

Biological hydrogen production; fundamentals and limi

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Photobioreactor engineering: Design and performance. <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 313-321.	1.4	174
2	Mining genomic databases to identify novel hydrogen producers. <i>Trends in Biotechnology</i> , 2003, 21, 152-156.	4.9	68
3	Gas Exchange in the Filamentous Cyanobacterium <i>Nostoc punctiforme</i> Strain ATCC 29133 and Its Hydrogenase-Deficient Mutant Strain NHM5. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2137-2145.	1.4	53
4	Yields from Glucose, Xylose, and Paper Sludge Hydrolysate During Hydrogen Production by the Extreme Thermophile <i>Caldicellulosiruptor saccharolyticus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2004, 114, 497-508.	1.4	157
5	Hydrogen production by <i>Clostridium thermolacticum</i> during continuous fermentation of lactose. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1479-1485.	3.8	169
6	Improvement of fermentative hydrogen production: various approaches. <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 520-9.	1.7	480
7	Biohydrogen production: prospects and limitations to practical application. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 173-185.	3.8	1,297
8	Anaerobic hydrogen production with an efficient carrier-induced granular sludge bed bioreactor. <i>Biotechnology and Bioengineering</i> , 2004, 87, 648-657.	1.7	184
9	Photoproduction of hydrogen from acetate by a chemoheterotrophic bacterium <i>Rhodospseudomonas palustris</i> P4. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1115-1115.	3.8	85
10	Temporal phenomena of hydrogen photobioproduction. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1219-1226.	3.8	5
11	Feasibility of biohydrogen production by anaerobic co-digestion of food waste and sewage sludge. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1607-1616.	3.8	388
12	Hypotheses for direct PEM fuel cells applications of photobioproduced hydrogen by. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 421-424.	3.8	21
13	A nutrient formulation for fermentative hydrogen production using anaerobic sewage sludge microflora. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 285-292.	3.8	231
14	Sulphate respiration from hydrogen in <i>Desulfovibrio</i> bacteria: a structural biology overview. <i>Progress in Biophysics and Molecular Biology</i> , 2005, 89, 292-329.	1.4	141
15	Hydrogen production by <i>Rhodobacter sphaeroides</i> strain O.U.001 using spent media of <i>Enterobacter cloacae</i> strain DM11. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 533-541.	1.7	119
16	Hydrogen production in batch culture of mixed bacteria with sucrose under different iron concentrations. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 855-860.	3.8	114
17	Hydrogenases in <i>Desulfovibrio vulgaris</i> Hildenborough: structural and physiologic characterisation of the membrane-bound [NiFeSe] hydrogenase. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 667-682.	1.1	83
18	Monitoring of microbial community structure and succession in the biohydrogen production reactor by denaturing gradient gel electrophoresis (DGGE). <i>Science in China Series C: Life Sciences</i> , 2005, 48, 155-162.	1.3	31

#	ARTICLE	IF	CITATIONS
19	Fundamentals of the fermentative production of hydrogen. <i>Water Science and Technology</i> , 2005, 52, 21-29.	1.2	284
20	The Photobiological Production of Hydrogen: Potential Efficiency and Effectiveness as a Renewable Fuel. <i>Critical Reviews in Microbiology</i> , 2005, 31, 19-31.	2.7	217
21	Effect of some environmental parameters on fermentative hydrogen production by <i>Enterobacter cloacae</i> DM11. <i>Canadian Journal of Microbiology</i> , 2006, 52, 525-532.	0.8	84
22	CO-dependent H ₂ evolution by <i>Rhodospirillum rubrum</i> : Role of CODH:CooF complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1582-1591.	0.5	57
23	FEASIBILITY OF HYDROGEN PRODUCTION FROM ANAEROBIC MIXED FERMENTATION. <i>Transactions of the ASABE</i> , 2006, 49, 467-476.	1.1	4
24	Biological Hydrogen Production from Biomass. , 2006, , .		1
25	Biohydrogen Production in Continuous-Flow Reactor Using Mixed Microbial Culture. <i>Water Environment Research</i> , 2006, 78, 110-117.	1.3	43
26	An overview of hydrogen production from biomass. <i>Fuel Processing Technology</i> , 2006, 87, 461-472.	3.7	1,032
27	Biohydrogen generation from palm oil mill effluent using anaerobic contact filter. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1284-1291.	3.8	111
28	Principle and perspectives of hydrogen production through biocatalyzed electrolysis. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1632-1640.	3.8	608
29	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> , 2006, 31, 1648-1657.	3.8	97
30	Effect of gas sparging on continuous fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2158-2169.	3.8	285
31	A novel approach for biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1460-1468.	3.8	96
32	Increasing biohydrogen production by metabolic engineering. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1478-1483.	3.8	59
33	Hydrogen production by <i>Clostridium thermocellum</i> 27405 from cellulosic biomass substrates. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1496-1503.	3.8	288
34	The effect of nutrient limitation on hydrogen production by batch cultures of <i>Escherichia coli</i> . <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1504-1508.	3.8	119
35	Hydrogen production by using <i>Rhodobacter capsulatus</i> mutants with genetically modified electron transfer chains. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1545-1552.	3.8	100
36	Effect of substrate concentration on hydrogen production and 16S rDNA-based analysis of the microbial community in a continuous fermenter. <i>Process Biochemistry</i> , 2006, 41, 199-207.	1.8	280

#	ARTICLE	IF	CITATIONS
37	Biohydrogen production from sucrose using base-enriched anaerobic mixed microflora. <i>Process Biochemistry</i> , 2006, 41, 915-919.	1.8	79
38	Acidogenesis characteristics of natural, mixed anaerobes converting carbohydrate-rich synthetic wastewater to hydrogen. <i>Process Biochemistry</i> , 2006, 41, 1736-1745.	1.8	39
39	Synthesis of Transportation Fuels from Biomass: Chemistry, Catalysts, and Engineering. <i>Chemical Reviews</i> , 2006, 106, 4044-4098.	23.0	6,799
40	Genetic control of hydrogen metabolism in cyanobacteria. <i>Russian Journal of Genetics</i> , 2006, 42, 1272-1284.	0.2	32
41	Kinetic study of biological hydrogen production by anaerobic fermentation. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2170-2178.	3.8	244
42	Perspectives and advances of biological H ₂ production in microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 442-449.	1.7	175
43	Stoichiometric analysis of biological hydrogen production by fermentative bacteria. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 539-549.	3.8	95
44	Potential of renewable hydrogen production for energy supply in Hong Kong. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1401-1412.	3.8	232
45	Controlling light-use by <i>Rhodobacter capsulatus</i> continuous cultures in a flat-panel photobioreactor. <i>Biotechnology and Bioengineering</i> , 2006, 95, 613-626.	1.7	33
46	Trends in bio-hydrogen generation—A review. <i>Journal of Integrative Environmental Sciences</i> , 2006, 3, 255-271.	0.8	31
47	Biohydrogen Generation from Beer Brewery Wastewater Using an Anaerobic Contact Filter. <i>Journal of the American Society of Brewing Chemists</i> , 2007, 65, 110-115.	0.8	10
48	Occurrence, Classification, and Biological Function of Hydrogenases: An Overview. <i>Chemical Reviews</i> , 2007, 107, 4206-4272.	23.0	1,382
49	Fermentative Hydrogen Production From Wastewater and Solid Wastes by Mixed Cultures. <i>Critical Reviews in Environmental Science and Technology</i> , 2007, 37, 1-39.	6.6	673
50	Activation and Inactivation of Hydrogenase Function and the Catalytic Cycle: Spectroelectrochemical Studies. <i>Chemical Reviews</i> , 2007, 107, 4304-4330.	23.0	434
51	Biological Production of Hydrogen from Renewable Resources. , 2007, , 527-557.		6
52	Developments and constraints in fermentative hydrogen production. <i>Biofuels, Bioproducts and Biorefining</i> , 2007, 1, 201-214.	1.9	90
53	Production of bio-hydrogen by mesophilic anaerobic fermentation in an acid-phase sequencing batch reactor. <i>Biotechnology and Bioengineering</i> , 2007, 96, 421-432.	1.7	55
54	Biological hydrogen production from nitrogen-deficient substrates. <i>Biotechnology and Bioengineering</i> , 2007, 97, 435-437.	1.7	6

#	ARTICLE	IF	CITATIONS
55	Universal degenerate oligonucleotide-primed-polymerase chain reaction for detection and amplification of NiFe-hydrogenase genes. <i>Enzyme and Microbial Technology</i> , 2007, 42, 1-5.	1.6	8
56	A discrete multi states model for the biological production of hydrogen by phototrophic microalga. <i>Biochemical Engineering Journal</i> , 2007, 36, 19-27.	1.8	15
57	Hydrogen production from the fermentation of corn stover biomass pretreated with a steam-explosion process. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 932-939.	3.8	288
58	Materials, operational energy inputs, and net energy ratio for photobiological hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 1225-1234.	3.8	67
59	Light transfer in bubble sparged photobioreactors for H ₂ production and CO ₂ mitigation. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2273-2285.	3.8	89
60	Effect of light on generation of hydrogen by <i>Halobacterium halobium</i> NCIM 2852. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3293-3300.	3.8	13
61	Effect of ferrous ion on photo heterotrophic hydrogen production by <i>Rhodobacter sphaeroides</i> . <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4112-4118.	3.8	68
62	Maximizing renewable hydrogen production from biomass in a bio/catalytic refinery. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4135-4141.	3.8	77
63	Two-phase anaerobic digestion for production of hydrogen and methane mixtures. <i>Bioresource Technology</i> , 2007, 98, 2641-2651.	4.8	130
64	Microbial community structure of ethanol type fermentation in bio-hydrogen production. <i>Environmental Microbiology</i> , 2007, 9, 1112-1125.	1.8	194
65	The isolation and microbial community analysis of hydrogen producing bacteria from activated sludge. <i>Journal of Applied Microbiology</i> , 2007, 103, 1415-1423.	1.4	52
66	Characterization of the cellulolytic and hydrogen-producing activities of six mesophilic <i>Clostridium</i> species. <i>Journal of Applied Microbiology</i> , 2007, 103, 2258-2266.	1.4	77
67	Sucrose Chemistry and Applications of Sucrochemicals. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2007, 61, 217-292.	0.4	87
68	Biotechnological intensification of biogas production. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 473-482.	1.7	132
69	CO ₂ Mitigation and Renewable Oil from Photosynthetic Microbes: A New Appraisal. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2007, 12, 573-608.	1.0	490
70	The Prospect of Purple Non-Sulfur (PNS) Photosynthetic Bacteria for Hydrogen Production: The Present State of the Art. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 31-42.	1.7	257
71	Hydrogen production from biomass. <i>The Environmentalist</i> , 2007, 27, 207-215.	0.7	19
72	Promoting R & D in Photobiological Hydrogen Production Utilizing Mariculture-Raised Cyanobacteria. <i>Marine Biotechnology</i> , 2007, 9, 128-145.	1.1	67

