70
1031	Production of Hydrogen from Glucose as a Biomass Simulant: Integrated Biological and Thermochemical Approach. <b>2008</b> , 47, 3645-3651		27
1030	Bioprospecting Thermophilic Microorganisms from Icelandic Hot Springs for Hydrogen and Ethanol Production <b>2008</b> , 22, 134-140		44
1029	Application of the Clustering Hybrid Regression Approach to Model Xylose-Based Fermentative Hydrogen Production <b>2008</b> , 22, 128-133		1
1028	Dark Fermentative Hydrogen Production from Xylose in Different Bioreactors Using Sewage Sludge Microflora. <b>2008</b> , 22, 113-119		44
1027	Bio hydrogen production from kitchen waste. <b>2008</b> , 2, 75		6
1026	Biohydrogen-Generating Capability of Microflora after Prolonged Substrate Limitation. <b>2008</b> , 25, 1439-1446		
1025	Acid pre-treatment of sewage anaerobic sludge to increase hydrogen producing bacteria HPB: effectiveness and reproducibility. <b>2008</b> , 58, 1623-8		19
1024	Significance of acetogenic H <sub>2</sub> consumption in dark fermentation and effectiveness of pH. <b>2008</b> , 57, 809-14		15
1023	Biohydrogen Generation from Organic Waste. <b>2008</b> , 30, 475-482		33

1022	Hydrogen-based Autonomous Power Systems. <b>2008</b> ,	4
1021	Screening for potential fermentative hydrogen production from black water and kitchen waste in on-site UASB reactor at 20 degrees C. <b>2008</b> , 29, 691-9	
1020	Third generation biofuels via direct cellulose fermentation. <b>2008</b> , 9, 1342-60	203
1019	Maximizing hydrogen production by cyanobacteria. <b>2008</b> , 63, 226-32	10
1018	. <b>2009</b> ,	26
1017	H <sub>2</sub> production potential in thermophilic mixed fermentation. <b>2009</b> , 44, 78-86	4
1016	Combined sulphur cycle based system of hydrogen production and biological treatment of wastewater. <b>2009</b> , 30, 1297-304	6
1015	Biohydrogen. <b>2009</b> ,	35
1014	Biogas Production: New Trends for Alternative Energy Sources in Rural and Urban Zones. <b>2009</b> , 32, 1147-1153	74
1013	Enhanced bio-hydrogen production from sweet sorghum stalk with alkalization pretreatment by mixed anaerobic cultures. <b>2009</b> , 34, n/a-n/a	5
1012	Solar hydrogen production and its development in China. <b>2009</b> , 34, 1073-1090	44
1011	Integrating dark and light bio-hydrogen production strategies: towards the hydrogen economy. <b>2009</b> , 8, 149-185	114
1010	Cellulose-hydrogen production from corn stalk biomass by anaerobic fermentation. <b>2009</b> , 54, 1434-1441	6
1009	Biohydrogen production from pig slurry in a CSTR reactor system with mixed cultures under hyper-thermophilic temperature (70 °C). <b>2009</b> , 33, 1168-1174	64
1008	Composition of extracellular polymeric substances influences the autoaggregation capability of hydrogen-producing bacterium <i>Ethanoligenens harbinense</i> . <b>2009</b> , 100, 5109-13	29
1007	Continuous hydrogen and butyric acid fermentation by immobilized <i>Clostridium tyrobutyricum</i> ATCC 25755: effects of the glucose concentration and hydraulic retention time. <b>2009</b> , 100, 5352-5	41
1006	Thermophilic biohydrogen production by an anaerobic heat treated-hot spring culture. <b>2009</b> , 100, 5790-5	45
1005	Hydrogen gas production by electrohydrolysis of volatile fatty acid (VFA) containing dark fermentation effluent. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 262-269	6.7 47

1004	Biohydrogen production by dark fermentation: Experiences of continuous operation in large lab scale. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4509-4516	6.7	60
1003	Experimental kinetics and dynamics of hydrogen production on glucose by hydrogen forming bacteria (HFB) culture. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 753-763	6.7	12
1002	Biohydrogen production by <i>Clostridium butyricum</i> EB6 from palm oil mill effluent. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 764-771	6.7	134
1001	Hydrogen production characteristics of the organic fraction of municipal solid wastes by anaerobic mixed culture fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 812-820	6.7	160
1000	Effluents with soluble metabolites generated from acidogenic and methanogenic processes as substrate for additional hydrogen production through photo-biological process. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1771-1779	6.7	40
999	Effect of iron concentration on continuous H <sub>2</sub> production using membrane bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1244-1252	6.7	63
998	Inoculum type response to different pHs on biohydrogen production from l-arabinose, a component of hemicellulosic biopolymers. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1744-1751	6.7	38
997	Improving hydrogen production from cassava starch by combination of dark and photo fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1780-1786	6.7	138
996	Relationship between molecular hydrogen production, proton transport and the F <sub>0</sub> F <sub>1</sub> -ATPase activity in <i>Rhodobacter sphaeroides</i> strains from mineral springs. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2567-2572	6.7	31
995	Continuous biohydrogen production using cheese whey: Improving the hydrogen production rate. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4296-4304	6.7	136
994	Photo-hydrogen production rate of a PVA-boric acid gel granule containing immobilized photosynthetic bacteria cells. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4708-4717	6.7	79
993	Continuous fermentative hydrogen production from cheese whey wastewater under thermophilic anaerobic conditions. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7441-7447	6.7	155
992	Optimization and microbial community analysis for production of biohydrogen from palm oil mill effluent by thermophilic fermentative process. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7448-7459	6.7	91
991	Harnessing of biohydrogen from wastewater treatment using mixed fermentative consortia: Process evaluation towards optimization?. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7460-7474	6.7	147
990	Isolation of anoxygenic photosynthetic bacteria from Songkhla Lake for use in a two-staged biohydrogen production process from palm oil mill effluent. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7523-7529	6.7	29
989	Metabolic pathway engineering for enhanced biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7404-7416	6.7	194
988	Challenges for biohydrogen production via direct lignocellulose fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7390-7403	6.7	78
987	Acetate and butyrate as substrates for hydrogen production through photo-fermentation: Process optimization and combined performance evaluation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7513-7522	6.7	53

986	Fermentative hydrogen production from hydrolyzed cellulosic feedstock prepared with a thermophilic anaerobic bacterial isolate. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 6189-6200	6.7	31
985	Novel dark fermentation involving bioaugmentation with constructed bacterial consortium for enhanced biohydrogen production from pretreated sewage sludge. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7489-7496	6.7	62
984	Clostridium strain co-cultures for biohydrogen production enhancement from condensed molasses fermentation solubles. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7173-7181	6.7	51
983	Fermentative hydrogen production by two novel strains of <i>Enterobacter aerogenes</i> HGN-2 and HT 34 isolated from sea buried crude oil pipelines. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7197-7207	6.7	34
982	Photo-bioproduction of hydrogen by <i>Chlamydomonas reinhardtii</i> using a semi-continuous process regime. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7592-7602	6.7	48
981	Comparative assessment of decoupling of biomass and hydraulic retention times in hydrogen production bioreactors. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7603-7611	6.7	34
980	The effect of irradiance growing on hydrogen photoevolution and on the kinetic growth in <i>Rhodospseudomonas palustris</i> , strain 42OL. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7949-7958	6.7	12
979	Effects of pH, glucose and iron sulfate concentration on the yield of biohydrogen by <i>Clostridium butyricum</i> EB6. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 8859-8865	6.7	51
978	Combination of dark- and photo-fermentation to enhance hydrogen production and energy conversion efficiency. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 8846-8853	6.7	130
977	Research on photocatalytic H <sub>2</sub> production from acetic acid solution by Pt/TiO <sub>2</sub> nanoparticles under UV irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9033-9041	6.7	133
976	Enhancement of phototrophic hydrogen production by <i>Rhodobacter sphaeroides</i> ZX-5 using a novel strategy shaking and extra-light supplementation approach. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9677-9685	6.7	60
975	Effect of pH and sulfate concentration on hydrogen production using anaerobic mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9702-9710	6.7	58
974	Enrichment of the hydrogen-producing microbial community from marine intertidal sludge by different pretreatment methods. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9696-9701	6.7	57
973	Bio-hydrogen production from waste fermentation: Mixing and static conditions. <b>2009</b> , 34, 970-975		48
972	Hydrogen production by fermentative consortia. <b>2009</b> , 13, 1000-1013		259
971	An overview of hydrogen production technologies. <b>2009</b> , 139, 244-260		2094
970	Hydrogen fermentation of food waste without inoculum addition. <b>2009</b> , 45, 181-187		135
969	Semi-continuous biohydrogen production as an approach to generate electricity. <b>2009</b> , 100, 6369-77		19

968	Hydrogen production with effluent from an ethanol-H <sub>2</sub> -coproducing fermentation reactor using a single-chamber microbial electrolysis cell. <b>2009</b> , 24, 3055-60	171
967	Protein engineering of the transcriptional activator FhlA To enhance hydrogen production in Escherichia coli. <b>2009</b> , 75, 5639-46	28
966	Fate of H <sub>2</sub> in an upflow single-chamber microbial electrolysis cell using a metal-catalyst-free cathode. <b>2009</b> , 43, 7971-6	169
965	Biofuels. <b>2009</b> ,	1
964	FUELS  HYDROGEN PRODUCTION   Biomass: Fermentation. <b>2009</b> , 268-275	1
963	Energy from Organic Waste: Influence of the Process Parameters on the Production of Methane and Hydrogen. 271-285	2
962	Heterotrophic Photo Fermentative Hydrogen Production. <b>2009</b> , 39, 1081-1108	31
961	Production of Hydrogen via Biological Processes. <b>2009</b> , 31, 1802-1812	12
960	Hydrogen production from renewable sources: biomass and photocatalytic opportunities. <b>2009</b> , 2, 35-54	321
959	Biohydrogen production in integrated system. <b>2010</b> , 14, 116-118	6
958	A Bacterial Hydrogen Production Test System for Measuring H <sub>2</sub> Concentrations in Liquids and Gases. <b>2010</b> , 47, 60-68	
957	Influence of temperature and duration of heat treatment used for anaerobic seed sludge on biohydrogen fermentation. <b>2010</b> , 14, 141-147	9
956	Biohydrogen production from sewage sludge using a continuous hydrogen fermentation system with a heat treatment vessel. <b>2010</b> , 14, 673-679	2
955	Characterization of hydrogen production by engineered Escherichia coli strains using rich defined media. <b>2010</b> , 15, 686-695	26
954	The effect of pH on continuous biohydrogen production from swine wastewater supplemented with glucose. <b>2010</b> , 162, 1286-96	13
953	Hydrogen production from wastewater using a microbial electrolysis cell. <b>2010</b> , 27, 1854-1859	17
952	Biohydrogen production with anaerobic sludge immobilized by granular activated carbon in a continuous stirred-tank. <b>2010</b> , 21, 509-513	5
951	Heterologous expression of a hydrogenase gene in Enterobacter aerogenes to enhance hydrogen gas production. <b>2010</b> , 26, 177-181	17

950	Biological hydrogen production: prospects and challenges. <b>2010</b> , 28, 262-71		326
949	Next-generation biofuels: Survey of emerging technologies and sustainability issues. <b>2010</b> , 3, 1106-33		236
948	Photomicrobial Solar and Fuel Cells. <b>2010</b> , 22, 844-855		58
947	Derepressive effect of NH <sub>4</sub> <sup>+</sup> on hydrogen production by deleting the glnA1 gene in <i>Rhodobacter sphaeroides</i> . <b>2010</b> , 106, 564-72		25
946	Development and characteristics of rapidly formed hydrogen-producing granules in an acidic anaerobic sequencing batch reactor (AnSBR). <b>2010</b> , 49, 119-125		22
945	Optimization of conditions for hydrogen production from brewery wastewater by anaerobic sludge using desirability function approach. <b>2010</b> , 35, 1493-1498		66
944	Effect of heat pre-treatment temperature on isolation of hydrogen producing functional consortium from soil. <b>2010</b> , 35, 2649-2655		18
943	Waste-to-energy: A way from renewable energy sources to sustainable development. <b>2010</b> , 14, 3164-3170		257
942	Biological hydrogen production in continuous stirred tank reactor systems with suspended and attached microbial growth. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2807-2813	6.7	47
941	Kinetic analysis of hydrogen production using anaerobic bacteria in reverse micelles. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2926-2930	6.7	4
940	Biohydrogen production from cornstalk wastes by anaerobic fermentation with activated sludge. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 3092-3099	6.7	63
939	An integrated system for hydrogen and methane production during landfill leachate treatment. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 5010-5014	6.7	27
938	Challenges for renewable hydrogen production from biomass. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 4962-4969	6.7	267
937	Influence of solids retention time on continuous H <sub>2</sub> production using membrane bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 52-60	6.7	37
936	Effect of organic loading on a novel hydrogen bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 81-92	6.7	124
935	Characteristics of fermentative hydrogen production with <i>Klebsiella pneumoniae</i> ECU-15 isolated from anaerobic sewage sludge. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 71-80	6.7	62
934	Hydrogen production by <i>Escherichia coli</i> BycA Δcl using cheese whey as substrate. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 491-499	6.7	55
933	Maximizing the solar to H <sub>2</sub> energy conversion efficiency of outdoor photobioreactors using mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 500-510	6.7	31



932	Biohydrogen production by isolated halotolerant photosynthetic bacteria using long-wavelength light-emitting diode (LW-LED). <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 13365-13369	6.7	23
931	Thermophilic bio-energy process study on hydrogen fermentation with vegetable kitchen waste. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 13458-13466	6.7	56
930	Biohydrogen production from purified terephthalic acid (PTA) processing wastewater by anaerobic fermentation using mixed microbial communities. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8350-8356	6.7	30
929	Hydrogen metabolism in the extreme thermophile <i>Thermotoga neapolitana</i> . <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2290-2295	6.7	62
928	A comparison of hydrogen production among three photosynthetic bacterial strains. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7194-7199	6.7	24
927	Influence of pH on fermentative hydrogen production from sweet sorghum extract. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 1921-1928	6.7	59
926	Hydrogen production characteristics from dark fermentation of maltose by an isolated strain F.P 01. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7189-7193	6.7	12
925	Effect of pH on glucose and starch fermentation in batch and sequenced-batch mode with a recently isolated strain of hydrogen-producing <i>Clostridium butyricum</i> CWBI1009. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 3371-3378	6.7	64
924	Biohydrogen production in anaerobic fluidized bed reactors: Effect of support material and hydraulic retention time. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 3379-3388	6.7	80
923	Characterization of hydrogen production by <i>Platymonas Subcordiformis</i> in torus photobioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7200-7205	6.7	29
922	Hydrogen production from agricultural waste by dark fermentation: A review. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10660-10673	6.7	562
921	Microbial hydrogen production from sewage sludge bioaugmented with a constructed microbial consortium. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10653-10659	6.7	32
920	Performance of a groove-type photobioreactor for hydrogen production by immobilized photosynthetic bacteria. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 5284-5292	6.7	59
919	Enhancement of fermentative hydrogen production from green algal biomass of <i>Thermotoga neapolitana</i> by various pretreatment methods. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 13035-13040	6.7	75
918	High biohydrogen yielding <i>Clostridium</i> sp. DMHC-10 isolated from sludge of distillery waste treatment plant. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10639-10644	6.7	43
917	Improved hydrogen production via thermophilic fermentation of corn stover by microwave-assisted acid pretreatment. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8945-8952	6.7	78
916	Scale-up and optimization of biohydrogen production reactor from laboratory-scale to industrial-scale on the basis of computational fluid dynamics simulation. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10960-10966	6.7	31
915	Effect of changing temperature on anaerobic hydrogen production and microbial community composition in an open-mixed culture bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10954-10959	6.7	40

914	Sequential dark photo fermentation and autotrophic microalgal growth for high-yield and CO <sub>2</sub> -free biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10944-10953	6.7	72
913	Renewable carbohydrates are a potential high-density hydrogen carrier. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10334-10342	6.7	57
912	Hydrogen gas production from electrohydrolysis of industrial wastewater organics by using photovoltaic cells (PVC)?. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12761-12766	6.7	30
911	Growth characteristics and hydrogen production by <i>Rhodobacter sphaeroides</i> using various amino acids as nitrogen sources and their combinations with carbon sources. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12201-12207	6.7	37
910	Estimation of hydrogen production in genetically modified <i>E. coli</i> fermentations using an artificial neural network. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 13186-13192	6.7	54
909	Characteristics of a biofilm photobioreactor as applied to photo-hydrogen production. <b>2010</b> , 101, 977-83		88
908	Effect of key factors on hydrogen production from cellulose in a co-culture of <i>Clostridium thermocellum</i> and <i>Clostridium thermopalmarium</i> . <b>2010</b> , 101, 4029-33		101
907	The effect of the surface charge of hydrogel supports on thermophilic biohydrogen production. <b>2010</b> , 101, 4386-94		27
906	Investigation of the effect of culture type on biological hydrogen production from sugar industry wastes. <b>2010</b> , 30, 792-8		15
905	Application of exergy balances for evaluation of process configurations for biological hydrogen production. <b>2010</b> , 30, 70-76		24
904	Hydrogen production from glucose-containing wastewater using an anaerobic sequencing batch reactor: Effects of COD loading rate, nitrogen content, and organic acid composition. <b>2010</b> , 160, 322-332		32
903	Continuous H <sub>2</sub> and CH <sub>4</sub> production from high-solid food waste in the two-stage thermophilic fermentation process with the recirculation of digester sludge. <b>2010</b> , 101 Suppl 1, S42-7		185
902	Hydrogen production of the hyperthermophilic eubacterium, <i>Thermotoga neapolitana</i> under N <sub>2</sub> sparging condition. <b>2010</b> , 101 Suppl 1, S38-41		71
901	Effects of sludge pretreatments and organic acids on hydrogen production by anaerobic fermentation. <b>2010</b> , 101, 8731-5		31
900	Engineered heat treated methanogenic granules: a promising biotechnological approach for extreme thermophilic biohydrogen production. <b>2010</b> , 101, 9577-86		46
899	Reprint of: Solar hydrogen production and its development in China. <b>2010</b> , 35, 4421-4438		21
898	Potential to produce biohydrogen from various wastewaters. <b>2010</b> , 14, 143-148		88
897	A cell-free microtiter plate screen for improved [FeFe] hydrogenases. <b>2010</b> , 5, e10554		41

- 896 A New Development in Biological Process for Wastewater Treatment to Produce Renewable Fuel. **2010**, 7, 1400-1405 3
- 895 The Substrate Concentration Effects on Biohydrogen Production in Continuous Stirred Tank Reactor. **2010**, 113-116, 2062-2066
- 894 Growth and Hydrogen Production Characteristics of HPB B49. **2010**, 156-157, 1444-1449
- 893 Characterization and Phylogenetics of a New Species of High Efficient Biohydrogen Production Anaerobic Bacterium. **2010**, 113-116, 311-316
- 892 The Molecular Characterization and Fermentative Hydrogen Production of a Wild Anaerobe in Clostridium Genus. **2010**, 113-116, 1890-1895
- 891 Hydrogen: A future energy vector for sustainable development. **2010**, 224, 539-558 46
- 890 . **2010**,
- 889 Biohydrogen production from biomass and molasses wastewater by anaerobic fermentation in continuous stirred-tank reactor. **2010**,
- 888 Integrated membrane/PSA systems for hydrogen recovery from gas mixtures. **2010**, 14, 119-126 7
- 887 Exploitation of the extremely thermophilic *Caldicellulosiruptor saccharolyticus* in hydrogen and biogas production from biomasses. **2010**, 31, 1017-24 23
- 886 A Two-Stage Fermentation Process Converting Waste and Wastewater to Hydrogen and Methane. **2010**, 345-363 1
- 885 Challenges in developing biohydrogen as a sustainable energy source: implications for a research agenda. **2010**, 44, 2243-54 139
- 884 Perspectives for the Production of Bioethanol from Lignocellulosic Materials. **2010**, 24, 529-546 12
- 883 The three-dimensional structure of [NiFeSe] hydrogenase from *Desulfovibrio vulgaris* Hildenborough: a hydrogenase without a bridging ligand in the active site in its oxidised, "as-isolated" state. **2010**, 396, 893-907 103
- 882 A framework for visible-light water splitting. **2010**, 3, 1865 168
- 881 Algal Hydrogen Production. **2010**, 1
- 880 Hydrogenases and Alternative Energy Strategies. **2010**, 213
- 879 Biohydrogen production using dark and photo fermentation: A mini review. **2011**, 1

878	Continuous Pro-Hydrogen by Anaerobic Fermentation of Municipal Sludge. <b>2011</b> , 8, 130-145	17
877	Hydrogen Production via Thermophilic Fermentation of Cornstalk by <i>Clostridium thermocellum</i> . <b>2011</b> , 25, 1714-1720	45
876	Anaerobic Biohydrogen Production by the Mixed Culture with Mesoporous Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Activation. <b>2011</b> , 306-307, 1528-1531	5
875	Production of Biohydrogen: Current Perspectives and Future Prospects. <b>2011</b> , 467-479	10
874	Biohydrogen Production with High-Rate Bioreactors. <b>2011</b> , 537-567	2
873	Biohydrogen. <b>2011</b> , 115-125	3
872	Catalytic hydrogenation of carboxamides and esters by well-defined Cp*Ru complexes bearing a protic amine ligand. <b>2011</b> , 133, 4240-2	179
871	Production of biohydrogen by heterologous expression of oxygen-tolerant <i>Hydrogenovibrio marinus</i> [NiFe]-hydrogenase in <i>Escherichia coli</i> . <b>2011</b> , 155, 312-9	24
870	Biohydrogen Production from Agricultural Agrofood-Based Resources. <b>2011</b> , 629-641	1
869	Biofuels and biomaterials from microbes. 315-335	
868	Composite Nanomaterials for Hydrogen Technologies. <b>2011</b> ,	
867	What is vital (and not vital) to advance economically-competitive biofuels production. <b>2011</b> , 46, 2091-2110	89
866	Effects of various pretreatment methods on mixed microflora to enhance biohydrogen production from corn stover hydrolysate. <b>2011</b> , 23, 1929-36	33
865	Hydrogenases as catalysts for fuel cells: Strategies for efficient immobilization at electrode interfaces. <b>2011</b> , 56, 10385-10397	88
864	Recent advances in production of hydrogen from biomass. <b>2011</b> , 52, 1778-1789	246
863	Two-stage anaerobic process for bio-hydrogen and bio-methane combined production from biodegradable solid wastes. <b>2011</b> , 37, 94-94	13
862	Electrochemical mass transfer and entropy generation of cuprous chloride electrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 11345-11352	6.7 10
861	Single and combined effect of various pretreatment methods for biohydrogen production from food waste. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 11379-11387	6.7 130

860	Constructing a new business model for fermentative hydrogen production from wastewater treatment. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 13914-13921	6.7	18
859	Enhanced biohydrogen production from tofu residue by acid/base pretreatment and sewage sludge addition. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 13922-13927	6.7	34
858	Market and patent analysis of commercializing biohydrogen technology. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14049-14058	6.7	8
857	Biohydrogen production behavior of moderately thermophile <i>Thermoanaerobacterium thermosaccharolyticum</i> W16 under different gas-phase conditions. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14041-14048	6.7	25
856	Thermophilic hydrogen fermentation using <i>Thermotoga neapolitana</i> DSM 4359 by fed-batch culture. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14014-14023	6.7	15
855	Oleaginous yeast <i>Cryptococcus curvatus</i> culture with dark fermentation hydrogen production effluent as feedstock for microbial lipid production. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 9542-9550	6.7	90
854	Optimization of key factors affecting hydrogen production from food waste by anaerobic mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14120-14133	6.7	77
853	Hydrogen production by the anaerobic fermentation from acid hydrolyzed rice straw hydrolysate. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14280-14288	6.7	62
852	Enhancing the performance of pilot-scale fermentative hydrogen production by proper combinations of HRT and substrate concentration. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14289-14294	6.7	28
851	Bubble behavior and photo-hydrogen production performance of photosynthetic bacteria in microchannel photobioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14111-14119	6.7	13
850	Biohydrogen production from sago starch in wastewater using an enriched thermophilic mixed culture from hot spring. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14162-14171	6.7	26
849	Biohydrogen development in United States and in China: An input/output model study. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14238-14244	6.7	10
848	Design of a new biosensor for algal H <sub>2</sub> production based on the H <sub>2</sub> -sensing system of <i>Rhodobacter capsulatus</i> . <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 11229-11237	6.7	28
847	Introducing pyruvate oxidase into the chloroplast of <i>Chlamydomonas reinhardtii</i> increases oxygen consumption and promotes hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 10648-10654	6.7	20
846	Natural inducement of hydrogen from food waste by temperature control. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 10666-10673	6.7	35
845	Fermentative hydrogen production with xylose by <i>Clostridium</i> and <i>Klebsiella</i> species in anaerobic batch reactors. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 13508-13517	6.7	40
844	Hydrogen production from acid hydrolyzed molasses by the hydrogen overproducing <i>Escherichia coli</i> strain HD701 and subsequent use of the waste bacterial biomass for biosorption of Cd(II) and Zn(II). <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14381-14390	6.7	29
843	Comparative analysis of thermophilic immobilized biohydrogen production using packed materials of ceramic ring and pumice stone. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 15160-15167	6.7	38

842	Biohydrogen production in alkalithermophilic conditions: Thermobrachium celere as a case study. <b>2011</b> , 102, 8714-22	21
841	Application of molecular techniques on heterotrophic hydrogen production research. <b>2011</b> , 102, 8445-56	15
840	Roles of microorganisms other than Clostridium and Enterobacter in anaerobic fermentative biohydrogen production systems--a review. <b>2011</b> , 102, 8437-44	140
839	Hydrodynamic behaviors in fermentative hydrogen bioreactors by pressure fluctuation analysis. <b>2011</b> , 102, 8669-75	14
838	Physicochemical characteristics of anaerobic H <sub>2</sub> -producing granular sludge. <b>2011</b> , 102, 8653-60	20
837	Hydrogenases for biological hydrogen production. <b>2011</b> , 102, 8423-31	146
836	Two stage anaerobic baffled reactors for bio-hydrogen production from municipal food waste. <b>2011</b> , 102, 8723-6	52
835	Effect of initial pH independent of operational pH on hydrogen fermentation of food waste. <b>2011</b> , 102, 8646-52	94
834	Bioreactor design for continuous dark fermentative hydrogen production. <b>2011</b> , 102, 8612-20	143
833	Characterization of cellulolytic enzymes and bioH <sub>2</sub> production from anaerobic thermophilic Clostridium sp. TCW1. <b>2011</b> , 102, 8384-92	25
832	Material and energy balances of an integrated biological hydrogen production and purification system and their implications for its potential to reduce greenhouse gas emissions. <b>2011</b> , 102, 8550-6	8
831	Current status of the metabolic engineering of microorganisms for biohydrogen production. <b>2011</b> , 102, 8357-67	116
830	Enhancement of photo-hydrogen production in a biofilm photobioreactor using optical fiber with additional rough surface. <b>2011</b> , 102, 8507-13	52
829	Sewage sludge addition to food waste synergistically enhances hydrogen fermentation performance. <b>2011</b> , 102, 8501-6	92
828	Looking for practical tools to achieve next-future applicability of dark fermentation to produce bio-hydrogen from organic materials in Continuously Stirred Tank Reactors. <b>2011</b> , 102, 7910-6	8
827	The effect of temperature and effluent recycle rate on hydrogen production by undefined bacterial granules. <b>2011</b> , 102, 8986-91	10
826	Cyanobacteria and microalgae: a positive prospect for biofuels. <b>2011</b> , 102, 10163-72	396
825	From wastewater to bioenergy and biochemicals via two-stage bioconversion processes: a future paradigm. <b>2011</b> , 29, 972-82	116

824	Biohydrogen production and bioprocess enhancement: a review. <b>2011</b> , 31, 250-63		47
823	Whole-cell based hybrid materials for green energy production, environmental remediation and smart cell-therapy. <b>2011</b> , 40, 860-85		108
822	Biohydrogen production from anaerobic fermentation. <b>2012</b> , 128, 143-63		2
821	Thermophilic, anaerobic co-digestion of microalgal biomass and cellulose for H <sub>2</sub> production. <b>2011</b> , 22, 805-14		60
820	Bioenergy from anaerobic degradation of lipids in palm oil mill effluent. <b>2011</b> , 10, 353-376		49
819	Effects of feedstocks on the process integration of biohydrogen production. <b>2011</b> , 13, 547-558		17
818	Proton motive force in <i>Rhodobacter sphaeroides</i> under anaerobic conditions in the dark. <b>2011</b> , 62, 415-9		10
817	Effects of light/dark cycle, mixing pattern and partial pressure of H <sub>2</sub> on biohydrogen production by <i>Rhodobacter sphaeroides</i> ZX-5. <b>2011</b> , 102, 1142-8		45
816	Bioconversion of wheat stalk to hydrogen by dark fermentation: effect of different mixed microflora on hydrogen yield and cellulose solubilisation. <b>2011</b> , 102, 3805-9		53
815	Effects of heat treatment on hydrogen production potential and microbial community of thermophilic compost enrichment cultures. <b>2011</b> , 102, 4501-6		27
814	Biogenic hydrogen and methane production from reed canary grass. <b>2011</b> , 35, 773-780		43
813	The buffer composition impacts the hydrogen production and the microbial community composition in non-axenic cultures. <b>2011</b> , 35, 3174-3181		42
812	Interactions between <i>Clostridium</i> sp. and other facultative anaerobes in a self-formed granular sludge hydrogen-producing bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8704-8711	6.7	49
811	Continuous hydrogen production from tofu processing waste using anaerobic mixed microflora under thermophilic conditions. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8712-8718	6.7	60
810	Hydrogen production using sono-biohydrogenator. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 1456-1465	6.7	21
809	A pilot-scale high-rate biohydrogen production system with mixed microflora. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8758-8764	6.7	77
808	Biohydrogen production using green microalgae as an approach to operate a small proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 4089-4093	6.7	20
807	Anaerobic H <sub>2</sub> production at elevated temperature (60 °C) by enriched mixed consortia from mesophilic sources. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 458-465	6.7	15

806	Bio-hydrogen behavior of suspended and attached microorganisms in anaerobic fluidized bed. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8800-8808	6.7	5
805	Thermophilic hydrogen production from cellulose with rumen fluid enrichment cultures: Effects of different heat treatments. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 1482-1490	6.7	31
804	Revivability of fermentative hydrogen producing bioreactors. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2086-2092	6.7	8
803	High-yield biohydrogen production from biodiesel manufacturing waste by <i>Thermotoga neapolitana</i> . <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5836-5842	6.7	76
802	Hydrogen gas production from waste anaerobic sludge by electrohydrolysis: Effects of applied DC voltage. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2049-2056	6.7	29
801	Ultrasonication for biohydrogen production from food waste. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2896-2903	6.7	46
800	Comparison of different electrodes in hydrogen gas production from electrohydrolysis of wastewater organics using photovoltaic cells (PVC)?. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3450-3456	6.7	26
799	Hydrogen gas production from olive mill wastewater by electrohydrolysis with simultaneous COD removal. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3457-3464	6.7	26
798	Imperative role of neural networks coupled genetic algorithm on optimization of biohydrogen yield. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 4332-4339	6.7	43
797	Effect of substrate concentration on fermentative hydrogen production from sweet sorghum extract. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 4843-4851	6.7	45
796	Enhanced hydrogen production by means of sulfur-deprived <i>Chlamydomonas reinhardtii</i> cultures grown in pretreated olive mill wastewater. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5920-5931	6.7	46
795	Closing the 1,3-propanediol route enhances hydrogen production from glycerol by <i>Halanaerobium saccharolyticum</i> subsp. <i>saccharolyticum</i> . <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7074-7080	6.7	12
794	Bio-hydrogen production by different operational modes of dark and photo-fermentation: An overview. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7443-7459	6.7	270
793	Hydrogenase activity monitoring in the fermentative hydrogen production using heat pretreated sludge: A useful approach to evaluate bacterial communities performance. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7543-7549	6.7	30
792	Electrohydrolysis of landfill leachate organics for hydrogen gas production and COD removal. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8252-8260	6.7	24
791	Hydrogen production from soft-drink wastewater in an upflow anaerobic packed-bed reactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8953-8966	6.7	76
790	Halophilic anaerobic fermentative bacteria. <b>2011</b> , 152, 114-24		37
789	Improvement of biohydrogen production by <i>Enterobacter cloacae</i> IIT-BT 08 under regulated pH. <b>2011</b> , 152, 9-15		71



788	Bio-hydrogen production from cornstalk wastes by orthogonal design method. <b>2011</b> , 36, 709-713	49
787	Distributed hydrogen production from ethanol in a microfuel processor: Issues and challenges. <b>2011</b> , 15, 524-533	32
786	Microbiological processes for waste conversion to bioenergy products: Approaches and directions. <b>2011</b> , 19, 214-237	4
785	Modular Waste/Renewable Energy System for Production of Electricity, Heat, and Potable Water in Remote Locations. <b>2011</b> ,	0
784	Effects of Substrate Concentration and pH on H <sub>2</sub> -Producing Capacity with <i>Clostridium</i> R33 sp.nov.. <b>2011</b> , 183-185, 891-894	
783	Biological and fermentative production of hydrogen. <b>2011</b> , 305-346	8
782	Improvement of Anaerobic Operation and Isolation Culture on Hydrogen-Producing and Fermentative Bacteria. <b>2011</b> , 183-185, 895-899	
781	Analysis of Acidic End Products and Molecular Characterization of Biohydrogenbacterium R3 sp.nov. <b>2011</b> , 183-185, 27-30	
780	Effect of Pre-Treatment Palm Oil Mill Effluent POME on Biohydrogen Production by Local Isolate <i>Clostridium</i> Butyricum. <b>2011</b> , 236-238, 2987-2992	4
779	Microbial paths to renewable hydrogen production. <b>2011</b> , 2, 285-302	68
778	References. <b>2012</b> , 435-482	
777	Hydrogen photoproduction by <i>Rhodospseudomonas palustris</i> 42OL cultured at high irradiance under a semicontinuous regime. <b>2012</b> , 2012, 590693	11
776	Metabolic pathways of hydrogen production in fermentative acidogenic microflora. <b>2012</b> , 22, 668-73	10
775	Biohydrogen Production with Different Ratios of Kitchen Waste and Inoculum in Lab Scale Batch Reactor at Moderate Temperatures. <b>2012</b> , 213-216	2
774	14 Trends driving microalgae-based fuels into economical production.	
773	Anthrahydroquinone-2,6-disulfonate increases the rate of hydrogen production during <i>Clostridium beijerinckii</i> fermentation with glucose, xylose, and cellobiose. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 11701-11709	6.7 19
772	Comparison of various pretreatment methods for biohydrogen production from cornstalk. <b>2012</b> , 35, 1239-45	12
771	Feasibility Study of Gas Separation Membranes for Biohydrogen Separation. <b>2012</b> , 44, 976-979	1