#	ARTICLE	IF	CITATIONS
73	Metabolic flux analysis of biological hydrogen production by <i>Escherichia coli</i> . <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3820-3830.	3.8	51
74	The effect of butyrate concentration on hydrogen production via photofermentation for use in a Martian habitat resource recovery process. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3301-3307.	3.8	51
75	Comparison of biohydrogen production processes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 279-286.	3.8	457
76	Metabolic-flux analysis of hydrogen production pathway in <i>Citrobacter amalonaticus</i> Y19. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1471-1482.	3.8	57
77	Fermentative biohydrogen production: trends and perspectives. <i>Reviews in Environmental Science and Biotechnology</i> , 2008, 7, 27-45.	3.9	135
78	Relationship among growth parameters for <i>Clostridium butyricum</i> , <i>hydA</i> gene expression, and biohydrogen production in a sucrose-supplemented batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 525-532.	1.7	31
79	Pyruvate catabolism and hydrogen synthesis pathway genes of <i>Clostridium thermocellum</i> ATCC 27405. <i>Indian Journal of Microbiology</i> , 2008, 48, 252-266.	1.5	40
80	Thermodynamic efficiency of biomass gasification and biofuels conversion. <i>Biofuels, Bioproducts and Biorefining</i> , 2008, 2, 239-253.	1.9	91
81	Photobiological Hydrogen Production from Synthesis Gas: Carbon Sources, K_L and Kinetics Evaluation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2005, 13, 549-562.	0.0	4
82	Biohydrogen Production: Fundamentals, Challenges, and Operation Strategies for Enhanced Yield. , 0, 189-219.		7
83	Quantification of a specific bacterial strain in an anaerobic mixed culture for biohydrogen production by the aerobic fluorescence recovery (AFR) technique. <i>Biochemical Engineering Journal</i> , 2008, 39, 581-585.	1.8	22
84	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> , 2008, 33, 1483-1488.	3.8	85
85	Hydrogen production by continuous cultures of <i>Escherichia coli</i> under different nutrient regimes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1465-1470.	3.8	58
86	Continuous hydrogen production of auto-aggregative <i>Ethanoligenens harbinense</i> YUAN-3 under non-sterile condition. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1489-1495.	3.8	81
87	A portable limiting current solid-state electrochemical diffusion hole type hydrogen sensor device for biomass fuel reactors: Engineering aspect. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 905-911.	3.8	21
88	Fermentative hydrogen production by the newly isolated <i>Clostridium beijerinckii</i> Fanp3. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5383-5391.	3.8	104
89	Experimental vapour-liquid equilibrium data of $\text{HI}-\text{H}_2\text{O}-\text{I}_2$ mixtures for hydrogen production by Sulphur-Iodine thermochemical cycle. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4283-4290.	3.8	33
90	Biohydrogen production using sequential two-stage dark and photo fermentation processes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4755-4762.	3.8	216

#	ARTICLE	IF	CITATIONS
91	Fermentative hydrogen production in batch experiments using lactose, cheese whey and glucose: Influence of initial substrate concentration and pH. International Journal of Hydrogen Energy, 2008, 33, 4989-4997.	3.8	193
92	Cogeneration of hydrogen and methane from glucose to improve energy conversion efficiency. International Journal of Hydrogen Energy, 2008, 33, 5006-5011.	3.8	66
93	Enhancement effect of l-cysteine on dark fermentative hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 6535-6540.	3.8	50
94	Enhancing hydrogen production of Clostridium butyricum using a column reactor with square-structured ceramic fittings. International Journal of Hydrogen Energy, 2008, 33, 6549-6557.	3.8	34
95	Self-immobilization of acidogenic mixed consortia on mesoporous material (SBA-15) and activated carbon to enhance fermentative hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 6133-6142.	3.8	78
96	Advances in biological hydrogen production processes. International Journal of Hydrogen Energy, 2008, 33, 6046-6057.	3.8	644
97	Hydrogen production from biopolymers by Caldicellulosiruptor saccharolyticus and stabilization of the system by immobilization. International Journal of Hydrogen Energy, 2008, 33, 6953-6961.	3.8	47
98	Hydrogen production using Clostridium saccharoperbutylacetonicum N1-4 (ATCC 13564). International Journal of Hydrogen Energy, 2008, 33, 7392-7396.	3.8	34
99	Dissecting the roles of Escherichia coli hydrogenases in biohydrogen production. FEMS Microbiology Letters, 2008, 278, 48-55.	0.7	114
100	Metabolically engineered bacteria for producing hydrogen via fermentation. Microbial Biotechnology, 2008, 1, 107-125.	2.0	126
101	Nonlinear predictive control for continuous microalgae cultivation process in a photobioreactor. , 2008, , .		10
102	Hydrogen Generation by Water Splitting. , 2008, , 35-113.		17
103	Microbial Electrolysis Cells for High Yield Hydrogen Gas Production from Organic Matter. Environmental Science & Technology, 2008, 42, 8630-8640.	4.6	1,091
104	Control strategy for continuous microalgae cultivation process in a photobioreactor. , 2008, , .		7
105	Bioprospecting Thermophilic Microorganisms from Icelandic Hot Springs for Hydrogen and Ethanol Production. Energy & Fuels, 2008, 22, 134-140.	2.5	55
106	Biohydrogen-Generating Capability of Microflora after Prolonged Substrate Limitation. Environmental Engineering Science, 2008, 25, 1439-1446.	0.8	0
108	Formate-Dependent H ₂ Production by the Mesophilic Methanogen Methanococcus maripaludis. Applied and Environmental Microbiology, 2008, 74, 6584-6590.	1.4	83
109	Impact of Initial pH and Linoleic Acid (C18:2) on Hydrogen Production by a Mesophilic Anaerobic Mixed Culture. Journal of Environmental Engineering, ASCE, 2008, 134, 110-117.	0.7	25

#	ARTICLE	IF	CITATIONS
110	Estimation of microalgal photobioreactor production based on total inorganic carbon in the medium. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14582-14587.	0.4	8
111	Efficiency analysis of hydrogen production methods from biomass. International Journal of Alternative Propulsion, 2008, 2, 39.	0.9	14
112	Third Generation Biofuels via Direct Cellulose Fermentation. International Journal of Molecular Sciences, 2008, 9, 1342-1360.	1.8	252
113	Biological Hydrogen Production by Strict Anaerobic Bacteria: Fundamentals, Operational Strategies, and Limitations. , 0, , 265-287.		1
116	Anaerobic Hydrogen Production using Agricultural and Food Processing Wastes. , 2008, , .		0
117	Hydrogen Production from Liquid Swine Manure by Dark Fermentation. , 2008, , .		0
119	Energy Balance: Cumulative Fossil Fuel Demand and Solar Energy Conversion Efficiency of Transport Biofuels. Green Energy and Technology, 2009, , 49-74.	0.4	0
120	Transport Biofuels: Their Characteristics, Production and Costs. Green Energy and Technology, 2009, , 1-48.	0.4	0
121	A Framework to Report the Production of Biodiesel From Algae. , 2009, , .		0
122	Biohydrogen. Green Energy and Technology, 2009, , .	0.4	40
123	Advances in fermentative biohydrogen production: the way forward?. Trends in Biotechnology, 2009, 27, 287-297.	4.9	495
124	The fermentation stoichiometry of <i>Thermotoga neapolitana</i> and influence of temperature, oxygen, and pH on hydrogen production. Biotechnology Progress, 2009, 25, 1035-1042.	1.3	46
125	Solar hydrogen production and its development in China. Energy, 2009, 34, 1073-1090.	4.5	52
126	Integrating dark and light bio-hydrogen production strategies: towards the hydrogen economy. Reviews in Environmental Science and Biotechnology, 2009, 8, 149-185.	3.9	131
127	Microbiological and engineering aspects of biohydrogen production. Indian Journal of Microbiology, 2009, 49, 48-59.	1.5	64
128	Enrichment and hydrogen production by marine anaerobic hydrogen-producing microflora. Science Bulletin, 2009, 54, 2656-2661.	4.3	22
129	Functional consortium for hydrogen production from cellobiose: Concentration-to-extinction approach. Bioresource Technology, 2009, 100, 2546-2550.	4.8	46
130	Composition of extracellular polymeric substances influences the autoaggregation capability of hydrogen-producing bacterium <i>Ethanoligenens harbinense</i> . Bioresource Technology, 2009, 100, 5109-5113.	4.8	32

#	ARTICLE	IF	CITATIONS
131	Developing a thermophilic hydrogen-producing co-culture for efficient utilization of mixed sugars. International Journal of Hydrogen Energy, 2009, 34, 4524-4528.	3.8	58
132	Feasibility of biohydrogen production at low temperatures in unbuffered reactors. International Journal of Hydrogen Energy, 2009, 34, 1233-1243.	3.8	43
133	Biohydrogen production by dark fermentation: Experiences of continuous operation in large lab scale. International Journal of Hydrogen Energy, 2009, 34, 4509-4516.	3.8	71
134	Biohydrogen production by <i>Clostridium butyricum</i> EB6 from palm oil mill effluent. International Journal of Hydrogen Energy, 2009, 34, 764-771.	3.8	155
135	Hydrogen production characteristics of the organic fraction of municipal solid wastes by anaerobic mixed culture fermentation. International Journal of Hydrogen Energy, 2009, 34, 812-820.	3.8	187
136	Effect of iron concentration on continuous H ₂ production using membrane bioreactor. International Journal of Hydrogen Energy, 2009, 34, 1244-1252.	3.8	79
137	Improving hydrogen production from cassava starch by combination of dark and photo fermentation. International Journal of Hydrogen Energy, 2009, 34, 1780-1786.	3.8	149
138	Fermentative hydrogen production: Principles, progress, and prognosis. International Journal of Hydrogen Energy, 2009, 34, 7379-7389.	3.8	435
139	Evaluation of the influence of CO ₂ on hydrogen production by <i>Caldicellulosiruptor saccharolyticus</i> . International Journal of Hydrogen Energy, 2009, 34, 4718-4726.	3.8	49
140	Optimization and microbial community analysis for production of biohydrogen from palm oil mill effluent by thermophilic fermentative process. International Journal of Hydrogen Energy, 2009, 34, 7448-7459.	3.8	100
141	Hydrogen production and metabolic flux analysis of metabolically engineered <i>Escherichia coli</i> strains. International Journal of Hydrogen Energy, 2009, 34, 7417-7427.	3.8	87
142	Metabolic pathway engineering for enhanced biohydrogen production. International Journal of Hydrogen Energy, 2009, 34, 7404-7416.	3.8	233
143	Challenges for biohydrogen production via direct lignocellulose fermentation. International Journal of Hydrogen Energy, 2009, 34, 7390-7403.	3.8	85
144	Fermentative hydrogen production by two novel strains of <i>Enterobacter aerogenes</i> HGN-2 and HT 34 isolated from sea buried crude oil pipelines. International Journal of Hydrogen Energy, 2009, 34, 7197-7207.	3.8	39
145	Photo-bioproduction of hydrogen by <i>Chlamydomonas reinhardtii</i> using a semi-continuous process regime. International Journal of Hydrogen Energy, 2009, 34, 7592-7602.	3.8	59
146	Fermentative hydrogen yields from different sugars by batch cultures of metabolically engineered <i>Escherichia coli</i> DJT135. International Journal of Hydrogen Energy, 2009, 34, 7979-7982.	3.8	60
147	Metabolic flux analysis of the hydrogen production potential in <i>Synechocystis</i> sp. PCC6803. International Journal of Hydrogen Energy, 2009, 34, 8828-8838.	3.8	31
148	Study of hydrogen production in light assisted microbial electrolysis cell operated with dye sensitized solar cell. International Journal of Hydrogen Energy, 2009, 34, 9297-9304.	3.8	43