770 . 2012,

- 769 Continuous hydrogen production by immobilized cultures of *Thermotoga neapolitana* on an acrylic hydrogel with pH-buffering properties. **2012**, 2, 3611 19
- 768 Enhancing biological hydrogen production through complementary microbial metabolisms. *International Journal of Hydrogen Energy*, **2012**, 37, 10590-10603 6.7 66
- 767 Co-culture of *Clostridium thermocellum* and *Clostridium thermosaccharolyticum* for enhancing hydrogen production via thermophilic fermentation of cornstalk waste. *International Journal of Hydrogen Energy*, **2012**, 37, 10648-10654 6.7 70
- 766 Construction of hydrogen fermentation from garbage slurry using the membrane free bioelectrochemical system. **2012**, 114, 64-9 11
- 765 Production of hydrogen from renewable resources and its effectiveness. *International Journal of Hydrogen Energy*, **2012**, 37, 11563-11578 6.7 205
- 764 Biodegradation of Herbicide Propanil and Its Subproduct 3,4-Dichloroaniline in Water. **2012**, 40, 958-964 12
- 763 Reversible oxygen-tolerant hydrogenase carried by free-living N<sub>2</sub>-fixing bacteria isolated from the rhizospheres of rice, maize, and wheat. **2012**, 1, 349-61 3
- 762 Hydrogen Production: Light-Driven Processes [Green Algae. **2012**, 29-51 3
- 761 Hydrogen Fundamentals. **2012**, 11-79
- 760 Statistical optimization of biohydrogen and ethanol production from crude glycerol by microbial mixed culture. *International Journal of Hydrogen Energy*, **2012**, 37, 16479-16488 6.7 62
- 759 Long-term operation stability tests of intermediate and high temperature Ni-based anodes' SOFCs directly fueled with simulated biogas mixtures. *International Journal of Hydrogen Energy*, **2012**, 37, 16680-16685 6.7 45
- 758 Enhancing the performance of dark fermentative hydrogen production using a reduced pressure fermentation strategy. *International Journal of Hydrogen Energy*, **2012**, 37, 15556-15562 6.7 56
- 757 Fermentative hydrogen production by *Clostridium butyricum* CGS5 using carbohydrate-rich microalgal biomass as feedstock. *International Journal of Hydrogen Energy*, **2012**, 37, 15458-15464 6.7 93
- 756 Influence of impurities on hydrogen absorption in a metal hydride reactor. *International Journal of Hydrogen Energy*, **2012**, 37, 13843-13848 6.7 39
- 755 Toward the clean production of hydrogen: Competition among renewable energy sources and nuclear power. *International Journal of Hydrogen Energy*, **2012**, 37, 15726-15735 6.7 33
- 754 Simultaneous hydrogen gas formation and COD removal from cheese whey wastewater by electrohydrolysis. *International Journal of Hydrogen Energy*, **2012**, 37, 11656-11665 6.7 17
- 753 Techno-economic evaluation of biohydrogen production from wastewater and agricultural waste. *International Journal of Hydrogen Energy*, **2012**, 37, 15704-15710 6.7 61

752	Hydrogen production by the thermophilic eubacterium <i>Thermotoga neapolitana</i> from storage polysaccharides of the CO <sub>2</sub> -fixing diatom <i>Thalassiosira weissflogii</i> . <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 12250-12257	6.7	22
751	Innovative CO <sub>2</sub> pretreatment for enhancing biohydrogen production from the organic fraction of municipal solid waste (OFMSW). <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 14062-14071	6.7	23
750	Effect of fermentation conditions on biohydrogen production from lipid-rich food material. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15062-15069	6.7	8
749	Hydrogen supersaturation in thermophilic mixed culture fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 17809-17816	6.7	46
748	Characteristics and potential of micro algal cultivation strategies: a review. <b>2012</b> , 37, 377-388		92
747	Hydrogenic and methanogenic fermentation of birch and conifer pulps. <b>2012</b> , 100, 58-65		33
746	Microalgal biohydrogen production considering light energy and mixing time as the two key features for scale-up. <b>2012</b> , 121, 228-34		47
745	Effects of Hydrogen Partial Pressure on Fermentative Biohydrogen Production by a Chemotropic Clostridium Bacterium in a New Horizontal Rotating Cylinder Reactor. <b>2012</b> , 29, 34-41		14
744	Gas biofuels from solid substrate hydrogenogenicmethanogenic fermentation of the organic fraction of municipal solid waste. <b>2012</b> , 47, 1572-1587		46
743	Effects of Heat Treatment and Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> ) on the Physicochemical and Rheological Behavior of an Activated Sludge from a Water Purification Plant. <b>2012</b> , 33, 293-302		16
742	An overview of hydrogen gas production from solar energy. <b>2012</b> , 16, 6782-6792		128
741	Microbial Technologies in Advanced Biofuels Production. <b>2012</b> ,		17
740	Hydrogen and methane production, energy recovery, and organic matter removal from effluents in a two-stage fermentative process. <b>2012</b> , 168, 651-71		44
739	Biotechnology in China III: Biofuels and Bioenergy. <b>2012</b> ,		4
738	Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives. <b>2012</b> ,		2
737	Linking genome content to biofuel production yields: a meta-analysis of major catabolic pathways among select H <sub>2</sub> and ethanol-producing bacteria. <b>2012</b> , 12, 295		53
736	Process intensification strategies and membrane engineering. <b>2012</b> , 14, 1561		84
735	Biohydrogen production from glucose, molasses and cheese whey by suspended and attached cells of four hyperthermophilic <i>Thermotoga</i> strains. <b>2012</b> , 87, 1291-1301		38

734	Dark fermentation of hydrogen from waste glycerol using hyperthermophilic eubacterium <i>Thermotoga neapolitana</i> . <b>2012</b> , 31, 466-473		20
733	A review on biomass-based hydrogen production and potential applications. <b>2012</b> , 36, 415-455		72
732	A versatile method for preparation of hydrated microbial-latex biocatalytic coatings for gas absorption and gas evolution. <b>2012</b> , 39, 1269-78		21
731	Hydrogenolyse goes Bio: Von Kohlenhydraten und Zuckeralkoholen zu Plattformchemikalien. <b>2012</b> , 124, 2614-2654		126
730	Hydrogenolysis goes bio: from carbohydrates and sugar alcohols to platform chemicals. <b>2012</b> , 51, 2564-601		649
729	Influences of Environmental and Operational Factors on Dark Fermentative Hydrogen Production: A Review. <b>2012</b> , 40, 1297-1305		18
728	Thermophilic Hydrogen Production from Renewable Resources: Current Status and Future Perspectives. <b>2012</b> , 5, 515-531		15
727	The <i>Paenibacillus polymyxa</i> species is abundant among hydrogen-producing facultative anaerobic bacteria in Lake Averno sediment. <b>2012</b> , 194, 345-51		10
726	Viability of ultrasonication of food waste for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2960-2964	6.7	33
725	Effects of acid and alkaline pretreatments on the biohydrogen production from grass by anaerobic dark fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 1120-1124	6.7	100
724	Thermophilic fermentative hydrogen production from various carbon sources by anaerobic mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2021-2027	6.7	31
723	Rapid detection and quantification methodology for genus <i>Megasphaera</i> as a hydrogen producer in a hydrogen fermentation system. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2239-2247	6.7	13
722	Improvement of hydrogen production under decreased partial pressure by newly isolated alkaline tolerant anaerobe, <i>Clostridium butyricum</i> TM-9A: Optimization of process parameters. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 3160-3168	6.7	90
721	Predominance of Bacilli and Clostridia in microbial community of biohydrogen producing biofilm sustained under diverse acidogenic operating conditions. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 4068-4076	6.7	33
720	By-products inhibition effects on bio-hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 7077-7083	6.7	20
719	Enhancing biohydrogen production of the alkalithermophile <i>Thermobrachium celere</i> . <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 5550-5558	6.7	14
718	Interrelationships between bioreactor volume, effluent recycle rate, temperature, pH, %H <sub>2</sub> , hydrogen productivity and hydrogen yield with undefined bacterial cultures. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 5579-5590	6.7	14
717	Microbial hydrogen production by bioconversion of crude glycerol: A review. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 6473-6490	6.7	113

7 <sup>16</sup>	Maximizing the hydrogen photoproduction yields in <i>Chlamydomonas reinhardtii</i> cultures: The effect of the H <sub>2</sub> partial pressure. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8850-8858	6.7	51
7 <sup>15</sup>	Redox stability and electrochemical study of nickel doped chromites as anodes for H <sub>2</sub> /CH <sub>4</sub> -fueled solid oxide fuel cells. <b>2012</b> , 115-116, 346-356		36
7 <sup>14</sup>	Improvement of hydrogen production by transposon-mutagenized strain of <i>Pantoea agglomerans</i> BH18. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8282-8287	6.7	11
7 <sup>13</sup>	Bacterial community analyses by pyrosequencing in dark fermentative H <sub>2</sub> -producing reactor using organic wastes as a feedstock. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8330-8337	6.7	31
7 <sup>12</sup>	The influence of the degree of back-mixing on hydrogen production in an anaerobic fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9630-9635	6.7	47
7 <sup>11</sup>	Quantitative analysis of media dilution rate effects on <i>Methanothermobacter marburgensis</i> grown in continuous culture on H <sub>2</sub> and CO <sub>2</sub> . <b>2012</b> , 36, 293-301		49
7 <sup>10</sup>	Semi-continuous photo-fermentative H <sub>2</sub> production by <i>Rhodobacter sphaeroides</i> : effect of decanting volume ratio. <b>2012</b> , 103, 481-3		19
7 <sup>09</sup>	Effects of initial lactic acid concentration, HRTs, and OLRs on bio-hydrogen production from lactate-type fermentation. <b>2012</b> , 103, 136-41		55
7 <sup>08</sup>	Anaerobic digestibility of algal bioethanol residue. <b>2012</b> , 113, 78-82		53
7 <sup>07</sup>	Thermophilic fermentative hydrogen production from xylose by <i>Thermotoga neapolitana</i> DSM 4359. <b>2012</b> , 37, 174-179		44
7 <sup>06</sup>	Rich hydrogen production from crude gas secondary catalytic cracking over Fe/Al <sub>2</sub> O <sub>3</sub> . <b>2012</b> , 39, 126-131		28
7 <sup>05</sup>	Hydrogen production by catalytic cracking of rice husk over Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst. <b>2012</b> , 41, 23-28		19
7 <sup>04</sup>	Fermentative hydrogen production [An alternative clean energy source. <b>2012</b> , 16, 2337-2346		124
7 <sup>03</sup>	Simultaneous hydrogen and ethanol production from sweet potato via dark fermentation. <b>2012</b> , 27, 155-164		44
7 <sup>02</sup>	Sodium (Na <sup>+</sup> ) concentration effects on metabolic pathway and estimation of ATP use in dark fermentation hydrogen production through stoichiometric analysis. <b>2012</b> , 108, 22-6		40
7 <sup>01</sup>	Combined biological hydrogen-producing systems: A review. <b>2012</b> , 48, 319-337		15
7 <sup>00</sup>	Impact of microalgae characteristics on their conversion to biofuel. Part I: Focus on cultivation and biofuel production. <b>2012</b> , 6, 105-113		23
6 <sup>99</sup>	Effect of substrate concentration on dark fermentation hydrogen production using an anaerobic fluidized bed reactor. <b>2012</b> , 166, 1248-63		56

698	Hydrogen production of a salt tolerant strain <i>Bacillus</i> sp. B2 from marine intertidal sludge. <b>2012</b> , 28, 31-7		22
697	A new high-energy density hydrogen carrier carbohydrate might be better than methanol. <b>2013</b> , 37, 769-779		12
696	Performance prediction of fluidised bed gasification of biomass using experimental data-based simulation models. <b>2013</b> , 3, 283-304		18
695	Progress in energy from microalgae: A review. <b>2013</b> , 27, 128-148		187
694	Prospecting hydrogen production of <i>Escherichia coli</i> by metabolic network modeling. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 11780-11789	6.7	10
693	Continuous mode of carbon dioxide sequestration by <i>C. sorokiniana</i> and subsequent use of its biomass for hydrogen production by <i>E. cloacae</i> IIT-BT 08. <b>2013</b> , 145, 116-22		42
692	Microalgae for a macroenergy world. <b>2013</b> , 26, 241-264		131
691	Biohydrogen from Renewable Resources. <b>2013</b> , 185-221		14
690	Biohydrogen Production from Organic Wastes by Dark Fermentation. <b>2013</b> , 103-144		25
689	Metabolic Engineering of Microorganisms for Biohydrogen Production. <b>2013</b> , 45-65		9
688	Enhancement effect of silver nanoparticles on fermentative biohydrogen production using mixed bacteria. <b>2013</b> , 142, 240-5		96
687	Fermentative hydrogen production by a new mesophilic bacterium <i>Clostridium</i> sp. 6A-5 isolated from the sludge of a sugar mill. <b>2013</b> , 59, 202-209		27
686	Biohydrogen Production from Algae. <b>2013</b> , 161-184		4
685	Photobiological hydrogen production: Bioenergetics and challenges for its practical application. <b>2013</b> , 17, 1-25		59
684	A review on development of industrial processes and emerging techniques for production of hydrogen from renewable and sustainable sources. <b>2013</b> , 23, 443-462		368
683	Biohydrogen production based on the evaluation of kinetic parameters of a mixed microbial culture using glucose and fruit-vegetable waste as feedstocks. <b>2013</b> , 171, 279-93		11
682	Integrative biological hydrogen production: an overview. <b>2013</b> , 53, 3-10		52
681	Continuous biohydrogen production from fruit wastewater at low pH conditions. <b>2013</b> , 36, 965-74		8

680	Impact of regulated pH on proto scale hydrogen production from xylose by an alkaline tolerant novel bacterial strain, <i>Enterobacter cloacae</i> DT-1. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2728-2737	6.7	26
679	Prospective technologies for using biohydrogen in power installations on the basis of fuel cells (a review). <b>2013</b> , 60, 202-211		7
678	Microbial consortia for hydrogen production enhancement. <b>2013</b> , 67, 30-5		7
677	Effect of Heat Pretreated Consortia on Fermentative Biohydrogen Production from Vegetable Waste. <b>2013</b> , 36, 125-131		24
676	Hydrogenases. <b>2013</b> , 343-383		
675	Extending the limits of <i>Bacillus</i> for novel biotechnological applications. <b>2013</b> , 31, 1543-61		177
674	Alkali-treated sewage sludge as a seeding source for hydrogen fermentation of food waste leachate. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15751-15756	6.7	7
673	Improved hydrogen gas production in electrohydrolysis of vinegar fermentation wastewater by scrap aluminum and salt addition. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 4389-4396	6.7	7
672	Feasibility of anaerobic digestion from bioethanol fermentation residue. <b>2013</b> , 141, 177-83		17
671	Microalgae in Biofuel Production-Current Status and Future Prospects. <b>2013</b> , 167-209		2
670	Hydrogen gas production from vinegar fermentation wastewater by electro-hydrolysis: Effects of initial COD content. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2701-2708	6.7	5
669	Optimisation and enhancement of biohydrogen production using nickel nanoparticles - a novel approach. <b>2013</b> , 141, 212-9		111
668	Pentoses, hexoses and glycerin as substrates for biohydrogen production: An approach for Brazilian biofuel integration. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2986-2997	6.7	44
667	Effects of OLRs and HRTs on hydrogen production from high salinity substrate by halophilic hydrogen producing bacterium (HHPB). <b>2013</b> , 141, 227-32		23
666	Conversion of organic solid waste to hydrogen and methane by two-stage fermentation system with reuse of methane fermenter effluent as diluting water in hydrogen fermentation. <b>2013</b> , 139, 120-7		29
665	Hydrogen-methane production from pulp & paper sludge and food waste by mesophilic/thermophilic anaerobic co-digestion. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15055-15062	6.7	68
664	Production of hydrogen and methane by one and two stage fermentation of food waste. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15764-15769	6.7	126
663	Agricultural Waste Management in Food Processing. <b>2013</b> , 619-666		4

662	Developments in Sustainable Chemical and Bioprocess Technology. <b>2013</b> ,		4
661	Initial Study of Thermophilic Hydrogen Production from Raw Palm Oil Mill Effluent (POME) Using Mixed Microflora. <b>2013</b> , 43-49		1
660	Ultrasound assisted extraction of carbohydrates from microalgae as feedstock for yeast fermentation. <b>2013</b> , 128, 337-44		94
659	Evaluation of different supplementary nutrients for enhanced biohydrogen production by <i>Enterobacter aerogenes</i> NRRL B 407 using waste derived crude glycerol. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2191-2198	6.7	17
658	Comparison of the use of sucrose and glucose as a substrate for hydrogen production in an upflow anaerobic fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15074-15083	6.7	50
657	Humus-reducing microorganisms and their valuable contribution in environmental processes. <b>2013</b> , 97, 10293-308		80
656	In situ hydrogen utilization for high fraction acetate production in mixed culture hollow-fiber membrane biofilm reactor. <b>2013</b> , 97, 10233-40		40
655	Optimal operational conditions for biohydrogen production from sugar refinery wastewater in an ASBR. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 13895-13906	6.7	27
654	Properties of Nanocatalytic Materials for Hydrogen Production from Renewable Resources. <b>2013</b> , 561-594		1
653	Performance of a biohydrogen solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 13781-13791	6.7	9
652	Biohydrogen. <b>2013</b> , 345-381		5
651	The valorization of glycerol: Economic assessment of an innovative process for the bioconversion of crude glycerol into ethanol and hydrogen. <b>2013</b> , 105, 349-357		36
650	Advancement of Biohydrogen Production and Its Integration with Fuel Cell Technology. <b>2013</b> , 263-278		0
649	Improvement of biohydrogen generation and seawater desalination in a microbial electro dialysis cell by installing the direct proton transfer pathway between the anode and cathode chambers. <b>2013</b> , 51, 6362-6369		8
648	Hydrogen production by <i>Pseudomonas stutzeri</i> JX442762 isolated from thermal soil at Mettur power station, Salem district, Tamil Nadu, India. <b>2013</b> , 6, 112-116		7
647	Effect of acid, heat and combined acid-heat pretreatments of anaerobic sludge on hydrogen production by anaerobic mixed cultures. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 6146-6153	6.7	56
646	Sub-dominant bacteria as keystone species in microbial communities producing bio-hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 4975-4985	6.7	70
645	Multiple process integrations for broad perspective analysis of fermentative H <sub>2</sub> production from wastewater treatment: Technical and environmental considerations. <b>2013</b> , 107, 244-254		59



644	Fluid-dynamics characteristics of a vortex-ingesting stirred tank for biohydrogen production. <b>2013</b> , 91, 2198-2208		14
643	A simulation on PSB biofilm formation with considering cell inactivation. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15670-15679	6.7	11
642	Improving conversion efficiency of solar energy to electricity in cyanobacterial PEMFC by high levels of photo-H <sub>2</sub> production. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 13556-13563	6.7	3
641	Continuous photo-fermentative hydrogen production from lactate and lactate-rich acidified food waste. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 6161-6166	6.7	9
640	Comparison of biohydrogen production in fluidized bed bioreactors at room temperature and 35 °C. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 12570-12579	6.7	16
639	Enhanced fermentative hydrogen production from cassava stillage by co-digestion: The effects of different co-substrates. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 6980-6988	6.7	29
638	Recent progress in hydrogenase and its biotechnological application for viable hydrogen technology. <b>2013</b> , 30, 1-10		21
637	Biohydrogen Production from Microalgae. <b>2013</b> , 317-333		12
636	Biofuels. <b>2013</b> , 373-381		
635	Formation of hydrogen-producing granules and microbial community analysis in a UASB reactor. <b>2013</b> , 53, 12-17		17
634	Biohydrogen production through photo fermentation or dark fermentation using waste as a substrate: Overview, economics, and future prospects of hydrogen usage. <b>2013</b> , 7, 334-352		132
633	Development and calibration of a model for biohydrogen production from organic waste. <b>2013</b> , 33, 1128-35		12
632	Metabolic engineering for enhanced hydrogen production: a review. <b>2013</b> , 59, 59-78		27
631	Optimization of conditions for hydrogen production from complex dairy wastewater by anaerobic sludge using desirability function approach. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 6607-6617	6.7	44
630	On the Systematic Synthesis of Sustainable Biorefineries. <b>2013</b> , 52, 3044-3064		78
629	Anaerobic conversion of microalgal biomass to sustainable energy carriers--a review. <b>2013</b> , 135, 222-31		108
628	Comparative study of biohydrogen production by four dark fermentative bacteria. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15686-15692	6.7	25
627	Bioreactor and Bioprocess Design for Biohydrogen Production. <b>2013</b> , 317-337		9

626	Biohydrogen as Biofuel: Future Prospects and Avenues for Improvements. <b>2013</b> , 301-315		4
625	Biohydrogen production by a novel integration of dark fermentation and mixotrophic microalgae cultivation. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 15807-15814	6.7	74
624	Fermentative Biohydrogen Production Using Microbial Consortia. <b>2013</b> , 273-299		1
623	Biohydrogen purification by membranes: An overview on the operational conditions affecting the performance of non-porous, polymeric and ionic liquid based gas separation membranes. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 9673-9687	6.7	119
622	Biological Hydrogen Production. <b>2013</b> , 171-199		1
621	Was pretreatment beneficial for more biogas in any process? Chemical pretreatment effect on hydrogenmethane co-production in a two-stage process. <b>2013</b> , 19, 316-321		20
620	Biohydrogen production from palm oil mill effluent using immobilized mixed culture. <b>2013</b> , 19, 659-664		50
619	Kinetics study of fermentative hydrogen production from liquid swine manure supplemented with glucose under controlled pH. <b>2013</b> , 48, 477-85		8
618	Microcontact imprinting of algae on poly(ethylene-co-vinyl alcohol) for biofuel cells. <b>2013</b> , 5, 11123-8		16
617	Microbial community structure of anaerobic sludge for hydrogen production under different acid pretreatment conditions. <b>2013</b> , 5, 023126		2
616	Trends in biohydrogen production: major challenges and state-of-the-art developments. <b>2013</b> , 34, 1653-70		68
615	A two-dimensional mass transfer model for an annular bioreactor using immobilized photosynthetic bacteria for hydrogen production. <b>2013</b> , 35, 1579-87		5
614	Biohydrogen production by dark fermentation. <b>2013</b> , 2, 401-421		29
613	Biological Resources for Energy. <b>2013</b> ,		2
612	Biohydrogen production by <i>Thermoanaerobacterium thermosaccharolyticum</i> KKU-ED1: Culture conditions optimization using mixed xylose/arabinose as substrate. <b>2013</b> , 16,		9
611	Electrohydrolysis of Vinegar Fermentation Wastewater for Hydrogen Gas Production Using Different Types of Electrodes. <b>2013</b> , 139, 881-886		2
610	Biohydrogen production and kinetic modeling using sediment microorganisms of Pichavaram mangroves, India. <b>2013</b> , 2013, 265618		24
609	Biohydrogen production by dark fermentation of glycerol using <i>Enterobacter</i> and <i>Citrobacter</i> Sp. <b>2013</b> , 29, 31-8		26

608	Enhancement of biohydrogen production from sweet sorghum syrup by anaerobic seed sludge in an anaerobic sequencing batch reactor by nutrient and vitamin supplementations. <b>2013</b> , 34, 2503-11	8
607	Solar hydrogen production and CO2 recycling. <b>2013</b> , 275-310	
606	. <b>2013</b> ,	5
605	Biogenic hydrogen conversion of de-oiled jatropha waste via anaerobic sequencing batch reactor operation: process performance, microbial insights, and CO2 reduction efficiency. <b>2014</b> , 2014, 946503	16
604	. <b>2014</b> ,	11
603	Flow patterns and optimization of compartments for the anaerobic baffled reactor. <b>2014</b> , 1-8	3
602	Hydrogen Production by Anaerobic Digestion of Biomass with High Lignocellulose Content - References Selection Procedure. <b>2014</b> , 659, 475-480	
601	Second-Generation Biofuel from High-Efficiency Algal-Derived Biocrude. <b>2014</b> , 153-170	2
600	Activation barriers of oxygen transformation at the active site of [FeFe] hydrogenases. <b>2014</b> , 53, 11890-902	20
599	Biotechnological hydrogen production by photosynthesis. <b>2014</b> , 14, 592-606	19
598	Biohydrogen Generation and Other Methods. <b>2014</b> , 51-74	
597	Recycling of carbon dioxide and acetate as lactic acid by the hydrogen-producing bacterium <i>Thermotoga neapolitana</i> . <b>2014</b> , 7, 2678-83	23
596	The Biohydrogen Potential of Distillery Wastewater by Dark Fermentation in an Anaerobic Sequencing Batch Reactor. <b>2014</b> , 11, 28-39	9
595	Effects of Temperature on Mixed-Culture Fermentative Hydrogen Production from Corn Stover Hydrolyzate. <b>2014</b> , 672-674, 159-163	
594	A review of the production and applications of waste-derived volatile fatty acids. <b>2014</b> , 235, 83-99	523
593	Characterization of a <i>Trichoderma atroviride</i> strain isolated from switchgrass bales and its use to saccharify ammonia-pretreated switchgrass for biobutanol production. <b>2014</b> , 64, 299-308	7
592	Biohydrogen and polyhydroxyalkanoate co-production by <i>Enterobacter aerogenes</i> and <i>Rhodobacter sphaeroides</i> from <i>Calophyllum inophyllum</i> oil cake. <b>2014</b> , 164, 170-6	57
591	Sequencing batch reactors (SBRs) for BioH <sub>2</sub> production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4863-4869	6.7 10

590	Improving hydrogen production via water splitting over Pt/TiO <sub>2</sub> /activated carbon nanocomposite. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7262-7269	6.7	56
589	Thermophilic biohydrogen production using pre-treated algal biomass as substrate. <b>2014</b> , 61, 157-166		67
588	Improved energy recovery from dark fermented cane molasses using microbial fuel cells. <b>2014</b> , 8, 43-54		35
587	Economic process to produce biohydrogen and volatile fatty acids by a mixed culture using vinasse from sugarcane ethanol industry as nutrient source. <b>2014</b> , 159, 380-6		86
586	Metagenomic-based analysis of biofilm communities for electrohydrogenesis: From wastewater to hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4222-4233	6.7	18
585	Methods of energy extraction from microalgal biomass: a review. <b>2014</b> , 13, 301-320		53
584	An experimental study on fermentative H <sub>2</sub> production from food waste as affected by pH. <b>2014</b> , 34, 1510-9		51
583	Comparison of tubular and panel type photobioreactors for biohydrogen production utilizing <i>Chlamydomonas reinhardtii</i> considering mixing time and light intensity. <b>2014</b> , 151, 265-70		58
582	Dynamics of hydrogen-producing bacteria in a repeated batch fermentation process using lake sediment as inoculum. <b>2014</b> , 196, 97-107		6
581	Kinetic analysis of biohydrogen production from complex dairy wastewater under optimized condition. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 1306-1314	6.7	36
580	Biohydrogen production from agroindustrial wastes via <i>Clostridium saccharoperbutylacetonicum</i> N1-4 (ATCC 13564). <b>2014</b> , 16, 11-21		21
579	Development of biohydrogen production by photobiological, fermentation and electrochemical processes: A review. <b>2014</b> , 31, 158-173		248
578	Characterization of a native cellulase activity from an anaerobic thermophilic hydrogen-producing bacterium <i>Thermosiphon</i> sp. strain 3. <b>2014</b> , 64, 1493-1503		9
577	Hydrogen fermentation of different galactose-glucose compositions during various hydraulic retention times (HRTs). <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 20625-20631	6.7	57
576	The chemostat study of metabolic distribution in extreme-thermophilic (70°C) mixed culture fermentation. <b>2014</b> , 98, 10267-73		14
575	An aqueous rechargeable formate-based hydrogen battery driven by heterogeneous Pd catalysis. <b>2014</b> , 53, 13583-7		113
574	The influence of iron concentration on biohydrogen production from organic waste via anaerobic fermentation. <b>2014</b> , 35, 3000-10		6
573	Hydrogen production using inorganic membrane reactors. <b>2014</b> , 283-316		2

572	Microalgae as versatile cellular factories for valued products. <b>2014</b> , 6, 52-63		353
571	Commercial application scenario using patent analysis: Fermentative hydrogen production from biomass. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 19277-19284	6.7	5
570	Effect of acid-pretreatment on hydrogen fermentation of food waste: Microbial community analysis by next generation sequencing. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 16302-16309	6.7	56
569	Hydrogenation of Esters Catalyzed by Ruthenium PN3-Pincer Complexes Containing an Aminophosphine Arm. <b>2014</b> , 33, 4152-4155		69
568	Production of Hydrogen and Methane from Banana Peel by Two Phase Anaerobic Fermentation. <b>2014</b> , 50, 702-710		39
567	Fermentative hydrogen and methane production from microalgal biomass ( <i>Chlorella vulgaris</i> ) in a two-stage combined process. <b>2014</b> , 132, 108-117		90
566	Biomass pretreatment for consolidated bioprocessing (CBP). <b>2014</b> , 234-258		9
565	Fermentative H <sub>2</sub> production from residual glycerol: a review. <b>2014</b> , 36, 1381-90		20
564	Optimizing hydrogen production from a switchgrass steam exploded liquor using a mixed anaerobic culture in an upflow anaerobic sludge blanket reactor. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3160-3175	6.7	34
563	Hydrogen production by <i>Escherichia coli</i> without nitrogen sparging and subsequent use of the waste culture for fast mass scale one-pot green synthesis of silver nanoparticles. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11902-11912	6.7	13
562	Molecular catalysts for hydrogen production from alcohols. <b>2014</b> , 7, 2464-2503		164
561	Thermophilic fermentations of lignocellulosic substrates and economics of biofuels: prospects in Pakistan. <b>2014</b> , 5, 1		9
560	Phytosynthesized iron oxide nanoparticles and ferrous iron on fermentative hydrogen production using <i>Enterobacter cloacae</i> : Evaluation and comparison of the effects. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11920-11929	6.7	60
559	Biohydrogen production using mutant strains of <i>Chlamydomonas reinhardtii</i> : The effects of light intensity and illumination patterns. <b>2014</b> , 92, 47-52		25
558	Enhancement in hydrogen production by co-cultures of <i>Bacillus</i> and <i>Enterobacter</i> . <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 14663-14668	6.7	76
557	Analysis of microbial community adaptation in mesophilic hydrogen fermentation from food waste by tagged 16S rRNA gene pyrosequencing. <b>2014</b> , 144, 143-51		31
556	Biohydrogen for a New Generation of H <sub>2</sub> /O <sub>2</sub> Biofuel Cells: A Sustainable Energy Perspective. <b>2014</b> , 1, 1724-1750		54
555	Influence of Cu <sup>2+</sup> concentration on the biohydrogen production of continuous stirred tank reactor. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 13437-13442	6.7	15

554	Evaluation of the potential hydrogen production by diazotrophic Burkholderia species. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3142-3151	6.7	7
553	Hydrogen production from cassava pulp hydrolysate by mixed seed cultures: Effects of initial pH, substrate and biomass concentrations. <b>2014</b> , 64, 1-10		49
552	Effects of mass transfer and light intensity on substrate biological degradation by immobilized photosynthetic bacteria within an annular fiber-illuminating biofilm reactor. <b>2014</b> , 131, 113-9		17
551	Fermentative H <sub>2</sub> production using a switchgrass steam exploded liquor fed to mixed anaerobic cultures: Effect of hydraulic retention time, linoleic acid and nitrogen sparging. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 9994-10002	6.7	12
550	Dark fermentative hydrogen production from lignocellulosic hydrolyzates [A review]. <b>2014</b> , 67, 145-159		112
549	Ultrasonic pretreatment for an enhancement of biohydrogen production from complex food waste. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7721-7729	6.7	64
548	Expression of different types of [FeFe]-hydrogenase genes in bacteria isolated from a population of a bio-hydrogen pilot-scale plant. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 9018-9027	6.7	32
547	Fermentative hydrogen production by newly isolated Clostridium perfringens ATCC 13124. <b>2014</b> , 6, 013130		7
546	Microbial biofuels production. <b>2014</b> , 155-168		3
545	An Aqueous Rechargeable Formate-Based Hydrogen Battery Driven by Heterogeneous Pd Catalysis. <b>2014</b> , 126, 13801-13805		18
544	Current State of Research on Algal Biohydrogen. <b>2015</b> , 412-441		3
543	Multi-Omic Dynamics Associate Oxygenic Photosynthesis with Nitrogenase-Mediated H <sub>2</sub> Production in Cyanothecce sp. ATCC 51142. <b>2015</b> , 5, 16004		12
542	Feasibility study for biohydrogen production from raw brewery wastewater. <b>2015</b> , 39, 1769-1777		14
541	A review on biomass-based hydrogen production for renewable energy supply. <b>2015</b> , 39, 1597-1615		104
540	Difference of microbial community stressed in artificial pit muds for Luzhou-flavour liquor brewing revealed by multiphase culture-independent technology. <b>2015</b> , 119, 1345-56		19
539	Atypical effect of temperature tuning on the insertion of the catalytic iron-sulfur center in a recombinant [FeFe]-hydrogenase. <b>2015</b> , 24, 2090-4		4
538	Fermentative hydrogen production from agroindustrial lignocellulosic substrates. <b>2015</b> , 46, 323-35		33
537	Hydrogen production from cassava processing wastewater in an anaerobic fixed bed reactor with bamboo as a support material. <b>2015</b> , 35, 578-587		20