#	ARTICLE	IF	CITATIONS
149	Growth phase-dependant enzyme profile of pyruvate catabolism and end-product formation in <i>Clostridium thermocellum</i> ATCC 27405. <i>Journal of Biotechnology</i> , 2009, 140, 169-175.	1.9	62
150	Biomass-based energy fuel through biochemical routes: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 167-178.	8.2	694
151	High yield conversion of a crude glycerol fraction from biodiesel production to hydrogen by photofermentation. <i>Bioresource Technology</i> , 2009, 100, 3513-3517.	4.8	175
152	A sweet out-of-the-box solution to the hydrogen economy: is the sugar-powered car science fiction?. <i>Energy and Environmental Science</i> , 2009, 2, 272.	15.6	109
153	Synthesis and Characterization of Diiron Diselenolato Complexes Including Iron Hydrogenase Models. <i>Organometallics</i> , 2009, 28, 1039-1048.	1.1	87
154	Preparation and Characterization of Homologous Diiron Dithiolato, Diselenato, and Ditellurato Complexes: [FeFe]-Hydrogenase Models. <i>Organometallics</i> , 2009, 28, 6666-6675.	1.1	76
155	FUELS – HYDROGEN PRODUCTION Biomass: Fermentation. , 2009, , 268-275.		3
156	Biotechnology for Agro-Industrial Residues Utilisation. , 2009, , .		120
157	Recombinant and in vitro expression systems for hydrogenases: new frontiers in basic and applied studies for biological and synthetic H ₂ production. <i>Dalton Transactions</i> , 2009, , 9970.	1.6	48
158	Hydrogen production from renewable sources: biomass and photocatalytic opportunities. <i>Energy and Environmental Science</i> , 2009, 2, 35-54.	15.6	378
159	Wine Industry Residues. , 2009, , 293-311.		12
160	A Bacterial Hydrogen Production Test System for Measuring H ₂ Concentrations in Liquids and Gases. <i>Latvian Journal of Physics and Technical Sciences</i> , 2010, 47, 60-68.	0.4	0
162	Waste to Renewable Energy: A Sustainable and Green Approach Towards Production of Biohydrogen by Acidogenic Fermentation. , 2010, , 129-164.		25
163	Hydrogen production from proteins via electrohydrogenesis in microbial electrolysis cells. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2690-2695.	5.3	108
164	Biohydrogen production from sewage sludge using a continuous hydrogen fermentation system with a heat treatment vessel. <i>KSCE Journal of Civil Engineering</i> , 2010, 14, 673-679.	0.9	4
165	Characterization of hydrogen production by engineered <i>Escherichia coli</i> strains using rich defined media. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 686-695.	1.4	29
166	Hydrogen Generation Through Indirect Biophotolysis in Batch Cultures of the Nonheterocystous Nitrogen-Fixing Cyanobacterium <i>Plectonema boryanum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 208-220.	1.4	51
167	The Effect of pH on Continuous Biohydrogen Production from Swine Wastewater Supplemented with Glucose. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1286-1296.	1.4	15

#	ARTICLE	IF	CITATIONS
168	Next-Generation Biofuels: Survey of Emerging Technologies and Sustainability Issues. <i>ChemSusChem</i> , 2010, 3, 1106-1133.	3.6	270
169	Synthesis and Characterization of [FeFe]-Hydrogenase Models with Bridging Moieties Containing (S) ₂ . <i>Trends in Biochemical Sciences</i> , 2010, 35, 107-114.	1.0	29
170	Why microalgal biofuels won't save the internal combustion machine. <i>Biofuels, Bioproducts and Biorefining</i> , 2010, 4, 41-52.	1.9	88
171	Effect of heat pre-treatment temperature on isolation of hydrogen producing functional consortium from soil. <i>Renewable Energy</i> , 2010, 35, 2649-2655.	4.3	20
172	Biohydrogen production by <i>Rhodobacter capsulatus</i> on acetate at fluctuating temperatures. <i>Resources, Conservation and Recycling</i> , 2010, 54, 310-314.	5.3	73
173	Comparison of two reactor concepts for anoxygenic H ₂ production by <i>Rhodobacter capsulatus</i> . <i>Journal of Cleaner Production</i> , 2010, 18, S36-S42.	4.6	38
174	Photosynthetic hydrogen production. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010, 11, 101-113.	5.6	108
175	Increased performance of continuous stirred tank reactor with calcium supplementation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2622-2626.	3.8	43
176	Biological hydrogen production in continuous stirred tank reactor systems with suspended and attached microbial growth. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2807-2813.	3.8	49
177	Biohydrogen production from apple pomace by anaerobic fermentation with river sludge. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3058-3064.	3.8	47
178	Maximizing the solar to H ₂ energy conversion efficiency of outdoor photobioreactors using mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 500-510.	3.8	35
179	Continuous fermentative hydrogen production from coffee drink manufacturing wastewater by applying UASB reactor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 13370-13378.	3.8	102
180	Biohydrogen production from purified terephthalic acid (PTA) processing wastewater by anaerobic fermentation using mixed microbial communities. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8350-8356.	3.8	42
181	Enhanced bio-hydrogen production by anaerobic fermentation of apple pomace with enzyme hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8303-8309.	3.8	43
182	Hydrogen metabolism in the extreme thermophile <i>Thermotoga neapolitana</i> . <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2290-2295.	3.8	69
183	Influence of pH on fermentative hydrogen production from sweet sorghum extract. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1921-1928.	3.8	79
184	Dark hydrogen production in nitrogen atmosphere – An approach for sustainability by marine cyanobacterium <i>Leptolyngbya valderiana</i> BDU 20041. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10725-10730.	3.8	17
185	Developing a statistical model to predict hydrogen production by a mixed anaerobic mesophilic culture. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5332-5342.	3.8	33

#	ARTICLE	IF	CITATIONS
186	Performance of a groove-type photobioreactor for hydrogen production by immobilized photosynthetic bacteria. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5284-5292.	3.8	69
187	Effect of pH on continuous biohydrogen production from liquid swine manure with glucose supplement using an anaerobic sequencing batch reactor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6592-6599.	3.8	54
188	An economic survey of hydrogen production from conventional and alternative energy sources. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8371-8384.	3.8	392
189	Towards a super H ₂ producer: Improvements in photofermentative biohydrogen production by genetic manipulations. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6646-6656.	3.8	76
190	Statistical optimization of fermentative hydrogen production from xylose by newly isolated <i>Enterobacter</i> sp. CN1. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6657-6664.	3.8	60
191	Sequential dark-photo fermentation and autotrophic microalgal growth for high-yield and CO ₂ -free biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10944-10953.	3.8	78
192	Renewable carbohydrates are a potential high-density hydrogen carrier. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10334-10342.	3.8	63
193	Bioproduction of hydrogen from food waste by pilot-scale combined hydrogen/methane fermentation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11746-11755.	3.8	130
194	Effect of key factors on hydrogen production from cellulose in a co-culture of <i>Clostridium thermocellum</i> and <i>Clostridium thermopalmarium</i> . <i>Bioresource Technology</i> , 2010, 101, 4029-4033.	4.8	115
195	Techno-economic analysis of a two-step biological process producing hydrogen and methane. <i>Bioresource Technology</i> , 2010, 101, 7780-7788.	4.8	69
196	Hydrogen production from glucose-containing wastewater using an anaerobic sequencing batch reactor: Effects of COD loading rate, nitrogen content, and organic acid composition. <i>Chemical Engineering Journal</i> , 2010, 160, 322-332.	6.6	37
197	Hydrogen production from formic acid in pH-stat fed-batch operation for direct supply to fuel cell. <i>Bioresource Technology</i> , 2010, 101, S53-S58.	4.8	41
198	Continuous H ₂ and CH ₄ production from high-solid food waste in the two-stage thermophilic fermentation process with the recirculation of digester sludge. <i>Bioresource Technology</i> , 2010, 101, S42-S47.	4.8	221
199	Hydrogen production of the hyperthermophilic eubacterium, <i>Thermotoga neapolitana</i> under N ₂ sparging condition. <i>Bioresource Technology</i> , 2010, 101, S38-S41.	4.8	83
200	Response surface methodology for process parameter optimization of hydrogen yield by the metabolically engineered strain <i>Escherichia coli</i> DJT135. <i>Bioresource Technology</i> , 2010, 101, 1820-1825.	4.8	59
201	Biohydrogen production from Tequila vinasses in an anaerobic sequencing batch reactor: Effect of initial substrate concentration, temperature and hydraulic retention time. <i>Bioresource Technology</i> , 2010, 101, 9071-9077.	4.8	156
202	Effects of sludge pretreatments and organic acids on hydrogen production by anaerobic fermentation. <i>Bioresource Technology</i> , 2010, 101, 8731-8735.	4.8	42
203	Enhanced H ₂ gas production from bagasse using adhE inactivated <i>Klebsiella oxytoca</i> HP1 by sequential dark-photo fermentations. <i>Bioresource Technology</i> , 2010, 101, 9605-9611.	4.8	40

#	ARTICLE	IF	CITATIONS
204	Reprint of: Solar hydrogen production and its development in China. Energy, 2010, 35, 4421-4438.	4.5	21
205	The Substrate Concentration Effects on Biohydrogen Production in Continuous Stirred Tank Reactor. Advanced Materials Research, 2010, 113-116, 2062-2066.	0.3	0
206	Optimal Selection of Several Substrates in Fermentative Biohydrogen Production Technology. Advanced Materials Research, 0, 105-106, 713-719.	0.3	0
207	High yield hydrogen production in a single-chamber membrane-less microbial electrolysis cell. Water Science and Technology, 2010, 61, 721-727.	1.2	18
208	Rapid Start-Up of Ethanol-Type Fermentation in Biological Hydrogen Production Reactor from Molasses Wastewater. Advanced Materials Research, 0, 113-116, 623-631.	0.3	0
209	Biohydrogen production and wastewater treatment by anaerobic fermentation with UASB. , 2010, , .		2
210	Diverting Electron Fluxes to Hydrogen in Mixed Anaerobic Communities Fed with Glucose and Unsaturated C18 Long Chain Fatty Acids. Journal of Environmental Engineering, ASCE, 2010, 136, 568-575.	0.7	23
211	Start-up and continuous operation of CSTR by biohybacterium R3. , 2010, , .		0
212	Exploitation of the extremely thermophilic <i>Caldicellulosiruptor saccharolyticus</i> in hydrogen and biogas production from biomasses. Environmental Technology (United Kingdom), 2010, 31, 1017-1024.	1.2	25
213	Enzymatic Treatment of Lignocellulosic Wastes for Anaerobic Digestion and Bioenergy Production. , 2010, , 279-308.		5
214	Emerging Biological Technologies: Biofuels and Biochemicals. , 0, , 639-650.		1
215	Sustainable Biotechnology. , 2010, , .		9
218	Energy Resources and Systems. , 2011, , .		46
219	Hydrogen Energy. , 2011, , 495-629.		1
220	Thermophilic Biohydrogen Production. , 2011, , 525-536.		2
221	Biohydrogen Production with High-Rate Bioreactors. , 2011, , 537-567.		2
222	Biohydrogen Production from Agricultural Agrofood-Based Resources. , 2011, , 629-641.		1
223	Composite Nanomaterials for Hydrogen Technologies. , 0, , .		2