536	Biohydrogen Production from Lignocellulosic Biomass: Technology and Sustainability. <b>2015</b> , 8, 13062-13080	84
535	Hydrogen Production by the Thermophilic Bacterium <i>Thermotoga neapolitana</i> . <b>2015</b> , 16, 12578-600	47
534	Evaluation of Mediterranean Agricultural Residues as a Potential Feedstock for the Production of Biogas via Anaerobic Fermentation. <b>2015</b> , 2015, 171635	11
533	Fermentative Hydrogen and Methane Productions from Organic Wastes: a Review. <b>2015</b> , 3, 16-23	7
532	Fundamentals of Hydrogen Production via Biotechnology (Bio-H <sub>2</sub> ). <b>2015</b> , 149-173	3
531	Robust observation strategy to estimate the substrate concentration in the influent of a fermentative bioreactor for hydrogen production. <b>2015</b> , 129, 126-134	10
530	Optimization of Factors Affecting Acid Hydrolysis of Water Hyacinth Stem ( <i>Eichhornia Crassipes</i> ) for Bio-Hydrogen Production. <b>2015</b> , 79, 833-837	20
529	Bioenergy: Biofuels Process Technology. <b>2015</b> , 165-207	1
528	Algae-Based Biohydrogen: Current Status of Bioprocess Routes, Economical Assessment, and Major Bottlenecks. <b>2015</b> , 77-86	
527	Density functional investigations on the catalytic cycle of the hydrogenation of aldehydes catalyzed by an enhanced ruthenium complex: an alcohol-bridged autocatalytic process. <b>2015</b> , 5, 2827-2836	1
526	Microbial Factories. <b>2015</b> ,	14
525	Thermophilic Fermentative Biohydrogen Production From Xylan by Anaerobic Mixed Cultures in Elephant Dung. <b>2015</b> , 12, 900-907	3
524	Aerosol-assisted chemical vapor deposition of metal oxide thin films for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 2115-2131	6.7 28
523	Membrane processes and renewable energies. <b>2015</b> , 43, 1343-1398	55
522	<i>Synechocystis</i> sp. PCC6803 metabolic models for the enhanced production of hydrogen. <b>2015</b> , 35, 184-98	7
521	An overview of renewable hydrogen production from thermochemical process of oil palm solid waste in Malaysia. <b>2015</b> , 94, 415-429	71
520	Lignocellulose biohydrogen: Practical challenges and recent progress. <b>2015</b> , 44, 728-737	211
519	Energy Security and Development. <b>2015</b> ,	2

518	Biohydrogen production from model microalgae <i>Chlamydomonas reinhardtii</i> : A simulation of environmental conditions for outdoor experiments. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 7502-7510	6.7	17
517	Lignocellulose-Based Bioproducts. <b>2015</b> ,		13
516	Biohydrogen from Lignocellulosic Wastes. <b>2015</b> , 253-288		9
515	Enhancement of hydrogen production from palm oil mill effluent via cell immobilisation technique. <b>2015</b> , 39, 215-222		23
514	Hydrogen in metabolism of purple bacteria and prospects of practical application. <b>2015</b> , 84, 1-22		12
513	Identification of <i>Candida tropicalis</i> BH-6 and synergistic effect with <i>Pantoea agglomerans</i> BH-18 on hydrogen production in marine culture. <b>2015</b> , 175, 2677-88		2
512	Direct impacts of alternative energy scenarios on water demand in the Middle East and North Africa. <b>2015</b> , 130, 171-183		9
511	Modelling of biohydrogen generation in microbial electrolysis cells (MECs) using a committee of artificial neural networks (ANNs). <b>2015</b> , 29, 1208-1215		26
510	On-line heuristic optimization strategy to maximize the hydrogen production rate in a continuous stirred tank reactor. <b>2015</b> , 50, 893-900		13
509	Improvement of biohydrogen production using a reduced pressure fermentation. <b>2015</b> , 38, 1925-33		24
508	Effect of headspace carbon dioxide sequestration on microbial biohydrogen communities. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 9966-9976	6.7	11
507	Enhanced Hydrogen Generation Properties of MgH <sub>2</sub> -Based Hydrides by Breaking the Magnesium Hydroxide Passivation Layer. <b>2015</b> , 8, 4237-4252		68
506	Development of a Photosynthetic Microbial Electrochemical Cell (PMEC) Reactor Coupled with Dark Fermentation of Organic Wastes: Medium Term Perspectives. <b>2015</b> , 8, 399-429		26
505	Metagenomic Sequencing Unravels Gene Fragments with Phylogenetic Signatures of O <sub>2</sub> -Tolerant NiFe Membrane-Bound Hydrogenases in Lacustrine Sediment. <b>2015</b> , 71, 296-302		1
504	Evaluation of Fermentative Hydrogen Production from Single and Mixed Fruit Wastes. <b>2015</b> , 8, 4253-4272		28
503	Hydrogen: A sustainable fuel for future of the transport sector. <b>2015</b> , 51, 623-633		296
502	Optimization of influential nutrients during direct cellulose fermentation into hydrogen by <i>Clostridium thermocellum</i> . <b>2015</b> , 16, 3116-32		17
501	Catalysts for the Intensification of the Water Gas Shift Process. <b>2015</b> , 479-484		1



500	Third generation biohydrogen production by <i>Clostridium butyricum</i> and adapted mixed cultures from <i>Scenedesmus obliquus</i> microalga biomass. <b>2015</b> , 153, 128-134		74
499	Biohydrogen production: strategies to improve process efficiency through microbial routes. <b>2015</b> , 16, 8266-93		218
498	Continuous photofermentative production of hydrogen by immobilized <i>Rhodobacter sphaeroides</i> O.U.001. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 5062-5073	6.7	26
497	Improving biohydrogen production using <i>Clostridium beijerinckii</i> immobilized with magnetite nanoparticles. <b>2015</b> , 99, 4107-16		43
496	Anode acclimation methods and their impact on microbial electrolysis cells treating fermentation effluent. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 6782-6791	6.7	25
495	Genome-wide transcriptional analysis suggests hydrogenase- and nitrogenase-mediated hydrogen production in <i>Clostridium butyricum</i> CWBI 1009. <b>2015</b> , 8, 27		33
494	Microalgae for Sustainable Energy Production?. <b>2015</b> , 471-484		
493	Technical suitability mapping of feedstocks for biological hydrogen production. <b>2015</b> , 102, 521-528		18
492	Propanol formation from CO <sub>2</sub> and C <sub>2</sub> H <sub>4</sub> with H <sub>2</sub> over Au/TiO <sub>2</sub> : Effect of support and K doping. <b>2015</b> , 258, 684-690		10
491	Towards a smart energy network: The roles of fuel/electrolysis cells and technological perspectives. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 6866-6919	6.7	107
490	Strategies for improvement of biohydrogen production from organic-rich wastewater: A review. <b>2015</b> , 75, 101-118		125
489	Membrane reactors for biohydrogen production and processing. <b>2015</b> , 267-286		2
488	Aquatic biomass (algae) as a future feed stock for bio-refineries: A review on cultivation, processing and products. <b>2015</b> , 47, 634-653		139
487	Noncatalytic Gasification of Lignin in Supercritical Water Using a Batch Reactor for Hydrogen Production: An Experimental and Modeling Study. <b>2015</b> , 29, 1776-1784		35
486	Effects of pre-treatment technologies on dark fermentative biohydrogen production: A review. <b>2015</b> , 157, 20-48		100
485	Increasing the bio-hydrogen production in a continuous bioreactor via nonlinear feedback controller. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 17224-17230	6.7	8
484	Biohydrogen production by dark fermentation: scaling-up and technologies integration for a sustainable system. <b>2015</b> , 14, 761-785		77
483	Advances in Bioprocess Technology. <b>2015</b> ,		4

482	RETRACTED: Solar hydrogen hybrid energy systems for off-grid electricity supply: A critical review. <b>2015</b> , 52, 1791-1808		47
481	Optimization of volatile fatty acids concentration for photofermentative hydrogen production by a consortium. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 17212-17223	6.7	13
480	The glucose metabolic distribution in thermophilic (55 °C) mixed culture fermentation: A chemostat study. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 919-926	6.7	21
479	Hydrogen the future transportation fuel: From production to applications. <b>2015</b> , 43, 1151-1158		481
478	Simultaneous production of bio-hydrogen and methane from soybean protein processing wastewater treatment using anaerobic baffled reactor (ABR). <b>2015</b> , 53, 2675-2685		10
477	Characteristics and kinetics of biohydrogen production with Ni <sup>2+</sup> using hydrogen-producing bacteria. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 161-167	6.7	22
476	Mechanisms for hydrogen production by different bacteria during mixed-acid and photo-fermentation and perspectives of hydrogen production biotechnology. <b>2015</b> , 35, 103-13		44
475	Methods for enhancing bio-hydrogen production from biological process: A review. <b>2015</b> , 21, 70-80		150
474	Starch: a potential substrate for biohydrogen production. <b>2015</b> , 39, 293-302		25
473	Effect of the accuracy of pH control on hydrogen fermentation. <b>2015</b> , 179, 595-601		46
472	Life cycle assessment: heterotrophic cultivation of thraustochytrids for biodiesel production. <b>2015</b> , 27, 639-647		30
471	Energy generation in a Microbial Fuel Cell using anaerobic sludge from a wastewater treatment plant. <b>2016</b> , 73, 424-428		18
470	Biophotovoltaics and Biohydrogen through artificial photosynthesis: an overview. <b>2016</b> , 15, 313		8
469	Current Insights to Enhance Hydrogen Production by Photosynthetic Organisms. <b>2016</b> , 461-488		2
468	Enhancing continuous photo-H <sub>2</sub> production using optical fiber for biofilm formation. <b>2016</b> , 35, 455-460		2
467	Isolation and characterization of a new [FeFe]-hydrogenase from <i>Clostridium perfringens</i> . <b>2016</b> , 63, 305-11		6
466	Performance of continuous stirred tank reactor (CSTR) on fermentative biohydrogen production from melon waste. <b>2016</b> , 162, 012013		4
465	HydDB: A web tool for hydrogenase classification and analysis. <b>2016</b> , 6, 34212		198

464	Biohydrogen Production from Hydrolysates of Selected Tropical Biomass Wastes with <i>Clostridium Butyricum</i> . <b>2016</b> , 6, 27205		26
463	The time-series evaluation of biohydrogen production by photosynthetic bacteria under fluctuating illumination pattern. <b>2016</b> , 42, 7701-7711		
462	An enclosed rotating floating photobioreactor (RFP) powered by flowing water for mass cultivation of photosynthetic microalgae. <b>2016</b> , 9, 218		18
461	Assessment of biological Hydrogen production processes: A review. <b>2016</b> , 36, 012068		2
460	Inhibition of dark fermentative bio-hydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 6713-6733	6.7	172
459	Bioreactor design for photofermentative hydrogen production. <b>2016</b> , 39, 1331-40		17
458	- Energy Bionics: The Bio-Analogue Strategy for a Sustainable Energy Future. <b>2016</b> , 432-481		
457	Can photosynthesis enable a global transition from fossil fuels to solar fuels, to mitigate climate change and fuel-supply limitations?. <b>2016</b> , 62, 134-163		56
456	Biorefineries Ifactories of the future. <b>2016</b> , 37, 109-119		5
455	A Review on Biofuel and Bioresources for Environmental Applications. <b>2016</b> , 205-225		9
454	Exceptionally High Rates of Biological Hydrogen Production by Biomimetic In Vitro Synthetic Enzymatic Pathways. <b>2016</b> , 22, 16047-16051		22
453	Mathematical modeling and analytical solution of two-phase flow transport in an immobilized-cell photo bioreactor using the homotopy perturbation method (HPM). <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 18405-18417	6.7	20
452	Integrated dark- and photo-fermentation: Recent advances and provisions for improvement. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 19957-19971	6.7	87
451	Stoichiometry evaluation of biohydrogen production from various carbohydrates. <b>2016</b> , 23, 20915-20921		14
450	High rate hydrogen fermentation of cello-lignin fraction in de-oiled jatropha waste using hybrid immobilized cell system. <b>2016</b> , 182, 131-140		29
449	Overview biohydrogen technologies and application in fuel cell technology. <b>2016</b> , 66, 137-162		81
448	Lipid production of microalga <i>Chlorella sorokiniana</i> CY1 is improved by light source arrangement, bioreactor operation mode and deep-sea water supplements. <b>2016</b> , 11, 356-62		13
447	Food waste valorization via anaerobic processes: a review. <b>2016</b> , 15, 499-547		144

446	Contributing factors in the improvement of cellulosic H <sub>2</sub> production in <i>Clostridium thermocellum</i> /Thermoanaerobacterium co-cultures. <b>2016</b> , 100, 8607-20		12
445	Room-Temperature and Aqueous-Phase Synthesis of Plasmonic Molybdenum Oxide Nanoparticles for Visible-Light-Enhanced Hydrogen Generation. <b>2016</b> , 11, 2377-81		29
444	Effect of concentration on biohydrogen production in a continuous stirred bioreactor using biofilm induced packed-carrier. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 21649-21656	6.7	9
443	History and Global Policy of Biofuels. <b>2016</b> , 1-14		7
442	Using social network analysis to examine the technological evolution of fermentative hydrogen production from biomass. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 21573-21582	6.7	8
441	Biohydrogen and Biogas [An overview on feedstocks and enhancement process. <b>2016</b> , 185, 810-828		136
440	Intelligent models to predict hydrogen yield in dark microbial fermentations using existing knowledge. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 12929-12940	6.7	14
439	A mechanistic model supported by data-based classification models for batch hydrogen production with an immobilized photo-bacteria consortium. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 22802-22811	6.7	11
438	Hydrogen production by the hyperthermophilic bacterium part I: effects of sulfured nutriments, with thiosulfate as model, on hydrogen production and growth. <b>2016</b> , 9, 269		18
437	Production Process via Fermentation. <b>2016</b> , 417-438		3
436	Quantitative proteomic analysis of the influence of lignin on biofuel production by <i>Clostridium acetobutylicum</i> ATCC 824. <b>2016</b> , 9, 113		18
435	Microbial dynamics of the extreme-thermophilic (70 °C) mixed culture for hydrogen production in a chemostat. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11072-11080	6.7	9
434	Production of hydrogen energy from dilute acid-hydrolyzed palm oil mill effluent in dark fermentation using an empirical model. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 16373-16384	6.7	27
433	Effects of phyto-genic copper nanoparticles on fermentative hydrogen production by <i>Enterobacter cloacae</i> and <i>Clostridium acetobutylicum</i> . <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 10639-10645	6.7	39
432	Enhanced H <sub>2</sub> Production and Redirected Metabolic Flux via Overexpression of <i>fhlA</i> and <i>pncB</i> in <i>Klebsiella</i> HQ-3 Strain. <b>2016</b> , 178, 1113-28		7
431	Growth and hydrogen production of outdoor cultures of <i>Synechocystis</i> PCC 6803. <b>2016</b> , 18, 78-85		17
430	Mass transfer modeling and maximization of hydrogen rhythmic production from genetically modified microalgae biomass. <b>2016</b> , 101, 1-9		7
429	Optimization performance of an AnSBBR applied to biohydrogen production treating whey. <b>2016</b> , 169, 191-201		19

428	Hydrogen gas production from waste paper by sequential dark fermentation and electrohydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 8057-8066	6.7	20
427	Improvement of hydrogen production via ethanol-type fermentation in an anaerobic down-flow structured bed reactor. <b>2016</b> , 202, 42-9		44
426	Function of homoacetogenesis on the heterotrophic methane production with exogenous H <sub>2</sub> /CO <sub>2</sub> involved. <b>2016</b> , 284, 1196-1203		57
425	BioH <sub>2</sub> photoproduction by means of <i>Rhodospseudomonas palustris</i> sp. cultured in a lab-scale photobioreactor operated in batch, fed-batch and semi-continuous modes. <b>2016</b> , 166, 203-210		14
424	Comparative Genomics of Core Metabolism Genes of Cellulolytic and Non-cellulolytic <i>Clostridium</i> Species. <b>2016</b> , 156, 79-112		1
423	Hydrogen gas production from waste peach pulp by dark fermentation and electrohydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11568-11576	6.7	21
422	Non-catalytic conversion of wheat straw, walnut shell and almond shell into hydrogen rich gas in supercritical water media. <b>2016</b> , 24, 1097-1103		29
421	Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. <b>2016</b> , 7, 201-235		182
420	Optimization of key factors affecting biohydrogen production from microcrystalline cellulose by the co-culture of <i>Clostridium acetobutylicum</i> X9 + <i>Ethanoigenens harbinense</i> B2. <b>2016</b> , 6, 3421-3427		19
419	Biochemical hydrogen and methane potential of sugarcane syrup using a two-stage anaerobic fermentation process. <b>2016</b> , 82, 88-99		62
418	The effect of a C298D mutation in CaHydA [FeFe]-hydrogenase: Insights into the protein-metal cluster interaction by EPR and FTIR spectroscopic investigation. <b>2016</b> , 1857, 98-106		15
417	Biohydrogen production from de-oiled rice bran as sustainable feedstock in fermentative process. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 145-156	6.7	58
416	Commercialization model of hydrogen production technology in Taiwan: Dark fermentation technology applications. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4489-4497	6.7	18
415	Enriched Methane. <b>2016</b> ,		1
414	Permeation properties of polymeric membranes for biohydrogen purification. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4474-4488	6.7	26
413	Continuous hydrogen production using upflow anaerobic sludge blanket reactors: effect of organic loading rate on microbial dynamics and H <sub>2</sub> metabolism. <b>2017</b> , 92, 544-551		7
412	Feasibility Study of Biogas Reforming To Improve Energy Efficiency and To Reduce Nitrogen Oxide Emissions. <b>2017</b> , 56, 1186-1200		2
411	Biocoatings: A new challenge for environmental biotechnology. <b>2017</b> , 121, 25-37		15

410	A novel gas separation integrated membrane bioreactor to evaluate the impact of self-generated biogas recycling on continuous hydrogen fermentation. <b>2017</b> , 190, 813-823		58
409	Artificial neural networks: an efficient tool for modelling and optimization of biofuel production (a mini review). <b>2017</b> , 31, 221-235		55
408	Production of bio-hydrogen and methane during semi-continuous digestion of maize silage in a two-stage system. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5768-5779	6.7	26
407	Does the volume matter in bioprocess model development? An insight into modelling and optimization of biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5780-5792	6.7	6
406	Improvement of hydrogen production by biological route using repeated batch cycles. <b>2017</b> , 58, 60-68		20
405	Enhancement of fermentative biohydrogen production from textile desizing wastewater via coagulation-pretreatment. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 12153-12158	6.7	26
404	Effect of Light/Dark Regimens on Hydrogen Production by <i>Tetraselmis subcordiformis</i> Coupled with an Alkaline Fuel Cell System. <b>2017</b> , 183, 1295-1303		4
403	Integrated systems for biopolymers and bioenergy production from organic waste and by-products: a review of microbial processes. <b>2017</b> , 10, 113		87
402	Characteristics of adapted hydrogenotrophic community during biomethanation. <b>2017</b> , 595, 912-919		47
401	Microbial production of volatile fatty acids: current status and future perspectives. <b>2017</b> , 16, 327-345		97
400	Thermal characterization of anaerobic sludges from wastewater treatments applied to biological generation of H <sub>2</sub> . <b>2017</b> , 127, 1267-1275		3
399	Hydrogen Production and Water Electrolysis. <b>2017</b> , 159-202		
398	Techno-economic feasibility analysis on carbon membranes for hydrogen purification. <b>2017</b> , 186, 117-124		37
397	Analysis of the Influence of Internal Pressure Control to the Total Gas Production in Anaerobic Digester. <b>2017</b> , 170, 467-472		1
396	Effects of N/C, P/C and Fe/C ratios on dark fermentative hydrogen gas production from waste paper towel hydrolysate. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 14990-15001	6.7	12
395	Enrichment of Hydrogen-Producing Microorganisms. <b>2017</b> , 69-121		1
394	Microbial Applications Vol.1. <b>2017</b> ,		4
393	Macrophytes for the Reclamation of Degraded Waterbodies with Potential for Bioenergy Production. <b>2017</b> , 333-351		5

392	Integrated Biorefinery Approach for the Valorization of Olive Mill Waste Streams Towards Sustainable Biofuels and Bio-Based Products. <b>2017</b> , 211-238		4
391	A simulation on flow and mass transfer in a packed bed photobioreactor for hydrogen production. <b>2017</b> , 109, 1132-1142		7
390	Distributed Renewable Energy Technologies. <b>2017</b> , 3-67		12
389	Coproduction of hydrogen and volatile fatty acid via thermophilic fermentation of sweet sorghum stalk from co-culture of <i>Clostridium thermocellum</i> and <i>Clostridium thermosaccharolyticum</i> . <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 830-837	6.7	26
388	Mixotrophic cultivation, a preferable microalgae cultivation mode for biomass/bioenergy production, and bioremediation, advances and prospect. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 8505-8517	6.7	139
387	Long-term biological hydrogen production by agar immobilized <i>Rhodobacter capsulatus</i> in a sequential batch photobioreactor. <b>2017</b> , 40, 589-599		19
386	Pore-scale lattice Boltzmann simulation of flow and mass transfer in bioreactor with an immobilized granule for biohydrogen production. <b>2017</b> , 62, 22-30		16
385	Pathways and Thermodynamics of Oxygen Diffusion in [FeFe]-Hydrogenase. <b>2017</b> , 121, 10007-10017		7
384	Coupling dark fermentation with biochemical or bioelectrochemical systems for enhanced bio-energy production: A review. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26667-26686	6.7	45
383	Simultaneous production of hydrogen and volatile fatty acids from anaerobic digestion of <i>Macrocystis pyrifera</i> biomass residues. <b>2017</b> , 24, 1281-1287		6
382	Support material dictates the attached biomass characteristics during the immobilization process in anaerobic continuous-flow packed-bed bioreactor. <b>2017</b> , 48, 194-202		13
381	[FeFe]-hydrogenases as biocatalysts in bio-hydrogen production. <b>2017</b> , 28, 183-194		7
380	Enhancement of the hydrogen productivity in microbial water gas shift reaction by <i>Thermococcus onnurineus</i> NA1 using a pressurized bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27593-27599	6.7	17
379	Fermentative hydrogen production from mixed and pure microalgae biomass: Key challenges and possible opportunities. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26440-26453	6.7	35
378	Factors influencing algal photobiohydrogen production in algal-bacterial co-cultures. <b>2017</b> , 28, 161-171		19
377	Light olefins/bio-gasoline production from biomass. <b>2017</b> , 87-148		6
376	Advancements and confinements in hydrogen production technologies. <b>2017</b> , 373-418		8
375	Influence of iron (II) oxide nanoparticle on biohydrogen production in thermophilic mixed fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27482-27493	6.7	74

374	Bioenergy production from second- and third-generation feedstocks. <b>2017</b> , 559-599		8
373	Sustainable Hydrogen Production Processes. <b>2017</b> ,		5
372	Hydrogen Production Processes. <b>2017</b> , 5-76		5
371	Biohydrogen Production from Agricultural Biomass and Organic Wastes. <b>2017</b> , 49-67		3
370	Characterization and Screening of Algal Strains for Sustainable Biohydrogen Production: Primary Constraints. <b>2017</b> , 115-146		3
369	Trends and Challenges in Biohydrogen Production from Agricultural Waste. <b>2017</b> , 69-95		7
368	Exploiting Biohydrogen Pathways of Cyanobacteria and Green Algae: An Industrial Production Approach. <b>2017</b> , 97-113		4
367	Waste-to-Hydrogen Energy in Saudi Arabia: Challenges and Perspectives. <b>2017</b> , 237-252		16
366	Biohydrogen Economy: Challenges and Prospects for Commercialization. <b>2017</b> , 253-267		4
365	Microbial bioelectrosynthesis of hydrogen: Current challenges and scale-up. <b>2017</b> , 96, 1-13		36
364	Stability of <i>Clostridium butyricum</i> in biohydrogen production from non-sterile food waste. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3454-3465	6.7	20
363	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. <b>2017</b> , 141, 390-402		85
362	Effect of impurity N <sub>2</sub> concentration on the hydriding kinetics of Na-doped Mg <sub>92</sub> Ni alloys. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 366-375	6.7	1
361	Effect of pH on Biohydrogen Production in Green Alga <i>Tetraspora</i> sp. CU2551. <b>2017</b> , 138, 1085-1092		5
360	Effect of Metal Cofactors of Key Enzymes on Biohydrogen Production by Nitrogen Fixing Cyanobacterium <i>Anabaena siamensis</i> TISIR 8012. <b>2017</b> , 138, 360-365		7
359	Bioprocess Network for Solid Waste Management. <b>2017</b> , 349-382		
358	Review of Continuous Fermentative Hydrogen-Producing Bioreactors from Complex Wastewater. <b>2017</b> ,		3
357	Energy from Microalgae. <b>2018</b> ,		4



356	Biofuels from Microalgae: Biohydrogen. <b>2018</b> , 201-228		12
355	Hydrogen: A brief overview on its sources, production and environmental impact. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 10605-10614	6.7	236
354	Enhanced hydrogen production by optimization of immobilized cells of the green alga <i>Tetraspora</i> sp. CU2551 grown under anaerobic condition. <b>2018</b> , 111, 88-95		17
353	The effect of different operational parameters on hydrogen rich syngas production from biomass gasification in a dual fluidized bed gasifier. <b>2018</b> , 126, 210-221		31
352	Hydrogen and methane production in a two-stage anaerobic digestion system by co-digestion of food waste, sewage sludge and glycerol. <b>2018</b> , 76, 339-349		82
351	Effect of nitrogen gas sparging on dark fermentative biohydrogen production using suspended and immobilized cells of anaerobic mixed bacteria from potato waste. <b>2018</b> , 9, 595-604		7
350	Ferric oxide/carbon nanoparticles enhanced bio-hydrogen production from glucose. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8729-8738	6.7	41
349	Hydrogen production, storage, transportation and key challenges with applications: A review. <b>2018</b> , 165, 602-627		477
348	Parametric investigation on biomass gasification in a fluidized bed gasifier and conceptual design of gasifier. <b>2018</b> , 127, 271-291		34
347	Production of biohydrogen from brewery wastewater using <i>Klebsiella pneumoniae</i> isolated from the environment. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 4276-4283	6.7	25
346	Catalytic materials for biofuel conversion. <b>2018</b> , 63, 241-256		8
345	A review on single stage integrated dark-photo fermentative biohydrogen production: Insight into salient strategies and scopes. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2091-2107	6.7	36
344	Fe Co1E-doped titanium oxide nanotubes as effective photocatalysts for hydrogen extraction from ammonium phosphate. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 7990-7997	6.7	14
343	Microbial electrolysis cell powered by an aluminum-air battery for hydrogen generation, in-situ coagulant production and wastewater treatment. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 7764-7772	6.7	10
342	Optimized Hollow Fiber Sorbents and Pressure Swing Adsorption Process for H2 Recovery. <b>2018</b> , 57, 5093-5105		12
341	Emerging microalgae technology: a review. <b>2018</b> , 2, 13-38		53
340	Ultrasound-assisted biological conversion of biomass and waste materials to biofuels: A review. <b>2018</b> , 40, 298-313		90
339	Microwave-assisted conversion of biomass and waste materials to biofuels. <b>2018</b> , 82, 1149-1177		114

338	A simple gas pressure manometer for measuring hydrogen production by hydrogenogenic cultures in serum bottles. <b>2018</b> , 65, 157-163		1
337	Nanoparticles in Biological Hydrogen Production: An Overview. <b>2018</b> , 58, 8-18		60
336	N-doped Ni/C/TiO <sub>2</sub> nanocomposite as effective photocatalyst for water splitting. <b>2018</b> , 210, 317-320		14
335	Advanced biotechnology in biorefinery: a new insight into municipal waste management to the production of high-value products. <b>2018</b> , 15, 675-686		7
334	Experimental investigations of thermal processes in the flow-through hydrogen purification reactor. <b>2018</b> , 1128, 012120		2
333	Effect of hydrogen partial pressure control on fermentative hydrogen production from organic wastewater. <b>2018</b> , 188, 012021		2
332	Variation in the Distribution of Hydrogen Producers from the Clostridiales Order in Biogas Reactors Depending on Different Input Substrates. <b>2018</b> , 11, 3270		26
331	Biohythane Production from Organic Wastes by Two-Stage Anaerobic Fermentation Technology. <b>2018</b> ,		7
330	Comparison of two real-time optimization strategies to maximize the hydrogen production in a dark fermenter. <b>2018</b> , 51, 137-142		
329	Fermentative hydrogen production from low-value substrates. <b>2018</b> , 34, 176		14
328	Systematic analysis of biomass derived fuels for fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 23178-23192	6.7	36
327	Biohydrogen Production from Food Waste: Influence of the Inoculum-To-Substrate Ratio. <b>2018</b> , 10, 4506		15
326	Diagnosis of undesired scenarios in hydrogen production by photo-fermentation. <b>2018</b> , 78, 1652-1657		3
325	The physiology and biotechnology of dark fermentative biohydrogen production. <b>2018</b> , 36, 2165-2186		28
324	Hydrogen production from biomass using dark fermentation. <b>2018</b> , 91, 665-694		229
323	Hydrogen. <b>2018</b> , 5-105		6
322	Changes in the microbial consortium during dark hydrogen fermentation in a bioelectrochemical system increases methane production during a two-stage process. <b>2018</b> , 11, 173		9
321	Biologically Renewable Resources of Energy: Potentials, Progress and Barriers. <b>2018</b> , 1-22		

320	Identification of a novel hydrogen producing bacteria from sugarcane bagasse waste. <b>2018</b> , 15, 277-282	7
319	A scientometric study of the research on ion exchange membranes.. <b>2018</b> , 8, 24036-24048	15
318	Improvement of biohydrogen production by optimization of pretreatment method and substrate to inoculum ratio from microalgal biomass and digested sludge. <b>2018</b> , 127, 670-677	30
317	Influence and strategies for enhanced biohydrogen production from food waste. <b>2018</b> , 92, 807-822	59
316	Effect of stabilization temperature during pyrolysis process of P84 co-polyimide-based tubular carbon membrane for H <sub>2</sub> /N <sub>2</sub> and He/N <sub>2</sub> separations. <b>2018</b> , 342, 012027	10
315	Advanced biohydrogen production using pretreated industrial waste: Outlook and prospects. <b>2018</b> , 96, 306-324	86
314	Bio-hydrogen production from waste materials: A review. <b>2018</b> , 192, 02020	11
313	A review on the utilization of hybrid renewable energy. <b>2018</b> , 91, 1121-1147	163
312	Experimental validation of online monitoring and optimization strategies applied to a biohydrogen production dark fermenter. <b>2018</b> , 190, 48-59	10
311	Miscible-blend polysulfone/polyimide membrane for hydrogen purification from palm oil mill effluent fermentation. <b>2019</b> , 209, 598-607	27
310	Supercritical water gasification of glycerol for Hydrogen production using response surface methodology. <b>2019</b> ,	0
309	Influence of lanthanum on morphology and electrochemical performance of nano-platinum-based catalytic membrane electrode. <b>2019</b> , 51, 1033-1039	1
308	Biohydrogen production from industrial wastewater: An overview. <b>2019</b> , 7, 100287	52
307	Direct Bioelectricity Generation from Sago Hampas by SR1 Using Microbial Fuel Cell. <b>2019</b> , 24,	10
306	Acetate-Inducing Metabolic States Enhance Polyhydroxyalkanoate Production in Marine Purple Non-sulfur Bacteria Under Aerobic Conditions. <b>2019</b> , 7, 118	15
305	Evaluation of pretreatment methods and initial pH on mixed inoculum for fermentative hydrogen production from cassava wastewater. <b>2019</b> , 1-8	9
304	Bioprospecting of Microbes for Biohydrogen Production: Current Status and Future Challenges. <b>2019</b> , 443-471	19
303	Culture of attached and suspended <i>Rhodopseudomonas faecalis</i> in the presence of decomposing fish feed. <b>2019</b> , 8, e924	3

302	Biohydrogen Production: Status and Perspectives. <b>2019</b> , 693-713		6
301	Recent Progresses in Application of Membrane Bioreactors in Production of Biohydrogen. <b>2019</b> , 9,		14
300	CO <sub>2</sub> hydrogenation on Fe-based catalysts doped with potassium in gas phase and under supercritical conditions. <b>2019</b> , 29, 382-384		8
299	Optimizing hybrid membrane-pressure swing adsorption processes for biogenic hydrogen recovery. <b>2019</b> , 364, 452-461		25
298	A mini-review on the metabolic pathways of food waste two-phase anaerobic digestion system. <b>2019</b> , 37, 333-346		24
297	Acidogenic Biohydrogen Production Integrated With Biorefinery Approach. <b>2019</b> , 369-381		0
296	Bioreactor and Bioprocess Design for Biohydrogen Production. <b>2019</b> , 391-411		1
295	Dark-Fermentative Biohydrogen Production. <b>2019</b> , 79-122		12
294	Hydrogen Production from Coffee Mucilage in Dark Fermentation with Organic Wastes. <b>2019</b> , 12, 71		10
293	The hydraulic retention time influences the abundance of <i>Enterobacter</i> , <i>Clostridium</i> and <i>Lactobacillus</i> during the hydrogen production from food waste. <b>2019</b> , 69, 138-147		14
292	Agricultural Waste Management in Food Processing. <b>2019</b> , 673-716		7
291	Pseudogene <i>YdfW</i> in <i>Escherichia coli</i> decreases hydrogen production through nitrate respiration pathways. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 16212-16223	6.7	2
290	New trends in biogas production and utilization. <b>2019</b> , 199-223		5
289	Strategies to improve the biohydrogen production from cassava wastewater in fixed-bed reactors. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 17214-17223	6.7	18
288	Households' willingness to pay for developing marine bio-hydrogen technology: The case of South Korea. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 12907-12917	6.7	10
287	Photobiological biohydrogen production. <b>2019</b> , 437-467		0
286	Acetic acid is key for synergetic hydrogen production in <i>Chlamydomonas</i> -bacteria co-cultures. <b>2019</b> , 289, 121648		25
285	Enhanced economic feasibility of excess sludge treatment: acid fermentation with biogas production. <b>2019</b> , 1,		10