#	ARTICLE	IF	CITATIONS
224	Bioproduction of Hydrogen with the Assistance of Electrochemical Technology. , 2011, , .		0
225	Radiation transfer in photobiological carbon dioxide fixation and fuel production by microalgae. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2639-2660.	1.1	149
226	Recent advances in production of hydrogen from biomass. Energy Conversion and Management, 2011, 52, 1778-1789.	4.4	282
227	Single stage photofermentative hydrogen production from glucose: An attractive alternative to two stage photofermentation or co-culture approaches. International Journal of Hydrogen Energy, 2011, 36, 13889-13895.	3.8	66
228	Biohydrogen production behavior of moderately thermophile Thermoanaerobacterium thermosaccharolyticum W16 under different gas-phase conditions. International Journal of Hydrogen Energy, 2011, 36, 14041-14048.	3.8	25
229	Bubble behavior and photo-hydrogen production performance of photosynthetic bacteria in microchannel photobioreactor. International Journal of Hydrogen Energy, 2011, 36, 14111-14119.	3.8	16
230	Orthogonal optimization of Carboxydotherrmus hydrogenoformans culture medium for hydrogen production from carbon monoxide by biological water-gas shift reaction. International Journal of Hydrogen Energy, 2011, 36, 10655-10665.	3.8	13
231	Natural inducement of hydrogen from food waste by temperature control. International Journal of Hydrogen Energy, 2011, 36, 10666-10673.	3.8	40
232	Fermentative hydrogen production by Clostridium butyricum and Escherichia coli in pure and cocultures. International Journal of Hydrogen Energy, 2011, 36, 10701-10708.	3.8	76
233	Enhancement of phototrophic hydrogen production by Rhodobacter sphaeroides ZX-5 using fed-batch operation based on ORP level. International Journal of Hydrogen Energy, 2011, 36, 12794-12802.	3.8	27
234	Hydrogen production from alcohol distillery wastewater containing high potassium and sulfate using an anaerobic sequencing batch reactor. International Journal of Hydrogen Energy, 2011, 36, 12810-12821.	3.8	54
235	Hydrogen production from acid hydrolyzed molasses by the hydrogen overproducing Escherichia coli strain HD701 and subsequent use of the waste bacterial biomass for biosorption of Cd(II) and Zn(II). International Journal of Hydrogen Energy, 2011, 36, 14381-14390.	3.8	31
236	Kinetic and stoichiometric modelling of acidogenic fermentation of glucose and fructose. Biomass and Bioenergy, 2011, 35, 3877-3883.	2.9	43
237	Biohydrogen production by Anabaena sp. PCC 7120 wild-type and mutants under different conditions: Light, nickel, propane, carbon dioxide and nitrogen. Biomass and Bioenergy, 2011, 35, 4426-4434.	2.9	41
238	Biohydrogen production by immobilized Chlorella sp. using cycles of oxygenic photosynthesis and anaerobiosis. Bioresource Technology, 2011, 102, 8676-8681.	4.8	89
239	Metabolic engineering in dark fermentative hydrogen production; theory and practice. Bioresource Technology, 2011, 102, 8414-8422.	4.8	51
240	Photobiological hydrogen production: Recent advances and state of the art. Bioresource Technology, 2011, 102, 8403-8413.	4.8	261
241	Biochemical and genetic engineering strategies to enhance hydrogen production in photosynthetic algae and cyanobacteria. Bioresource Technology, 2011, 102, 8589-8604.	4.8	151

#	ARTICLE	IF	CITATIONS
242	Modeling and optimization of fermentative hydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8569-8581.	4.8	129
243	Photofermentative hydrogen production from wastes. <i>Bioresource Technology</i> , 2011, 102, 8557-8568.	4.8	158
244	Current status of the metabolic engineering of microorganisms for biohydrogen production. <i>Bioresource Technology</i> , 2011, 102, 8357-8367.	4.8	143
245	Enhancement of photo-hydrogen production in a biofilm photobioreactor using optical fiber with additional rough surface. <i>Bioresource Technology</i> , 2011, 102, 8507-8513.	4.8	58
246	Techno-economic comparison of a biological hydrogen process and a 2nd generation ethanol process using barley straw as feedstock. <i>Bioresource Technology</i> , 2011, 102, 9524-9531.	4.8	58
247	Fermentation of <i>Chlorella</i> sp. for anaerobic bio-hydrogen production: Influences of inoculumâ€œsubstrate ratio, volatile fatty acids and NADH. <i>Bioresource Technology</i> , 2011, 102, 10480-10485.	4.8	58
248	Effects of pH and ORP on microbial ecology and kinetics for hydrogen production in continuously dark fermentation. <i>Bioresource Technology</i> , 2011, 102, 10875-10880.	4.8	31
249	Biohydrogen production and bioprocess enhancement: A review. <i>Critical Reviews in Biotechnology</i> , 2011, 31, 250-263.	5.1	56
250	Hydrogen Production from Carbohydrates: A Mini-Review. <i>ACS Symposium Series</i> , 2011, , 203-216.	0.5	12
251	Bioenergy from anaerobic degradation of lipids in palm oil mill effluent. <i>Reviews in Environmental Science and Biotechnology</i> , 2011, 10, 353-376.	3.9	58
252	Acclimation of green algae to sulfur deficiency: underlying mechanisms and application for hydrogen production. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 3-15.	1.7	90
253	A Framework to Report the Production of Renewable Diesel from Algae. <i>Bioenergy Research</i> , 2011, 4, 36-60.	2.2	28
254	A kinetic model for quantitative evaluation of the effect of hydrogen and osmolarity on hydrogen production by <i>Caldicellulosiruptor saccharolyticus</i> . <i>Biotechnology for Biofuels</i> , 2011, 4, 31.	6.2	40
255	Harnessing the self-harvesting capability of benthic cyanobacteria for use in benthic photobioreactors. <i>AMB Express</i> , 2011, 1, 19.	1.4	12
256	Solar Hydrogen Evolution with Hydrogenases: From Natural to Hybrid Systems. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1005-1016.	1.0	80
257	Diiron Dichalcogenolato (Se and Te) Complexes: Models for the Active Site of [FeFe] Hydrogenase. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 986-993.	1.0	50
258	Cultivation, photobioreactor design and harvesting of microalgae for biodiesel production: A critical review. <i>Bioresource Technology</i> , 2011, 102, 71-81.	4.8	1,494
259	Integrated hydrogen production process from cellulose by combining dark fermentation, microbial fuel cells, and a microbial electrolysis cell. <i>Bioresource Technology</i> , 2011, 102, 4137-4143.	4.8	263

#	ARTICLE	IF	CITATIONS
260	Effect of light intensity and the light: dark cycles on the long term hydrogen production of <i>Chlamydomonas reinhardtii</i> by batch cultures. <i>Biomass and Bioenergy</i> , 2011, 35, 1066-1074.	2.9	34
261	Extreme-thermophilic biohydrogen production by an anaerobic heat treated digested sewage sludge culture. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8727-8734.	3.8	20
262	Parameters affecting the growth and hydrogen production of the green alga <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7872-7876.	3.8	52
263	Effect of substrate concentration on fermentative hydrogen production from sweet sorghum extract. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4843-4851.	3.8	54
264	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> , 2011, 36, 7074-7080.	3.8	12
265	An evaluative report and challenges for fermentative biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7460-7478.	3.8	258
266	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> , 2011, 36, 7543-7549.	3.8	40
267	Application of proton exchange membrane fuel cells for the monitoring and direct usage of biohydrogen produced by <i>Chlamydomonas reinhardtii</i> . <i>Journal of Power Sources</i> , 2011, 196, 46-53.	4.0	17
268	Improvement of biohydrogen production by <i>Enterobacter cloacae</i> IIT-BT 08 under regulated pH. <i>Journal of Biotechnology</i> , 2011, 152, 9-15.	1.9	87
269	Bio-hydrogen production from cornstalk wastes by orthogonal design method. <i>Renewable Energy</i> , 2011, 36, 709-713.	4.3	55
270	Effects of Mo(VI) on phototrophic hydrogen production by <i>Rhodobacter sphaeroides</i> . <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1279-1285.	1.2	6
271	Biological and fermentative production of hydrogen. , 2011, , 305-346.		12
272	The Efficiency Analysis of <i>Eupatorium adenophorum</i> Spreng for Methane Production. , 2011, , .		0
273	Study on material utilization efficiency and energy conversion efficiency of biogas fermentation by <i>Eupatorium adenophorum</i> Spreng. , 2011, , .		0
274	Renewable Hydrogen Carrier " Carbohydrate: Constructing the Carbon-Neutral Carbohydrate Economy. <i>Energies</i> , 2011, 4, 254-275.	1.6	28
275	Water and energy link in the cities of the future " achieving net zero carbon and pollution emissions footprint. <i>Water Science and Technology</i> , 2011, 63, 184-190.	1.2	32
276	Metabolic Pathways of Hydrogen Production in Fermentative Acidogenic Microflora. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 668-673.	0.9	14
277	The Efficiency of Material Utilization and Energy Conversion of Biogas Fermentation by <i>Annua. Advanced Materials Research</i> , 0, 621, 273-277.	0.3	0

#	ARTICLE	IF	CITATIONS
279	Microaerobic dark fermentative hydrogen production by the photosynthetic bacterium, <i>Rhodobacter capsulatus</i> P91. International Journal of Low-Carbon Technologies, 2012, 7, 97-103.	1.2	24
280	Water-Energy Interactions in Water Reuse. Water Intelligence Online, 0, 11, .	0.3	40
281	Comparison of S and Se dichalcogenolato [FeFe]-hydrogenase models with central S and Se atoms in the bridgehead chain. Tetrahedron, 2012, 68, 10592-10599.	1.0	48
282	A comprehensive and quantitative review of dark fermentative biohydrogen production. Microbial Cell Factories, 2012, 11, 115.	1.9	169
283	Expression of <i>Shewanella oneidensis</i> MR-1 [FeFe]-Hydrogenase Genes in <i>Anabaena</i> sp. Strain PCC 7120. Applied and Environmental Microbiology, 2012, 78, 8579-8586.	1.4	30
284	Production of hydrogenases as biocatalysts. International Journal of Hydrogen Energy, 2012, 37, 15833-15840.	3.8	16
285	Microalgal carbohydrates: an overview of the factors influencing carbohydrates production, and of main bioconversion technologies for production of biofuels. Applied Microbiology and Biotechnology, 2012, 96, 631-645.	1.7	399
286	Comparison of various pretreatment methods for biohydrogen production from cornstalk. Bioprocess and Biosystems Engineering, 2012, 35, 1239-1245.	1.7	16
287	Continuous hydrogen production by immobilized cultures of <i>Thermotoga neapolitana</i> on an acrylic hydrogel with pH-buffering properties. RSC Advances, 2012, 2, 3611.	1.7	25
288	Process investigations of extreme thermophilic fermentations for hydrogen production: Effect of bubble induction and reduced pressure. Bioresource Technology, 2012, 118, 170-176.	4.8	16
289	Production of hydrogen from renewable resources and its effectiveness. International Journal of Hydrogen Energy, 2012, 37, 11563-11578.	3.8	260
290	Biohydrogen production: Current perspectives and the way forward. International Journal of Hydrogen Energy, 2012, 37, 15616-15631.	3.8	270
291	Perspectives of biofuels production from renewable resources with bioelectrochemical systems. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S263.	0.8	19
292	Hydrogen Production by Cyanobacteria. , 2012, , 15-28.		24
293	Fermentative Hydrogen Production. , 2012, , 77-92.		10
294	A feasibility study on unsaturated flow bioreactor using optical fiber illumination for photo-hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 15666-15671.	3.8	11
295	Effect of temperature on continuous hydrogen production of cellulose. International Journal of Hydrogen Energy, 2012, 37, 15465-15472.	3.8	45
296	Techno-economic evaluation of biohydrogen production from wastewater and agricultural waste. International Journal of Hydrogen Energy, 2012, 37, 15704-15710.	3.8	91