284	Nanoengineered cellulosic biohydrogen production via dark fermentation: A novel approach. <b>2019</b> , 37, 107384		48
283	A survey on control issues in renewable energy integration and microgrid. <b>2019</b> , 4,		105
282	Influence of Sn Content, Nanostructural Morphology, and Synthesis Temperature on the Electrochemical Active Area of Ni-Sn/C Nanocomposite: Verification of Methanol and Urea Electrooxidation. <b>2019</b> , 9, 330		16
281	Biohydrogen Production From Renewable Resources. <b>2019</b> , 289-312		3
280	Photobiological Production of Biohydrogen: Recent Advances and Strategy. <b>2019</b> , 89-116		3
279	Sustainable biohydrogen production by dark fermentation using carbon monoxide as the sole carbon and energy source. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 13114-13125	6.7	13
278	Fermentation processes for second-generation biofuels. <b>2019</b> , 241-272		7
277	Hydrogen production by PEM water electrolysis [A review]. <b>2019</b> , 2, 442-454		314
276	Comparative kinetic modeling of growth and molecular hydrogen overproduction by engineered strains of <i>Thermotoga maritima</i> . <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 7125-7136	6.7	16
275	A review on mechanistic kinetic models of ethanol steam reforming for hydrogen production using a fixed bed reactor. <b>2019</b> , 73, 1027-1042		11
274	Recent developments of strontium titanate for photocatalytic water splitting application. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 14316-14340	6.7	54
273	Engineering Two-Dimensional Transition Metal Dichalcogenide Electrocatalysts for Water Splitting Hydrogen Generation. <b>2019</b> , 1845-1873		1
272	Biohydrogen Production From Algae. <b>2019</b> , 219-245		12
271	. <b>2019</b> ,		1
270	Hydrogen Production from Wastewater by Biochemical Methods. <b>2019</b> , 1-17		
269	Genome-scale model of <i>C. autoethanogenum</i> reveals optimal bioprocess conditions for high-value chemical production from carbon monoxide. <b>2019</b> , 3, 32-40		17
268	Potential of Hydrogen Production From Biomass. <b>2019</b> , 123-164		13
267	Optimization of biohydrogen production of palm oil mill effluent by ozone pretreatment. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 5203-5211	6.7	9

266	Direct current assisted bio-hydrogen production from acid hydrolyzed waste paper. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 18792-18800	6.7	2
265	Microbiome involved in anaerobic hydrogen producing granules: A mini review. <b>2019</b> , 21, e00301		6
264	A Study on the Role of Clostridium Saccharoperbutylaceticum N1-4 (ATCC 13564) in Producing Fermentative Hydrogen. <b>2019</b> , 17,		1
263	Hydrogen production from melon and watermelon mixture by dark fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 18811-18817	6.7	31
262	Potential of bio-hydrogen production from dark fermentation of crop residues: A review. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 17346-17362	6.7	52
261	Effects of rice husk particle size on biohydrogen production under solid state fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 18785-18791	6.7	14
260	Green Gaseous Fuel Technology. <b>2019</b> , 205-264		2
259	Sonochemical and sonoelectrochemical production of hydrogen. <b>2019</b> , 51, 533-555		64
258	Zero-waste algal biorefinery for bioenergy and biochar: A green leap towards achieving energy and environmental sustainability. <b>2019</b> , 650, 2467-2482		101
257	Obtaining and Characterization of Mesophilic Bacterial Consortia from Tropical Sludges Applied on Biohydrogen Production. <b>2019</b> , 10, 1493-1502		3
256	Traditional Biomass: A Replacement for Petro-Fuels. <b>2020</b> , 795-809		2
255	Effects of metals in wastewater on hydrogen gas production using electrohydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 3407-3413	6.7	4
254	Poultry slaughterhouse anaerobic ponds as a source of inoculum for biohydrogen production. <b>2020</b> , 129, 77-85		1
253	Dark fermentative biohydrogen production from lignocellulosic biomass: Technological challenges and future prospects. <b>2020</b> , 117, 109484		74
252	Screening and Bioprospecting of Anaerobic Consortia for Biofuel Production Enhancement from Sugarcane Bagasse. <b>2020</b> , 190, 232-251		5
251	Women and Healthcare Affordability After the ACA. <b>2020</b> , 35, 959-960		3
250	Experimental investigations of AB5-type alloys for hydrogen separation from biological gas streams. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 4685-4692	6.7	4
249	Hydrogen as an energy vector. <b>2020</b> , 120, 109620		194

248	Reduction of iron oxides and microbial community composition in iron-rich soils with different organic carbon as electron donors. <b>2020</b> , 148, 104881		24
247	Wastewater treatment and biomass generation with algae. <b>2020</b> , 229-254		2
246	Effectiveness of fouling mechanism for bacterial immobilization in polyvinylidene fluoride membranes for biohydrogen fermentation. <b>2020</b> , 120, 48-57		3
245	Co-fermentation of carbohydrates and proteins for biohydrogen production: Statistical optimization using Response Surface Methodology. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 2640-2654	6.7	12
244	Mesophilic and thermophilic dark fermentation course analysis using sensor matrices and chromatographic techniques. <b>2020</b> , 74, 1573-1582		7
243	Ag-decorated TiO <sub>2</sub> nanofibers as Arrhenius equation-incompatible and effective photocatalyst for water splitting under visible light irradiation. <b>2020</b> , 604, 125307		7
242	An overview on the efficiency of biohydrogen production from cellulose. <b>2020</b> , 1		6
241	Incorporation of thermally labile additives in polyimide carbon membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 46, 24855-24855	6.7	1
240	Novel Biofuel Cell Using Hydrogen Generation of Photosynthesis. <b>2020</b> , 11,		2
239	Shift of microbial community structure by substrate level in dynamic membrane bioreactor for biohydrogen production. <b>2020</b> , 45, 17408		6
238	Hydrogen generation in bioreactors. <b>2020</b> , 183-208		
237	Hydrogen Production: State of Technology. <b>2020</b> , 544, 012011		11
236	PI/NCC Carbon Membrane: Effect of Additives loading Towards Hydrogen Separation. <b>2020</b> , 736, 022002		1
235	Biomass coproducts utilization. <b>2020</b> , 153-197		
234	Volatile fatty acids production during anaerobic digestion of lignocellulosic biomass. <b>2020</b> , 237-251		6
233	A state of the art review on biomass processing and conversion technologies to produce hydrogen and its recovery via membrane separation. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 15166-15195	6.7	57
232	Biotechnology for Biofuels: A Sustainable Green Energy Solution. <b>2020</b> ,		3
231	Biofuels from Microalgae and Seaweeds. <b>2020</b> , 185-218		3

230	A DFT study on production of hydrogen from biomass-derived formic acid catalyzed by Pt <sup>III</sup> O <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 20993-21003	6.7	5
229	Identification of Hydrogen Gas Producing Anaerobic Bacteria Isolated from Sago Industrial Effluent. <b>2020</b> , 77, 2544-2553		5
228	Algae-Bacteria Consortia as a Strategy to Enhance H <sub>2</sub> Production. <b>2020</b> , 9,		23
227	Biohydrogen. <b>2020</b> , 51-87		1
226	Enhancement of pH values stability and photo-fermentation biohydrogen production by phosphate buffer. <b>2020</b> , 11, 291-300		15
225	HoxU of <i>Synechocystis</i> sp. PCC 6803 heterologous expressed in <i>E. aerogenes</i> . <b>2020</b> ,		
224	WITHDRAWN: Preparation and characterization of polyimide carbon membrane concerning thermally labile additives for hydrogen separation performance. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> ,	6.7	
223	Analysis of the three-phase state in biological hydrogen production from coal. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 21112-21122	6.7	2
222	Traditional Routes for Hydrogen Production and Carbon Conversion. <b>2020</b> , 21-53		7
221	Utilization of Acid-Hydrolysed Microalgal Biomass Collected from Eutrophication-Affected Freshwater Pond as a Substrate for Biogas (Biohydrogen) Production by means of Dark- and Photo-Fermentation. <b>2020</b> , 439, 012003		
220	Hydrogen production by photovoltaic-electrolysis using aqueous waste from ornamental stones industries. <b>2020</b> , 152, 1266-1273		9
219	Sequential dark and photo-fermentative hydrogen gas production from agar embedded molasses. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 34730-34738	6.7	5
218	Biohydrogen Production Through Dark Fermentation. <b>2020</b> , 43, 601-612		52
217	Comparison of hydrogen and volatile fatty acid production by <i>Bacillus cereus</i> , <i>Enterococcus faecalis</i> and <i>Enterobacter aerogenes</i> singly, in co-cultures or in the bioaugmentation of microbial consortium from sugarcane vinasse. <b>2020</b> , 18, 100638		9
216	Modeling Dark Fermentation of Coffee Mucilage Wastes for Hydrogen Production: Artificial Neural Network Model vs. Fuzzy Logic Model. <b>2020</b> , 13, 1663		3
215	Statistical optimization of H <sub>2</sub> , 1,3-propanediol and propionic acid production from crude glycerol using an anaerobic fluidized bed reactor: Interaction effects of substrate concentration and hydraulic retention time. <b>2020</b> , 138, 105575		17
214	High purity hydrogen production via aqueous phase reforming of xylose over small Pt nanoparticles on a $\gamma$ -Al <sub>2</sub> O <sub>3</sub> support. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 13848-13861	6.7	10
213	Transformation analysis of key liquid phase products during lignite fermentation to produce biological hydrogen. <b>2020</b> , 7, 168-175		



212	Product Inhibition of Biological Hydrogen Production in Batch Reactors. <b>2020</b> , 13, 1318		2
211	Waste into energy conversion technologies and conversion of food wastes into the potential products: a review. <b>2021</b> , 42, 1083-1101		13
210	Dark fermentation of starch factory wastewater with acid- and base-treated mixed microorganisms for biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16622-16630	6.7	5
209	Robust operation through effluent recycling for hydrogen production from the organic fraction of municipal solid waste. <b>2021</b> , 319, 124196		6
208	Biomass-based biorefineries: An important archetype towards a circular economy. <b>2021</b> , 288, 119622		70
207	Biomass-to-hydrogen: A review of main routes production, processes evaluation and techno-economical assessment. <b>2021</b> , 144, 105920		53
206	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. <b>2021</b> , 164, 1566-1587		42
205	Sequential production of hydrogen and methane by anaerobic digestion of organic wastes: a review. <b>2021</b> , 19, 1043-1063		13
204	Bench-scale fermentation for second generation ethanol and hydrogen production by <i>Clostridium thermocellum</i> DSMZ 1313 from sugarcane bagasse. <b>2021</b> , 40, e13516		2
203	Biohydrogen Production Through Mixed Culture Dark Anaerobic Fermentation of Industrial Waste. <b>2021</b> , 323-369		1
202	Hydrogen Production by Utilizing Bio-Processing Techniques. <b>2021</b> , 169-193		0
201	Integral valorization of residual biomass: Hydrogen, polyhydroxyalkanoates, and compost production. <b>2021</b> , 355-390		
200	Bioconversion of Lignocellulosic Residues into Hydrogen. <b>2021</b> , 59-80		
199	Application of Hemicellulose in Biohydrogen Production. <b>2021</b> , 315-327		1
198	The Place of Biofuel in Sustainable Living; Prospects and Challenges. <b>2021</b> , 226-226		2
197	Enzymes as nanoadditives: a promising alternative for biofuel production. <b>2021</b> , 631-662		4
196	Bioconversion of Hemicelluloses into Hydrogen. <b>2021</b> , 267-280		1
195	Hydrogen Production by Immobilized Cells of <i>Clostridium intestinale</i> Strain URNW Using Alginate Beads. <b>2021</b> , 193, 1558-1573		6

194	Bacterial Hydrogen Production: Prospects and Challenges. <b>2021</b> , 195-229		
193	Microbial side effects of underground hydrogen storage [Knowledge gaps, risks and opportunities for successful implementation. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 8594-8606	6.7	15
192	Pretreatment of second and third generation feedstock for enhanced biohythane production: Challenges, recent trends and perspectives. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11252-11268	6.7	11
191	Microbial Communities Performing Hydrogen Solventogenic Metabolism of Volatile Fatty Acids.		1
190	Synthetic Fuels Based on Dimethyl Ether as a Future Non-Fossil Fuel for Road Transport From Sustainable Feedstocks. <b>2021</b> , 9,		6
189	Catalytic Methane Decomposition to Carbon Nanostructures and CO-Free Hydrogen: A Mini-Review. <b>2021</b> , 11,		10
188	A critical review on limitations and enhancement strategies associated with biohydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16565-16590	6.7	12
187	Converting waste molasses liquor into biohydrogen via dark fermentation using a continuous bioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 16546-16554	6.7	5
186	GASEOUS FUEL OBTAINING VIA FERMENTATION OF ORGANIC LANDFILL WASTE. <b>2021</b> , 36-48		
185	Biochemical and Thermochemical Routes of H <sub>2</sub> Production from Food Waste: A Comparative Review.		8
184	Valorization of volatile fatty acids from the dark fermentation waste Streams-A promising pathway for a biorefinery concept. <b>2021</b> , 143, 110971		19
183	An investigation on the dose-dependent effect of iron shaving on bio-hydrogen production from food waste. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 19886-19896	6.7	5
182	Microbial electrohydrogenesis cell and dark fermentation integrated system enhances biohydrogen production from lignocellulosic agricultural wastes: Substrate pretreatment towards optimization. <b>2021</b> , 145, 111078		12
181	Hydrogen supply chain and challenges in large-scale LH <sub>2</sub> storage and transportation. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 24149-24168	6.7	23
180	Protein Surface Interactions-Theoretical and Experimental Studies. <b>2021</b> , 8, 706002		2
179	Enhancement effect of zero-valent iron nanoparticle and iron oxide nanoparticles on dark fermentative hydrogen production from molasses-based distillery wastewater. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 29812-29821	6.7	5
178	Techno-economic analysis of two-stage anaerobic system for biohydrogen and biomethane production from palm oil mill effluent. <b>2021</b> , 9, 105679		8
177	Improvement of Biohydrogen and Usable Chemical Products from Glycerol by Co-Culture of <i>Enterobacter</i> spH1 and <i>Citrobacter freundii</i> H3 Using Different Supports as Surface Immobilization. <b>2021</b> , 7, 154		1

176	Cold stress treatment enhances production of metabolites and biodiesel feedstock in <i>Porphyridium cruentum</i> via adjustment of cell membrane fluidity. <b>2021</b> , 780, 146612		3
175	Enhancement of biohydrogen production from palm oil mill effluent (POME): A review. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	0
174	Emerging technologies for sustainable production of biohydrogen production from microalgae: A state-of-the-art review of upstream and downstream processes. <b>2021</b> , 342, 126057		4
173	Thermogravimetric and kinetic analyses of the <i>Skeletonema costatum</i> microalgae combustion using the fitting method. <b>2021</b> , 847, 012016		
172	Catalytic biohydrogen production from organic waste materials: A literature review and bibliometric analysis. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 30903-30925	6.7	7
171	Three-dimensional modeling of photo fermentative biohydrogen generation in a microbioreactor. <b>2021</b> , 181, 1034-1034		6
170	Microalgal Hydrogen Production in Relation to Other Biomass-Based Technologies A Review. <b>2021</b> , 14, 6025		7
169	Potentialities of biotechnological recovery of hydrogen and short- and medium-chain organic acids from the co-fermentation of cheese whey and Yerba Mate ( <i>Ilex paraguariensis</i> ) waste. <b>2021</b> , 171, 113897		2
168	Technical difficulties of mixed culture driven waste biomass-based biohydrogen production: Sustainability of current pretreatment techniques and future prospective. <b>2021</b> , 151, 111519		0
167	Palm oil industrial wastes as a promising feedstock for biohydrogen production: A comprehensive review. <b>2021</b> , 291, 118160		3
166	Effect of genus <i>Clostridium</i> abundance on mixed-culture fermentation converting food waste into biohydrogen. <b>2021</b> , 342, 125942		3
165	Green hydrogen enrichment with carbon membrane processes: Techno-economic feasibility and sensitivity analysis. <b>2021</b> , 276, 119346		4
164	Bioconversion of Fruits and Vegetables Wastes into Value-Added Products. <b>2021</b> , 145-163		1
163	Hydrogen Metabolism in Microalgae. 133-161		1
162	Production of Biohydrogen from Lignocellulosic Feedstocks. <b>2020</b> , 47-67		2
161	Photobiological Methods of Renewable Hydrogen Production. <b>2008</b> , 229-271		5
160	Encyclopedia of Sustainability Science and Technology. <b>2014</b> , 1-21		1
159	Integration of Hydrogen Energy Technologies in Autonomous Power Systems. <b>2008</b> , 23-81		4

158	In Situ Chemical Reduction of Chlorinated Organic Compounds. <b>2020</b> , 283-398	3
157	Environmental Aspects of the Production and Use of Biofuels in Transport. <b>2020</b> , 115-168	5
156	Two-Phase Anaerobic Digestion of Food Wastes for Hydrogen and Methane Production. <b>2016</b> , 75-90	6
155	Heutige und zukünftige Kraftstoffe für Brennstoffzellen in der Luftfahrt. <b>2015</b> , 7-100	1
154	Integrative Approach for Biohydrogen and Polyhydroxyalkanoate Production. <b>2015</b> , 73-85	17
153	Photobioreactors Design for Hydrogen Production. <b>2014</b> , 291-320	7
152	Members of the Order Thermotogales: From Microbiology to Hydrogen Production. <b>2014</b> , 197-224	9
151	Bio-Hydrogen: Technology Developments in Microbial Fuel Cells and Their Future Prospects. <b>2020</b> , 61-94	2
150	Microbial Biofuels: An Economic and Eco-Friendly Approach. <b>2020</b> , 165-196	2
149	Algal Bioeconomy: A Platform for Clean Energy and Fuel. <b>2020</b> , 335-370	3
148	Techno-Economic Assessment of Biomass-Based Integrated Biorefinery for Energy and Value-Added Product. <b>2020</b> , 581-616	7
147	Two-stage fermentation process for bioenergy and biochemicals production from industrial and agricultural wastewater. <b>2020</b> , 5, 249-308	2
146	CHAPTER 2: Catalytic Processes and Catalyst Development in Biorefining. 25-64	4
145	The surprising diversity of clostridial hydrogenases: a comparative genomic perspective. <b>2010</b> , 156, 1575-1588	150
144	Photosynthetic Water-Splitting for Hydrogen Production. 273-291	11
143	Thermophilic Biohydrogen Production: Challenges at the Industrial Scale. <b>2015</b> , 3-35	3
142	Biohydrogen production from engineered microalgae <i>Chlamydomonas reinhardtii</i> . <b>2014</b> , 2, 1-9	5
141	Effect of biogas sparging on the performance of bio-hydrogen reactor over a long-term operation. <b>2017</b> , 12, e0171248	11

140	Fermentation, biogas and biohydrogen production from solid food processing. <b>2007</b> , 611-648	3
139	Optimization (Substrate and pH) and Anaerobic Fermentative Hydrogen Production by Various Industrial Wastes Isolates Utilizing Biscuit Industry Waste as Substrate. <b>2018</b> , 12, 1587-1595	5
138	Anaerobic Process for Biohydrogen Production using Keratin Degraded Effluent. <b>2019</b> , 13, 1135-1143	2
137	Recent developments in biological hydrogen production processes. <b>2008</b> , 14, 57-67	123
136	Effect of Cultivation Parameters on Fermentation and Hydrogen Production in the Phylum. <b>2020</b> , 22,	11
135	Hydrogen Production by Green Alga GAF99 in Sea Water Bioreactor: II Modeling the Effect of Temperature. <b>2012</b> , 11, 258-262	2
134	Effects of Age of Inoculum, Size of Inoculum and Headspace on Hydrogen Production using <i>Rhodobacter sphaeroides</i> . <b>2010</b> , 1, 16-23	8
133	Effects of Different Initial pH, Argon Gas and Nitrogen Gas on Cell Growth and Hydrogen Production using <i>Rhodobacter sphaeroides</i> . <b>2010</b> , 1, 8-15	2
132	Removal of headspace CO <sub>2</sub> increases biological hydrogen production by <i>C. acetobutylicum</i> . <b>2008</b> , 11, 2336-40	5
131	Optimization of Different Parameters for Biohydrogen Production by <i>Klebsiella oxytoca</i> ATCC 13182. <b>2014</b> , 9, 229-237	6
130	Hydrogen Production Technologies Overview. <b>2019</b> , 07, 107-154	99
129	Photo-hydrogen and lipid production from lactate, acetate, butyrate, and sugar manufacturing wastewater with an alternative nitrogen source by sp KKU-PS1. <b>2019</b> , 7, e6653	8
128	TWO-STAGE DEGRADATION OF SOLID ORGANIC WASTE AND LIQUID FILTRATE. <b>2021</b> , 14, 70-79	0
127	High-rate biohydrogen production from xylose using a dynamic membrane bioreactor. <b>2022</b> , 344, 126205	1
126	Agricultural waste management strategies for environmental sustainability. <b>2021</b> , 206, 112285	20
125	References. <b>2005</b> , 405-440	
124	Hydrogen Production with Volatile Fatty Acids by Enrichment Culture of Halotolerant Photosynthetic Bacteria from Tideland Sediment. <b>2006</b> , 42, 9-16	
123	Introduction. <b>2009</b> , 1-42	

- 122 Biohydrogen. **2009**, 163-219 2
- 121 Technologies for the conversion of food waste to energy: a research review. **2009**, 2, 35-58
- 120 Characterization of H<sub>2</sub>-producing Bacteria in Mixed Cultures\*. **2010**, 2009, 115-119
- 119 Development of a fermentation-based process for biomass conversion to hydrogen gas. **2010**, 218-221 1
- 118 Effect of Initial Glucose Concentration on Glucose Transmembrane Transportation and Metabolism of Hydrogen-Producing Photosynthetic Bacteria\*. **2010**, 16, 264-268
- 117 Biohydrogen Production From Agricultural Agrofood-Based Resources. **2011**, 532-544
- 116 Biofuels and Biochemicals in Africa. **2011**, 455-479
- 115 Encyclopedia of Sustainability Science and Technology. **2012**, 5116-5133
- 114 CHAPTER 10:Biohydrogen Production from Cellulosic Biomass. **2012**, 256-275 1
- 113 Method Of Reducing Fuel Consumption For Road Transport By Using Biohydrogen Grid-Onboard System. **2013**,
- 112 Renewable Energy Systems. **2013**, 1100-1117
- 111 Production of Atomic Photochemical Hydrogen and Photoinjection of Hydrogen in Solids. **2013**, 241-282
- 110 Biomass-Based Hydrogen Production. **2014**, 115-136
- 109 Biohydrogen Production via Lignocellulose and Organic Waste Fermentation. **2015**, 41-75 1
- 108 Energy Problems Fuel Cell. **2015**, 125-133
- 107 Research Progress in the Preparation of Fuel Ethanol from Renewable Biomass. **2015**, 05, 69-75
- 106 Microalgal-Derived Biomethanization and Biohydrogen Production [A Review of Modeling Approaches. **2015**, 443-465
- 105 High-Yield Production of Biohydrogen from Carbohydrates and Water Based on In Vitro Synthetic (Enzymatic) Pathways. **2015**, 77-94 1

104 Introduction to Marine Bioenergy. **2015**, 3-12

103 HydDB: A web tool for hydrogenase classification and analysis.

102 6 Solar Bio-Hydrogen Production: An Overview. **2016**, 121-140

101 Hydrogen-driven Economy and Utilization. **2017**, 291-339

0

100 Encyclopedia of Sustainability Science and Technology. **2018**, 1-14

99 Engineering Two-Dimensional Transition Metal Dichalcogenide Electrocatalysts for Water Splitting Hydrogen Generation. **2018**, 1-29

98 Biohydrogen Production from Agricultural Residues. **2019**, 905-918

97 Marine Bioenergy Production. **2019**, 297-344

96 Producción de Hidrógeno mediante digestión anaerobia de residuos de planta de jitomate. 1-12

95 Energy Production from Wasted Biomass. **2020**, 91-112

1

94 Hydrogen Production by the Enterobacter cloacae Strain. **2021**, 99-104

93 Biohydrogen production from microalgae for environmental sustainability. **2021**, 132717

10

92 Dark Fermentative Biohydrogen Production from Palm oil Mill Effluent: Operation Factors and Future Progress of Biohydrogen Energy. **2020**, 28,

91 Removal of Organic Pollutants from Contaminated Water Bodies by Using Aquatic Macrophytes Coupled with Bioenergy Production and Carbon Sequestration. **2020**, 221-244

1

90 Prime Techniques for Pre- and Post-Treatments of Anaerobic Effluents and Solids. **2020**, 255-289

89 An overview of bioreactor configurations and operational strategies for dark fermentative biohydrogen production. **2020**, 249-288

3

88 Environmental Issues With Hydrogen Production. **2020**,

87 Towards Waste Valorization: A Promising and Sustainable Approach of Waste Management. **2020**, 19-34

86	Bioenergy Production in Bioelectrochemical System. <b>2020</b> , 61-81		
85	Ultrasound-Assisted Electrolytic Hydrogen Production. <b>2020</b> , 73-84		1
84	Research and economic perspectives on an integrated biorefinery approach for the simultaneous production of polyhydroxyalkanoates and biohydrogen. <b>2021</b> , 193, 1937-1937		0
83	Erzeugung. <b>2008</b> , 49-83		
82	Agricultural Waste Management in Food Processing. 609-661		
81	Biorenewable Gaseous Fuels. <b>2009</b> , 231-260		
80	Produção de hidrogênio a partir do bagaço de cana-de-açúcar. <b>2020</b> , 68, 197-209		
79	The optimization and statistical analysis of fermentative hydrogen production using Taguchi method. <b>2020</b> , 18,		
78	Biohydrogen production from wastewater and organic solid wastes. <b>2022</b> , 165-195		0
77	Realizing higher value output from biomass conversion to biogas through the production of biohydrogen, biomethane, and biohythane. <b>2022</b> , 317-334		0
76	Bio-Hydrogen Production Using Landfill Leachate Considering Different Photo-Fermentation Processes. <b>2021</b> , 9, 644065		2
75	Bio-hydrogen production under pressure by pressure-adapted subsurface microbes. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	0
74	Microorganism assisted biohydrogen production and bioreactors: an overview.		0
73	Recent Developments on Hydrogen Production Technologies: State-of-the-Art Review with a Focus on Green-Electrolysis. <b>2021</b> , 11, 11363		11
72	Green hydrogen production via electrochemical conversion of components from alkaline carbohydrate degradation. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 47, 3644-3644	6.7	2
71	Photocatalytic hydrogen production from alcohol aqueous solutions over TiO <sub>2</sub> -activated carbon composites decorated with Au and Pt. <b>2022</b> , 425, 113726		1
70	Physicochemical pretreatment selects microbial communities to produce alcohols through metabolism of volatile fatty acids.		0
69	Effect of thermophilic temperatures on hydrogen and ethanol production in anaerobic fluidized bed reactor from cassava wastewater. 1		0



68	Introduction to Hydrogen and World Energy Scenario. <b>2022</b> , 31-58		
67	Biohydrogen production from diluted-acid hydrolysate of rice straw in a continuous anaerobic packed bed biofilm reactor. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 5879-5890	6.7	0
66	Evaluation of bio-hydrogen production using rice straw hydrolysate extracted by acid and alkali hydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> ,	6.7	2
65	Laser-Induced Generation of Hydrogen in Water by Using Graphene Target.. <b>2022</b> , 27,		0
64	The light in the dark: In-situ biorefinement of crude oil to hydrogen using typical oil reservoir Thermotoga strains. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 5101-5110	6.7	
63	Biofuels: An Overview. <b>2022</b> , 85-144		
62	Solar hydrogen production in India. 1		1
61	Feasibility study of biohydrogen production using Clostridium sartagoforme NASGE 01 from cassava industry effluent. 1		0
60	Wastes to Wealth for Bioenergy Generation. <b>2022</b> , 211-231		
59	Evaluation of hydrogen and volatile fatty acids production system from food waste. 1		0
58	Analysis of the beryllium stability under standard and critical operation in a fusion reactor. <b>2021</b> , 5, 236-244		
57	Effect of Green synthesized silver oxide nanoparticle on biological hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	2
56	Technology comparison for green hydrogen production. <b>2022</b> , 1008, 012007		0
55	Thermal Design of a Biohydrogen Production System Driven by Integrated Gasification Combined Cycle Waste Heat Using Dynamic Simulation. <b>2022</b> , 15, 2976		1
54	A Review of the Application of Heterostructure Catalysts in Hydrogen Evolution Reaction. <b>2022</b> , 7,		2
53	Analysis of several main hydrogen production technologies. <b>2022</b> , 1011, 012005		
52	A review of advanced optimization strategies for fermentative biohydrogen production processes. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> ,	6.7	0
51	Data_Sheet_1.pdf. <b>2019</b> ,		

- 50 Insights on Hydrogen Production by Thermochemical and Biological Techniques. **2022**, 321-331
- 49 Microalgal biofuels: A sustainable pathway for renewable energy. **2022**, 187-222 ○
- 48 Nitrogen-doped Carbon Armored Cobalt Oxide Hollow Nanocubes Electrochemically anchored on Fluorine-doped Tin Oxide Substrate for Acidic Oxygen Evolution Reaction. **2022**, ○
- 47 Experimental validation of an interval observer-based sensor fault detection strategy applied to a biohydrogen production dark fermenter. **2022**, 114, 131-142 ○
- 46 Estimation of Bioethanol, Biohydrogen, and Chemicals Production from Biomass Wastes in Brazil. 2200155 ○
- 45 Role of Enzymes in Biofuel Production: Recent Developments and Challenges. **2022**, 81-112
- 44 Hydrogen production by supercritical water gasification. **2022**, 189-225
- 43 Lignocellulosic biomass as an alternate source for next-generation biofuel. **2022**, 207-221
- 42 A critical review of the hydrogen production from biomass-based feedstocks: Challenge, solution, and future prospect. **2022**, 164, 384-407 4
- 41 Harnessing the power of cellulolytic nitrogen-fixing bacteria for biovalorization of lignocellulosic biomass. **2022**, 186, 115235 1
- 40 *Rhodospseudomonas palustris*: A biotechnology chassis. **2022**, 60, 108001 1
- 39 Biohydrogen from Food Waste. **2022**, 31-67
- 38 Biohydrogen from Distillery Wastewater: Opportunities and Feasibility. **2022**, 93-121
- 37 Biohydrogen from Fruit and Vegetable Industry Wastes. **2022**, 69-91
- 36 Potential of Bio Hydrogen Production from Dark Fermentation of Sewage Waste Water [A Review]. **2022**, 19, 347-355
- 35 A bibliometric analysis of the hydrogen production from dark fermentation. *International Journal of Hydrogen Energy*, **2022**, 6.7 ○
- 34 Zero Emission Hydrogen Fuelled Fuel Cell Vehicle and Advanced Strategy on Internal Combustion Engine: A Review.
- 33 Advances in Enhancing the Stability of Cu-Based Catalysts for Methanol Reforming. **2022**, 12, 747 ○

32	Simazine Enhances Dark Fermentative H <sub>2</sub> Production by Unicellular Halotolerant Cyanobacterium <i>Aphanothece halophytica</i> . 10,	0
31	Ultrasonic Processing of Food Waste to Generate Value-Added Products. <b>2022</b> , 11, 2035	1
30	Second-generation bioenergy from oilseed crop residues: Recent technologies, techno-economic assessments and policies. <b>2022</b> , 267, 115869	1
29	Influence of biomass and nanoadditives in dark fermentation for enriched bio-hydrogen production: A detailed mechanistic review on pathway and commercialization challenges. <b>2022</b> , 327, 125112	2
28	SUSTAINABLE HYDROGEN PRODUCTION TECHNOLOGIES: BIOMASS BASED APPROACHES.	
27	Biofuel Production Using Ionizing Technology from Agricultural Waste. <b>2022</b> , 79-104	
26	Effect of Nanoparticle Addition to Biohydrogen Production via Dark Fermentation Process and Life Cycle Analysis Approach. 1426-1435	
25	A comprehensive review on hydrogen production and utilization in North America: Prospects and challenges. <b>2022</b> , 269, 115927	4
24	Formation and characterization of H <sub>2</sub> -producing granule in a pilot-scale dynamic membrane bioreactor. <b>2023</b> , 452, 139384	0
23	Enhancement of biological hydrogen production from organic wastes with the application of nanomaterials.	0
22	Bio-hydrogen production by dark anaerobic fermentation of organic wastewater. 10,	1
21	Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges. <b>2022</b> , 12, 100410	3
20	Biohydrogen Production Technologies: Past, Present, and Future Perspective. <b>2022</b> , 185-205	0
19	Biotechnological Approach for Treatment of Sludge from Municipal and Industrial Wastewater Treatment Plant. <b>2022</b> , 257-282	0
18	Progress, Barriers, and Prospects for Achieving a Hydrogen Society and Opportunities for Biochar Technology.	0
17	Thermophilic Water Gas Shift Reaction at High Carbon Monoxide and Hydrogen Partial Pressures in <i>Parageobacillus thermoglucosidasius</i> KP1013. <b>2022</b> , 8, 596	0
16	Study on derived hydrogen and ignition influencing factors of moist magnesium debris. <b>2023</b> , 335, 126964	0
15	Application of magnetite supplementation for enhancing biohydrogen production using <i>Gelidium amansii</i> hydrolysate. <b>2023</b> , 337, 127207	0

- |    |  |   |
|----|--|---|
| 14 | Enhancement of Photo-Fermentative Hydrogen Production with Co-culture of <i>Rhodobacter capsulatus</i> and <i>Rhodospirillum rubrum</i> by Using Medium Renewal Strategy.    | ○ |
| 13 | Recent Advances in Transition Metal Tellurides (TMTs) and Phosphides (TMPs) for Hydrogen Evolution Electrocatalysis. <b>2023</b> , 13, 113                                   | ○ |
| 12 | Biotechnology in Hydrogen Generation. <b>2023</b> , 111-133  | 1 |
| 11 | Volatile fatty acids and ammonia recovery, simultaneously cathodic hydrogen production and increasing thermophilic dark fermentation of food waste efficiency. <b>2023</b> , | ○ |
| 10 | Continuous Production of Clean Hydrogen from Wastewater by Microbial Usage. <b>2023</b> , 277-318  | ○ |
| 9  | Microbial Production of Biohydrogen (BioH <sub>2</sub> ) from Waste-Activated Sludge. <b>2023</b> , 511-538  | ○ |
| 8  | Algal Biohydrogen Production: Opportunities and Challenges. <b>2023</b> , 77-103   | ○ |
| 7  | Bioreactors and biophoton-driven biohydrogen production strategies. <b>2023</b> ,  | ○ |
| 6  | Comparative evaluation of the biohydrogen production potential of thermophilic microorganisms isolated from hot springs located in Izmir. <b>2023</b> ,                      | ○ |
| 5  | Laser induced generation of hydrogen by using NdAlO <sub>3</sub> nanocrystals as photocatalysts in alcohols. <b>2023</b> ,   | ○ |
| 4  | A Current Perspective on the Renewable Energy Hydrogen Production Process. <b>2023</b> , 32, 542-596   | ○ |
| 3  | Nanocatalyst-Based Biofuel Generation: An Update, Challenges and Future Possibilities. <b>2023</b> , 15, 6180  | ○ |
| 2  | Hydrogen production via dark fermentation by bacteria colonies on porous PDMS-scaffolds. <b>2023</b> ,   | ○ |
| 1  | Factors affecting biohydrogen production: Overview and perspectives. <b>2023</b> ,   | ○ |