#	ARTICLE	IF	CITATIONS
297	Pretreating mixed anaerobic communities from different sources: Correlating the hydrogen yield with hydrogenase activity and microbial diversity. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12175-12186.	3.8	47
298	Hydrogen production by the thermophilic eubacterium <i>Thermotoga neapolitana</i> from storage polysaccharides of the CO ₂ -fixing diatom <i>Thalassiosira weissflogii</i> . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12250-12257.	3.8	23
299	An in silico re-design of the metabolism in <i>Thermotoga maritima</i> for increased biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12205-12218.	3.8	31
300	Effect of fermentation conditions on biohydrogen production from lipid-rich food material. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15062-15069.	3.8	11
301	Improvement of hydrogen production with thermophilic mixed culture from rice spent wash of distillery industry. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15867-15874.	3.8	49
302	Effects of Hydrogen Partial Pressure on Fermentative Biohydrogen Production by a Chemotropic <i>Clostridium</i> Bacterium in a New Horizontal Rotating Cylinder Reactor. <i>Energy Procedia</i> , 2012, 29, 34-41.	1.8	26
303	Predicting cost growth and performance of first-generation algal production systems. <i>Energy Policy</i> , 2012, 51, 382-391.	4.2	10
304	An overview of hydrogen gas production from solar energy. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6782-6792.	8.2	179
305	Microbial Technologies in Advanced Biofuels Production. , 2012, , .		20
306	Recent Advances in Entomological Research. , 2011, , .		10
307	The Science of Algal Fuels. Cellular Origin and Life in Extreme Habitats, 2012, , .	0.3	19
308	Carbon dioxide biofixation and biomass production from flue gas of power plant using microalgae. , 2012, , .		6
309	Combined Systems for Maximum Substrate Conversion. , 2012, , 107-126.		7
310	Linking genome content to biofuel production yields: a meta-analysis of major catabolic pathways among select H ₂ and ethanol-producing bacteria. <i>BMC Microbiology</i> , 2012, 12, 295.	1.3	58
311	NIBBS-Search for Fast and Accurate Prediction of Phenotype-Biased Metabolic Systems. <i>PLoS Computational Biology</i> , 2012, 8, e1002490.	1.5	5
312	Catalytic Hydrogen Production from Bioethanol. , 2012, , .		3
313	Biohydrogen production from glucose, molasses and cheese whey by suspended and attached cells of four hyperthermophilic <i>Thermotoga</i> strains. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1291-1301.	1.6	43
314	Evolution of an [FeFe] hydrogenase with decreased oxygen sensitivity. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2965-2976.	3.8	52

#	ARTICLE	IF	CITATIONS
315	Biological fermentative hydrogen and ethanol production using continuous stirred tank reactor. International Journal of Hydrogen Energy, 2012, 37, 843-847.	3.8	26
316	Ammonia and related chemicals as potential indirect hydrogen storage materials. International Journal of Hydrogen Energy, 2012, 37, 1482-1494.	3.8	852
317	Improvement of hydrogen production under decreased partial pressure by newly isolated alkaline tolerant anaerobe, Clostridium butyricum TM-9A: Optimization of process parameters. International Journal of Hydrogen Energy, 2012, 37, 3160-3168.	3.8	117
318	Hydrogen production from butyrate by a marine mixed phototrophic bacterial consort. International Journal of Hydrogen Energy, 2012, 37, 4057-4067.	3.8	32
319	Use of near-infrared radiation for oxygenic photosynthesis via photon up-conversion. International Journal of Hydrogen Energy, 2012, 37, 8859-8863.	3.8	24
320	A novel nutrient control method to deprive green algae of sulphur and initiate spontaneous hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 8988-9001.	3.8	28
321	Effects of initial lactic acid concentration, HRTs, and OLRs on bio-hydrogen production from lactate-type fermentation. Bioresource Technology, 2012, 103, 136-141.	4.8	78
322	Strategies for improving biological hydrogen production. Bioresource Technology, 2012, 110, 1-9.	4.8	277
323	Dark fermentative hydrogen production by mixed anaerobic cultures: Effect of inoculum treatment methods on hydrogen yield. Renewable Energy, 2012, 48, 117-121.	4.3	40
324	Fermentative hydrogen production – An alternative clean energy source. Renewable and Sustainable Energy Reviews, 2012, 16, 2337-2346.	8.2	160
325	A review on utilisation of biomass from rice industry as a source of renewable energy. Renewable and Sustainable Energy Reviews, 2012, 16, 3084-3094.	8.2	480
326	Biohydrogen production using waste activated sludge as a substrate from fructose-processing wastewater treatment. Chemical Engineering Research and Design, 2012, 90, 221-230.	2.7	22
327	Improvements in fermentative biological hydrogen production through metabolic engineering. Journal of Environmental Management, 2012, 95, S360-S364.	3.8	63
328	Impact of microalgae characteristics on their conversion to biofuel. Part I: Focus on cultivation and biofuel production. Biofuels, Bioproducts and Biorefining, 2012, 6, 105-113.	1.9	29
329	A new high-energy density hydrogen carrier-carbohydrate-might be better than methanol. International Journal of Energy Research, 2013, 37, 769-779.	2.2	16
330	Progress in energy from microalgae: A review. Renewable and Sustainable Energy Reviews, 2013, 27, 128-148.	8.2	228
331	Photofermentative Biohydrogen Production. , 2013, , 145-159.		5
332	Microalgae for a macroenergy world. Renewable and Sustainable Energy Reviews, 2013, 26, 241-264.	8.2	156

#	ARTICLE	IF	CITATIONS
333	Biohydrogen Production from Wastewater. , 2013, , 223-257.		21
334	Biohydrogen from Renewable Resources. , 2013, , 185-221.		16
335	Biohydrogen Production. , 2013, , 1-24.		15
336	Metabolic Engineering of Microorganisms for Biohydrogen Production. , 2013, , 45-65.		13
337	Biohydrogen Production from Algae. , 2013, , 161-184.		5
338	Photobiological hydrogen production: Bioenergetics and challenges for its practical application. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2013, 17, 1-25.	5.6	68
339	Catalytic Synthesis of CO Free Hydrogen. , 2013, , 223-252.		1
340	Impact of regulated pH on proto scale hydrogen production from xylose by an alkaline tolerant novel bacterial strain, Enterobacter cloacae DT-1. International Journal of Hydrogen Energy, 2013, 38, 2728-2737.	3.8	26
341	Bio-electrolytic conversion of acidogenic effluents to biohydrogen: An integration strategy for higher substrate conversion and product recovery. Bioresource Technology, 2013, 133, 322-331.	4.8	85
342	Homoacetogenesis during hydrogen production by mixed cultures dark fermentation: Unresolved challenge. International Journal of Hydrogen Energy, 2013, 38, 13172-13191.	3.8	399
343	Process and reactor design for biophotolytic hydrogen production. Physical Chemistry Chemical Physics, 2013, 15, 10783.	1.3	32
344	Production of biohydrogen from sugars and lignocellulosic biomass using Thermoanaerobacter GH15. International Journal of Hydrogen Energy, 2013, 38, 14467-14475.	3.8	26
345	Effects of inoculum and indigenous microflora on hydrogen production from the organic fraction of municipal solid waste. International Journal of Hydrogen Energy, 2013, 38, 11774-11779.	3.8	53
346	Pentoses, hexoses and glycerin as substrates for biohydrogen production: An approach for Brazilian biofuel integration. International Journal of Hydrogen Energy, 2013, 38, 2986-2997.	3.8	49
348	Metabolic flux network analysis of fermentative hydrogen production: Using Clostridium tyrobutyricum as an example. Bioresource Technology, 2013, 141, 233-239.	4.8	33
349	Production of hydrogen and methane by one and two stage fermentation of food waste. International Journal of Hydrogen Energy, 2013, 38, 15764-15769.	3.8	152
350	Reduced energy consumption during low strength domestic wastewater treatment in a semi-pilot tubular microbial electrolysis cell. Journal of Environmental Management, 2013, 122, 1-7.	3.8	55
351	Effect of pre-treatment and biofouling of proton exchange membrane on microbial fuel cell performance. International Journal of Hydrogen Energy, 2013, 38, 5480-5484.	3.8	148

#	ARTICLE	IF	CITATIONS
352	Hydrogen production by anaerobic digestion of pig manure: Effect of operating conditions. <i>Renewable Energy</i> , 2013, 53, 187-192.	4.3	44
353	Optimization of biological hydrogen production for anaerobic co-digestion of food waste and wastewater biosolids. <i>Bioresource Technology</i> , 2013, 130, 710-718.	4.8	100
355	Growth profile of <i>Carboxydotherrmus hydrogenoformans</i> on pyruvate. <i>AMB Express</i> , 2013, 3, 60.	1.4	2
356	Thermophilic biohydrogen production: how far are we?. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7999-8009.	1.7	106
358	Experimental investigation of biohydrogen production from indigenous algae and <i>Chlorella Pyrenoidosa</i> . , 2013, , .		2
359	Effects of pretreatments of anaerobic sludge and culture conditions on hydrogen productivity in dark anaerobic fermentation. <i>Renewable Energy</i> , 2013, 49, 227-231.	4.3	48
360	Buffering and nutrient effects of white mud from ammonia“soda process on thermophilic hydrogen fermentation from food waste. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13564-13571.	3.8	45
361	Modeling and simulation of the microalgae derived hydrogen process in compact photobioreactors. , 2013, , .		1
362	Photofermentative production of hydrogen from organic acids by the purple sulfur bacterium <i>Thiocapsa roseopersicina</i> . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5535-5544.	3.8	8
363	Lime mud from paper-making process addition to food waste synergistically enhances hydrogen fermentation performance. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2738-2745.	3.8	66
364	Comparison of metabolic pathway for hydrogen production in wild-type and mutant <i>Clostridium tyrobutyricum</i> strain based on metabolic flux analysis. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2176-2184.	3.8	16
365	Improving conversion efficiency of solar energy to electricity in cyanobacterial PEMFC by high levels of photo-H ₂ production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13556-13563.	3.8	5
366	Fermentative hydrogen production from beet sugar factory wastewater treatment in a continuous stirred tank reactor using anaerobic mixed consortia. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 143-150.	3.3	17
367	Recent progress in hydrogenase and its biotechnological application for viable hydrogen technology. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1-10.	1.2	25
368	Biohydrogen Production from Microalgae. , 2013, , 317-333.		13
369	Biohydrogen production through photo fermentation or dark fermentation using waste as a substrate: Overview, economics, and future prospects of hydrogen usage. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 334-352.	1.9	182
370	Microalgae autoflocculation: an alternative to high-energy consuming harvesting methods. <i>Journal of Applied Phycology</i> , 2013, 25, 991-999.	1.5	128
371	Metabolic engineering for enhanced hydrogen production: a review. <i>Canadian Journal of Microbiology</i> , 2013, 59, 59-78.	0.8	33

#	ARTICLE	IF	CITATIONS
372	Prolonged hydrogen production by <i>Nostoc</i> in photobioreactor and multi-stage use of the biological waste for column biosorption of some dyes and metals. <i>Biomass and Bioenergy</i> , 2013, 54, 27-35.	2.9	15
373	Observer-Based Backstepping Controller for Microalgae Cultivation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7482-7491.	1.8	13
374	Bioreactor and Bioprocess Design for Biohydrogen Production. , 2013, , 317-337.		14
375	Kinetics study of fermentative hydrogen production from liquid swine manure supplemented with glucose under controlled pH. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2013, 48, 477-485.	0.7	9
376	Trends in biohydrogen production: major challenges and state-of-the-art developments. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1653-1670.	1.2	92
377	Development of Hazard Assessment for Hydrogen Refueling Station in Malaysia. <i>Applied Mechanics and Materials</i> , 0, 315, 121-127.	0.2	2
378	Solar hydrogen production and CO2 recycling. , 2013, , 275-310.		0
379	Production of Biofuels from Cellulose of Woody Biomass. , 0, , .		6
381	Zeolites: Promised Materials for the Sustainable Production of Hydrogen. <i>ISRN Chemical Engineering</i> , 2013, 2013, 1-19.	1.2	40
383	Growth of <i>Scenedesmus dimorphus</i> in different algal media and pH profile due to secreted metabolites. <i>African Journal of Biotechnology</i> , 2014, 13, 1714-1720.	0.3	16
384	Enzymes and Microorganisms for Biohydrogen Production. <i>Current Biochemical Engineering</i> , 2014, 1, 106-116.	1.3	2
385	Enhancement of Fermentative Hydrogen Production from Beverage Wastewater via Bioaugmentation and Statistical Optimization. <i>Current Biochemical Engineering</i> , 2014, 1, 92-98.	1.3	28
387	Optimising the production of energy from coblended food waste and biosolids using batch reactor studies. <i>Water and Environment Journal</i> , 2014, 28, 483-489.	1.0	2
389	Molecular dynamics study on the effects of varying temperature and pressure on phosphatidylcholine lipids for microalgae drying. , 2014, , .		3
390	Development of a Novel Hybrid Immobilization Material (HYâ€M) for Fermentative Biohydrogen Production from Beverage Wastewater. <i>Journal of the Chinese Chemical Society</i> , 2014, 61, 827-830.	0.8	36
392	Reorienting Waste Remediation Towards Harnessing Bioenergy. , 2014, , 235-281.		8
393	Recycling of Carbon Dioxide and Acetate as Lactic Acid by the Hydrogenâ€Producing Bacterium <i>Thermotoga neapolitana</i> . <i>ChemSusChem</i> , 2014, 7, 2678-2683.	3.6	28
394	The Biohydrogen Potential of Distillery Wastewater by Dark Fermentation in an Anaerobic Sequencing Batch Reactor. <i>International Journal of Green Energy</i> , 2014, 11, 28-39.	2.1	13

#	ARTICLE	IF	CITATIONS
395	Contribution of H ₂ during the Two-Phase Anaerobic Digestion. <i>Advanced Materials Research</i> , 0, 908, 235-238.	0.3	0
396	Sequencing batch reactors (SBRs) for BioH ₂ production: Reactor operation criteria. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4863-4869.	3.8	12
397	Role of transcription and enzyme activities in redistribution of carbon and electron flux in response to N ₂ and H ₂ sparging of open-batch cultures of <i>Clostridium thermocellum</i> ATCC 27405. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2829-2840.	1.7	16
398	Fermentative hydrogen production under moderate halophilic conditions. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7508-7517.	3.8	31
399	Microbial BioEnergy: Hydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , 2014, , .	1.0	10
400	Characterization of cell growth and photobiological H ₂ production of <i>Chlamydomonas reinhardtii</i> in ASSF industry wastewater. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13462-13467.	3.8	16
401	Characteristics of biohydrogen fermentation from various substrates. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3152-3159.	3.8	21
402	A review of sustainable hydrogen production using seed sludge via dark fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 34, 471-482.	8.2	249
403	Microalgae for third generation biofuel production, mitigation of greenhouse gas emissions and wastewater treatment: Present and future perspectives – A mini review. <i>Energy</i> , 2014, 78, 104-113.	4.5	301
404	Nano-Litre Proton/Hydrogen Titration in a Dual-Plate Platinum-Platinum Generator-Collector Electrode Micro-Trench. <i>Electrochimica Acta</i> , 2014, 125, 94-100.	2.6	19
405	Comparison of tubular and panel type photobioreactors for biohydrogen production utilizing <i>Chlamydomonas reinhardtii</i> considering mixing time and light intensity. <i>Bioresource Technology</i> , 2014, 151, 265-270.	4.8	71
406	Batch fermentative hydrogen production by enriched mixed culture: Combination strategy and their microbial composition. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 222-228.	1.1	73
407	Development of biohydrogen production by photobiological, fermentation and electrochemical processes: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 158-173.	8.2	344
408	Potassium deficiency, a smart cellular switch for sustained high yield hydrogen production by the green alga <i>Scenedesmus obliquus</i> . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19452-19464.	3.8	31
409	Enhanced dark fermentative hydrogen production under the effect of zero-valent iron shavings. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19331-19336.	3.8	23
410	Catalyzing the Hydrogen Evolution Reaction (HER) with Molybdenum Sulfide Nanomaterials. <i>ACS Catalysis</i> , 2014, 4, 3957-3971.	5.5	1,355
411	Hydrogen production using inorganic membrane reactors. , 2014, , 283-316.		3
412	Enhancement of hydrogen production and power density in a bio-reformed formic acid fuel cell (BrFAFC) using genetically modified <i>Enterobacter asburiae</i> SNU-1. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11731-11737.	3.8	9

#	ARTICLE	IF	CITATIONS
413	Production of Hydrogen and Methane from Banana Peel by Two Phase Anaerobic Fermentation. Energy Procedia, 2014, 50, 702-710.	1.8	45
414	Bio-engineering algae as a source of hydrogen. , 2014, , 248-262.		4
415	Engineered Cyanobacteria. , 2014, , 389-406.		4
416	Fermentative H ₂ production from residual glycerol: a review. Biotechnology Letters, 2014, 36, 1381-1390.	1.1	21
417	Hydrogen production by Escherichia coli without nitrogen sparging and subsequent use of the waste culture for fast mass scale one-pot green synthesis of silver nanoparticles. International Journal of Hydrogen Energy, 2014, 39, 11902-11912.	3.8	15
418	Preparation and characterization of diiron diselenolato complexes containing a dioxane ring as models for [FeFe]-hydrogenases. Transition Metal Chemistry, 2014, 39, 647-651.	0.7	3
419	Thermophilic fermentations of lignocellulosic substrates and economics of biofuels: prospects in Pakistan. International Journal of Energy and Environmental Engineering, 2014, 5, 1.	1.3	9
420	Analysis of microbial community adaptation in mesophilic hydrogen fermentation from food waste by tagged 16S rRNA gene pyrosequencing. Journal of Environmental Management, 2014, 144, 143-151.	3.8	42
421	Biohydrogen for a New Generation of H ₂ /O ₂ Biofuel Cells: A Sustainable Energy Perspective. ChemElectroChem, 2014, 1, 1724-1750.	1.7	61
422	The microalgae derived hydrogen process in compact photobioreactors. International Journal of Hydrogen Energy, 2014, 39, 9588-9598.	3.8	25
423	High-rate fermentative hydrogen production from palm oil mill effluent in an up-flow anaerobic sludge blanket-fixed film reactor. Chemical Engineering Research and Design, 2014, 92, 1811-1817.	2.7	26
424	Highly efficient hydrogen production from formaldehyde over Ag/Al ₂ O ₃ catalyst at room temperature. International Journal of Hydrogen Energy, 2014, 39, 9114-9120.	3.8	24
425	Sustainable solar hydrogen production: from photoelectrochemical cells to PV-electrolyzers and back again. Energy and Environmental Science, 2014, 7, 2056-2070.	15.6	179
426	Technological Diversity and Economics: Coupling Effects on Hydrogen Production from Biomass. Energy & Fuels, 2014, 28, 4300-4320.	2.5	25
427	Microbial biofuels production. , 2014, , 155-168.		3
428	Highly Efficient Platinum Group Metal Free Based Membrane Electrode Assembly for Anion Exchange Membrane Water Electrolysis. Angewandte Chemie - International Edition, 2014, 53, 1378-1381.	7.2	243
430	Microalgal Production of Hydrogen and Biodiesel. , 2015, , 390-411.		0
432	Changes in glucose fermentation pathways by an enriched bacterial culture in response to regulated dissolved H ₂ concentrations. Biotechnology and Bioengineering, 2015, 112, 1177-1186.	1.7	7

#	ARTICLE	IF	CITATIONS
433	Hydrogen Production by the Thermophilic Bacterium <i>Thermotoga neapolitana</i> . International Journal of Molecular Sciences, 2015, 16, 12578-12600.	1.8	61
434	Transcriptional Profiling of Hydrogen Production Metabolism of <i>Rhodobacter capsulatus</i> under Temperature Stress by Microarray Analysis. International Journal of Molecular Sciences, 2015, 16, 13781-13797.	1.8	7
435	Lichen Symbiosis: Nature's High Yielding Machines for Induced Hydrogen Production. PLoS ONE, 2015, 10, e0121325.	1.1	12
436	Impact of pH Management Interval on Biohydrogen Production from Organic Fraction of Municipal Solid Wastes by Mesophilic Thermophilic Anaerobic Codigestion. BioMed Research International, 2015, 1-9.	0.9	11
437	Fundamentals of Hydrogen Production via Biotechnology (Bio-H ₂). , 2015, , 149-173.		4
438	Demonstrated large-scale production of marine microalgae for fuels and feed. Algal Research, 2015, 10, 249-265.	2.4	135
439	Enhancing the oil extraction efficiency of <i>Chlorella vulgaris</i> with cell-disruptive pretreatment using active extracellular substances from <i>Bacillus thuringiensis</i> ITRI-G1. Biochemical Engineering Journal, 2015, 101, 185-190.	1.8	18
440	How Close We Are to Achieving Commercially Viable Large-Scale Photobiological Hydrogen Production by Cyanobacteria: A Review of the Biological Aspects. Life, 2015, 5, 997-1018.	1.1	30
441	Agricultural Biomass Based Potential Materials. , 2015, , .		32
442	Potential Agrowastes for Biofuels. , 2015, , 181-190.		0
443	Bioenergy: Biofuels Process Technology. , 2015, , 165-207.		1
444	Algae-Based Biohydrogen: Current Status of Bioprocess Routes, Economical Assessment, and Major Bottlenecks. , 2015, , 77-86.		0
445	Characteristics for production of hydrogen and bioflocculant by <i>Bacillus</i> sp. XF-56 from marine intertidal sludge. International Journal of Hydrogen Energy, 2015, 40, 1414-1419.	3.8	22
446	Membrane processes and renewable energies. Renewable and Sustainable Energy Reviews, 2015, 43, 1343-1398.	8.2	77
447	<i>Synechocystis</i> sp. PCC6803 metabolic models for the enhanced production of hydrogen. Critical Reviews in Biotechnology, 2015, 35, 184-198.	5.1	7
448	Ecological Mechanisms of Dark H ₂ Production by a Mixed Microbial Community. Green Energy and Technology, 2015, , 1-24.	0.4	3
449	BioH ₂ & BioCH ₄ Through Anaerobic Digestion. Green Energy and Technology, 2015, , .	0.4	36
450	A review on dark fermentative biohydrogen production from organic biomass: Process parameters and use of by-products. Applied Energy, 2015, 144, 73-95.	5.1	747

#	ARTICLE	IF	CITATIONS
451	Algal Biomass. , 2015, , 195-226.		2
452	Effects of Dilute Acid Pretreatment on Physicochemical Characteristics and Consolidated Bioprocessing of Rice Straw. Waste and Biomass Valorization, 2015, 6, 217-223.	1.8	4
453	Enhanced photo-H ₂ production by unsaturated flow condition in continuous culture. Biotechnology Letters, 2015, 37, 359-366.	1.1	7
454	Anaerobic biofilm reactors for dark fermentative hydrogen production from wastewater: A review. Bioresource Technology, 2015, 185, 386-398.	4.8	105
455	Identification of Candida tropicalis BH-6 and Synergistic Effect with Pantoea agglomerans BH-18 on Hydrogen Production in Marine Culture. Applied Biochemistry and Biotechnology, 2015, 175, 2677-2688.	1.4	2
456	Development of a Photosynthetic Microbial Electrochemical Cell (PMEC) Reactor Coupled with Dark Fermentation of Organic Wastes: Medium Term Perspectives. Energies, 2015, 8, 399-429.	1.6	33
457	Evaluation of Fermentative Hydrogen Production from Single and Mixed Fruit Wastes. Energies, 2015, 8, 4253-4272.	1.6	40
458	Third generation biohydrogen production by Clostridium butyricum and adapted mixed cultures from Scenedesmus obliquus microalga biomass. Fuel, 2015, 153, 128-134.	3.4	98
459	Biohydrogen Production: Strategies to Improve Process Efficiency through Microbial Routes. International Journal of Molecular Sciences, 2015, 16, 8266-8293.	1.8	303
460	Cyanobacteria: the bright and dark sides of a charming group. Biodiversity and Conservation, 2015, 24, 711-738.	1.2	47
461	Synthesis, Characterization and Electrocatalysis of Phenyl-Functionalized Diiron Propanediselenolato Complexes. Journal of Cluster Science, 2015, 26, 1755-1771.	1.7	6
462	Noble metal-free hydrogen evolution catalysts for water splitting. Chemical Society Reviews, 2015, 44, 5148-5180.	18.7	4,776
463	Towards a smart energy network: The roles of fuel/electrolysis cells and technological perspectives. International Journal of Hydrogen Energy, 2015, 40, 6866-6919.	3.8	141
464	Membrane reactors for biohydrogen production and processing. , 2015, , 267-286.		3
465	Growth kinetics of Chlorococcum humicola " A potential feedstock for biomass with biofuel properties. Ecotoxicology and Environmental Safety, 2015, 121, 258-262.	2.9	5
466	A theoretical analysis of optical absorption limits and performance of tandem devices and series interconnected architectures for solar hydrogen production. Solar Energy Materials and Solar Cells, 2015, 138, 86-95.	3.0	34
467	A perspective on gaseous biofuel production from micro-algae generated from CO ₂ from a coal-fired power plant. Applied Energy, 2015, 148, 396-402.	5.1	32
468	2 Analysis and assessment of current photobioreactor systems for photobiological hydrogen production. , 0, , .		0

#	ARTICLE	IF	CITATIONS
469	Structure and growth of research on biohydrogen generation using wastewater. International Journal of Hydrogen Energy, 2015, 40, 16056-16069.	3.8	7
470	Advances in Bioprocess Technology. , 2015, , .		6
471	CIGS based devices for solar hydrogen production spanning from PEC-cells to PV-electrolyzers: A comparison of efficiency, stability and device topology. Solar Energy Materials and Solar Cells, 2015, 134, 185-193.	3.0	44
472	The glucose metabolic distribution in thermophilic (55Â°C) mixed culture fermentation: A chemostat study. International Journal of Hydrogen Energy, 2015, 40, 919-926.	3.8	24
473	Simultaneous production of bio-hydrogen and methane from soybean protein processing wastewater treatment using anaerobic baffled reactor (ABR). Desalination and Water Treatment, 2015, 53, 2675-2685.	1.0	15
474	Nonlinear control of continuous cultures of Porphyridium purpureum in a photobioreactor. Chemical Engineering Science, 2015, 123, 207-219.	1.9	19
475	Hydrogen production by Rhodobacter sphaeroides DSM 158 under intense irradiation. Bioresource Technology, 2015, 175, 82-90.	4.8	27
476	Modeling and Optimization of Biohydrogen Production from De-oiled Jatropha Using the Response Surface Method. Arabian Journal for Science and Engineering, 2015, 40, 15-22.	1.1	28
477	Auto-flotation of heterocyst enables the efficient production of renewable energy in cyanobacteria. Scientific Reports, 2014, 4, 3998.	1.6	24
478	Advances in the biotechnology of hydrogen production with the microalga <i>Chlamydomonas reinhardtii</i> . Critical Reviews in Biotechnology, 2015, 35, 485-496.	5.1	69
479	Carbon Dioxide Utilization for an Enhanced Biohydrogen Production of a Biomass Hydrolysate. American Journal of Environmental Sciences, 2016, 12, 282-290.	0.3	3
480	Use of carbohydrates for hydrogen storage. , 2016, , 219-241.		1
481	Biological and fermentative production of hydrogen. , 2016, , 303-333.		11
482	Hydrogen Production by Biochemical Energy. , 2016, , 393-409.		4
483	Thermophilic biohydrogen production for commercial application: the whole picture. International Journal of Energy Research, 2016, 40, 127-145.	2.2	25
484	Enhancing continuous photoH ₂ production using optical fiber for biofilm formation. Environmental Progress and Sustainable Energy, 2016, 35, 455-460.	1.3	3
485	Structure and Function of Photosystem Iâ€“ [FeFe] Hydrogenase Protein Fusions: An All-Atom Molecular Dynamics Study. Journal of Physical Chemistry B, 2016, 120, 599-609.	1.2	10
486	- Electrochemical Reduction of CO ₂ to Fuels. , 2016, , 380-417.		0

#	ARTICLE	IF	CITATIONS
487	Assessment of biological Hydrogen production processes: A review. IOP Conference Series: Earth and Environmental Science, 2016, 36, 012068.	0.2	3
488	Challenges and opportunities for hydrogen production from microalgae. Plant Biotechnology Journal, 2016, 14, 1487-1499.	4.1	134
489	Inhibition of dark fermentative bio-hydrogen production: A review. International Journal of Hydrogen Energy, 2016, 41, 6713-6733.	3.8	250
490	- Energy Bionics: The Bio-Analogue Strategy for a Sustainable Energy Future. , 2016, , 432-481.		0
491	Anaerobic digestion for the stabilization of the organic fraction of municipal solid waste: A review. Environmental Reviews, 2016, 24, 426-459.	2.1	42
492	Modeling microalgae derived hydrogen production enhancement via genetic modification. International Journal of Hydrogen Energy, 2016, 41, 8101-8110.	3.8	9
493	Toward a List of Molecules as Potential Biosignature Gases for the Search for Life on Exoplanets and Applications to Terrestrial Biochemistry. Astrobiology, 2016, 16, 465-485.	1.5	152
494	The in-vitro enhancement of FeFe hydrogenase activity by superoxide dismutase. International Journal of Hydrogen Energy, 2016, 41, 17274-17282.	3.8	8
497	Integrated dark- and photo-fermentation: Recent advances and provisions for improvement. International Journal of Hydrogen Energy, 2016, 41, 19957-19971.	3.8	127
498	Fermentative hydrogen production in an up-flow anaerobic biofilm reactor inoculated with a co-culture of Clostridium acetobutylicum and Desulfovibrio vulgaris. Bioresource Technology, 2016, 221, 526-533.	4.8	39
499	Overview biohydrogen technologies and application in fuel cell technology. Renewable and Sustainable Energy Reviews, 2016, 66, 137-162.	8.2	121
500	Biohydrogen and Biogas " An overview on feedstocks and enhancement process. Fuel, 2016, 185, 810-828.	3.4	193
501	Hydrogen production based on a photoactivated nanowire-forest. Journal of Materials Chemistry A, 2016, 4, 14988-14995.	5.2	5
502	Catalyst-enhanced hydrothermal generation of highly pure compressed hydrogen gas from iron micro-powders. RSC Advances, 2016, 6, 86938-86942.	1.7	3
503	Photo fermentative hydrogen production by a new strain; Rhodobacter sphaeroides CNT 2A, isolated from pond sediment. International Journal of Hydrogen Energy, 2016, 41, 13979-13985.	3.8	16
504	Energy and the Environment. , 2016, , 363-452.		17
505	Comparative study on activation of aluminum with four liquid metals to generate hydrogen in alkaline solution. International Journal of Hydrogen Energy, 2016, 41, 22663-22667.	3.8	49
506	An optimization-based planning of investment strategies for a renewable energy supply system from biomass utilization. Korean Journal of Chemical Engineering, 2016, 33, 2808-2819.	1.2	11

#	ARTICLE	IF	CITATIONS
507	Carbon source utilization and hydrogen production by isolated anaerobic bacteria. Acta Chimica Slovaca, 2016, 9, 62-67.	0.5	3
508	Bioelectricity generation from pig farm wastewater in microbial fuel cell using carbon brush as electrode. International Journal of Hydrogen Energy, 2016, 41, 16191-16195.	3.8	31
509	Production of hydrogen energy from dilute acid-hydrolyzed palm oil mill effluent in dark fermentation using an empirical model. International Journal of Hydrogen Energy, 2016, 41, 16373-16384.	3.8	41
510	Biological Processes for Hydrogen Production. Advances in Biochemical Engineering/Biotechnology, 2016, 156, 155-193.	0.6	7
511	Growth and hydrogen production of outdoor cultures of Synechocystis PCC 6803. Algal Research, 2016, 18, 78-85.	2.4	22
512	Mass transfer modeling and maximization of hydrogen rhythmic production from genetically modified microalgae biomass. International Journal of Heat and Mass Transfer, 2016, 101, 1-9.	2.5	10
513	Modeling and simulation of diesel, biodiesel and biogas mixtures driven compression ignition internal combustion engines. International Journal of Energy Research, 2016, 40, 100-111.	2.2	11
514	Genomic and proteomic approaches for dark fermentative biohydrogen production. Renewable and Sustainable Energy Reviews, 2016, 56, 1308-1321.	8.2	22
515	Hydrothermal generation of compressed hydrogen gas by iron powders. RSC Advances, 2016, 6, 8930-8934.	1.7	7
516	Function of homoacetogenesis on the heterotrophic methane production with exogenous H ₂ /CO ₂ involved. Chemical Engineering Journal, 2016, 284, 1196-1203.	6.6	78
517	Advances in the genetic modification of Rhodobacter sphaeroides to improve hydrogen production. Renewable and Sustainable Energy Reviews, 2016, 60, 1312-1318.	8.2	14
518	Fundamentals and Recent Advances in Hydrogen Production and Nitrogen Fixation in Cyanobacteria. , 2016, , 101-127.		6
519	Kinetic modeling of fermentative hydrogen production by Thermotoga neapolitana. International Journal of Hydrogen Energy, 2016, 41, 4931-4940.	3.8	41
520	Hydrogen generation enhanced by nano-forest structures. RSC Advances, 2016, 6, 12953-12958.	1.7	8
521	Recent advances in hydrogen production by photosynthetic bacteria. International Journal of Hydrogen Energy, 2016, 41, 4446-4454.	3.8	102
522	Comparative Genomics of Core Metabolism Genes of Cellulolytic and Non-cellulolytic Clostridium Species. Advances in Biochemical Engineering/Biotechnology, 2016, 156, 79-112.	0.6	2
523	Biological hydrogen and methane production from bagasse bioethanol fermentation residues using a two-stage bioprocess. Bioresource Technology, 2016, 210, 49-55.	4.8	23
524	Biological Hydrogen Production from Lignocellulosic Biomass. Green Energy and Technology, 2016, , 111-127.	0.4	1

#	ARTICLE	IF	CITATIONS
525	Enriched Methane. Green Energy and Technology, 2016, , .	0.4	1
526	Producing carbohydrate-rich microalgal biomass grown under mixotrophic conditions as feedstock for biohydrogen production. International Journal of Hydrogen Energy, 2016, 41, 4413-4420.	3.8	52
527	Rapid separation of microalga <i>Chlorella vulgaris</i> using magnetic chitosan: Process optimization using response surface methodology. Particulate Science and Technology, 2016, 34, 165-172.	1.1	12
528	Microbial diversity in support of anaerobic biomass valorization. Critical Reviews in Biotechnology, 2017, 37, 1-10.	5.1	27
529	Photo-fermentative hydrogen production from crop residue: A mini review. Bioresource Technology, 2017, 229, 222-230.	4.8	90
530	Bond Activation and Hydrogen Evolution from Water through Reactions with M3S4 (M = Mo, W) and W3S3 Anionic Clusters. Journal of Physical Chemistry A, 2017, 121, 1760-1767.	1.1	6
531	Improvement of hydrogen production by biological route using repeated batch cycles. Process Biochemistry, 2017, 58, 60-68.	1.8	26
532	Impact of furan derivatives and phenolic compounds on hydrogen production from organic fraction of municipal solid waste using co-culture of <i>Enterobacter aerogenes</i> and <i>E. coli</i> . Bioresource Technology, 2017, 239, 49-56.	4.8	25
533	Thermochemical hydrogen generation of indium oxide thin films. AIP Advances, 2017, 7, 035207.	0.6	10
534	Enhancement of Hydrogen Production through a Mixed Culture of <i>Enterobacter cloacae</i> and <i>Rhodobacter sphaeroides</i> . Energy & Fuels, 2017, 31, 7234-7240.	2.5	13
535	Microbial ecology of fermentative hydrogen producing bioprocesses: useful insights for driving the ecosystem function. FEMS Microbiology Reviews, 2017, 41, 158-181.	3.9	194
536	Effect of salinity stress on growth, lipid productivity, fatty acid composition, and biodiesel properties in <i>Acutodesmus obliquus</i> and <i>Chlorella vulgaris</i> . Environmental Science and Pollution Research, 2017, 24, 13437-13451.	2.7	126
537	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> . International Journal of Hydrogen Energy, 2017, 42, 830-837.	3.8	32
538	Recent insights into biohydrogen production by microalgae – From biophotolysis to dark fermentation. Bioresource Technology, 2017, 227, 373-387.	4.8	241
539	Bio hydrogen production from cassava starch by anaerobic mixed cultures: Multivariate statistical modeling. AIP Conference Proceedings, 2017, , .	0.3	0
540	Optimization of the yield of dark microaerobic production of hydrogen from lactate by <i>Rhodospseudomonas palustris</i> . Bioresource Technology, 2017, 245, 123-131.	4.8	13
541	Coupling dark fermentation with biochemical or bioelectrochemical systems for enhanced bio-energy production: A review. International Journal of Hydrogen Energy, 2017, 42, 26667-26686.	3.8	62
542	Enhanced Biological Hydrogen Production from <i>Escherichia coli</i> with Surface Precipitated Cadmium Sulfide Nanoparticles. Advanced Energy Materials, 2017, 7, 1700611.	10.2	133

#	ARTICLE	IF	CITATIONS
543	Biochar-enhanced hydrogen production from organic fraction of municipal solid waste using co-culture of <i>Enterobacter aerogenes</i> and <i>E. coli</i> . <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18865-18874.	3.8	77
544	Bioelectrohydrogenesis and inhibition of methanogenic activity in microbial electrolysis cells - A review. <i>Biotechnology Advances</i> , 2017, 35, 758-771.	6.0	63
545	Advancements and confinements in hydrogen production technologies. , 2017, , 373-418.		13
546	Integration of microalgae into an existing biofuel industry. , 2017, , 481-519.		8
547	Bioenergy production from second- and third-generation feedstocks. , 2017, , 559-599.		13
548	Biophotolysis-based hydrogen and lipid production by oleaginous microalgae using crude glycerol as exogenous carbon source. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1970-1976.	3.8	70
549	Optimization of fermentative hydrogen production from palm oil mill effluent in an up-flow anaerobic sludge blanket fixed film bioreactor. <i>Sustainable Environment Research</i> , 2017, 27, 238-244.	2.1	30
550	Biohydrogen Production Scenario for Asian Countries. , 2017, , 207-235.		7
551	Biohydrogen Production from Agricultural Biomass and Organic Wastes. , 2017, , 49-67.		3
552	Characterization and Screening of Algal Strains for Sustainable Biohydrogen Production: Primary Constraints. , 2017, , 115-146.		4
553	Exploiting Biohydrogen Pathways of Cyanobacteria and Green Algae: An Industrial Production Approach. , 2017, , 97-113.		8
554	Waste-to-Hydrogen Energy in Saudi Arabia: Challenges and Perspectives. , 2017, , 237-252.		29
555	Biohydrogen Economy: Challenges and Prospects for Commercialization. , 2017, , 253-267.		9
556	A comparative overview of hydrogen production processes. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 597-611.	8.2	1,842
557	Hydrogen producer isolated from agricultural wastewater and molasses. <i>Energy Procedia</i> , 2017, 138, 140-144.	1.8	6
558	Biohydrogen Production: An Outlook of Fermentative Processes and Integration Strategies. , 2017, , 249-265.		1
559	Sustainable Reactors for Biomass Conversion Using Pyrolysis and Fermentation. , 2017, , 541-552.		4
560	A critical review on factors influencing fermentative hydrogen production. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 1195-1220.	3.0	45

#	ARTICLE	IF	CITATIONS
561	Introduction of Hydrogen Routines. , 2017, , 35-54.		9
562	Cyanobacterial nitrogenases: phylogenetic diversity, regulation and functional predictions. Genetics and Molecular Biology, 2017, 40, 261-275.	0.6	55
563	Electrodeposited amorphous Coâ€Pâ€B ternary catalyst for hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 6282-6288.	5.2	83
564	Effect of nitrogen gas sparging on dark fermentative biohydrogen production using suspended and immobilized cells of anaerobic mixed bacteria from potato waste. Biofuels, 2018, 9, 595-604.	1.4	14
565	Basics of Bio-hydrogen Production by Dark Fermentation. Green Energy and Technology, 2018, , 199-220.	0.4	21
566	Hydrogen from Photo Fermentation. Green Energy and Technology, 2018, , 221-317.	0.4	27
567	Enterobacter ludwigii strain IF2SW-B4 isolated for bio-hydrogen production from rice bran and de-oiled rice bran. Environmental Technology and Innovation, 2018, 10, 345-354.	3.0	26
568	Hydrogen production, storage, transportation and key challenges with applications: A review. Energy Conversion and Management, 2018, 165, 602-627.	4.4	957
569	Anaerobic phototrophic processes of hydrogen production by different strains of microalgae Chlamydomonas sp. FEMS Microbiology Letters, 2018, 365, .	0.7	33
570	Autotrophic Microalgae Biomass Production: From Niche Markets to Commodities. Industrial Biotechnology, 2018, 14, 3-10.	0.5	43
571	Quantitative real-time PCR monitoring dynamics of Thermotoga neapolitana in synthetic co-culture for biohydrogen production. International Journal of Hydrogen Energy, 2018, 43, 3133-3141.	3.8	21
572	Techno-economic analysis and life cycle assessment of hydrogen production from different biomass gasification processes. International Journal of Hydrogen Energy, 2018, 43, 9514-9528.	3.8	184
573	Repeatable hydrogen generation of 3D microporous nickel membrane using chemical milling. Journal Physics D: Applied Physics, 2018, 51, 185501.	1.3	0
574	Optimization of biomass and hydrogen production by Anabaena sp. (UTEX 1448) in nitrogen-deprived cultures. Biomass and Bioenergy, 2018, 111, 70-76.	2.9	43
575	A simple gas pressure manometer for measuring hydrogen production by hydrogenogenic cultures in serum bottles. Process Biochemistry, 2018, 65, 157-163.	1.8	1
576	Prospects of Alternative Transportation Fuels. Energy, Environment, and Sustainability, 2018, , .	0.6	5
577	Hydrogen Production Through Biological Route. Energy, Environment, and Sustainability, 2018, , 23-38.	0.6	1
578	Scaling-up bio-hydrogen production from food waste: Feasibilities and challenges. International Journal of Hydrogen Energy, 2018, 43, 634-648.	3.8	111

#	ARTICLE	IF	CITATIONS
579	Demonstration and optimization of sequential microaerobic dark- and photo-fermentation biohydrogen production by immobilized <i>Rhodobacter capsulatus</i> JP91. <i>Bioresource Technology</i> , 2018, 250, 43-52.	4.8	48
580	Fermentative hydrogen production from low-value substrates. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 176.	1.7	23
581	Effect of DSA electrode (A304 RuO ₂) on the electrochemical production of H ₂ (g). <i>International Journal of Electrochemical Science</i> , 2018, 13, 10873-10883.	0.5	2
582	The physiology and biotechnology of dark fermentative biohydrogen production. <i>Biotechnology Advances</i> , 2018, 36, 2165-2186.	6.0	39
583	Hydrogen Supply Chain Design: Key Technological Components and Sustainable Assessment. , 2018, , 37-79.		4
584	Hydrogen production from pine-derived catalytic pyrolysis aqueous phase via microbial electrolysis. <i>Biomass and Bioenergy</i> , 2018, 119, 1-9.	2.9	20
585	Light and photosynthetic microalgae: A review of cellular- and molecular-scale optical processes. <i>Progress in Oceanography</i> , 2018, 168, 43-56.	1.5	81
586	Exfoliated molybdenum di-sulfide (MoS ₂) electrode for hydrogen production in microbial electrolysis cell. <i>Bioelectrochemistry</i> , 2018, 123, 201-210.	2.4	33
587	Hydrogen production from biomass using dark fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 665-694.	8.2	398
588	Micro-Macroalgae Properties and Applications. , 2018, , .		11
589	Integrated system approach to dark fermentative biohydrogen production for enhanced yield, energy efficiency and substrate recovery. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 501-529.	3.9	33
590	Acetogen Communities in the Gut of Herbivores and Their Potential Role in Syngas Fermentation. <i>Fermentation</i> , 2018, 4, 40.	1.4	20
591	An Eco-Friendly System for the Production of Value-Added Materials from Dairy Manure. <i>Jom</i> , 2018, 70, 1946-1957.	0.9	6
592	Water-splitting-based, sustainable and efficient H ₂ production in green algae as achieved by substrate limitation of the Calvinâ€“Bensonâ€“Bassham cycle. <i>Biotechnology for Biofuels</i> , 2018, 11, 69.	6.2	61
593	Anaerobic membrane bioreactors for biohydrogen production: Recent developments, challenges and perspectives. <i>Bioresource Technology</i> , 2018, 269, 452-464.	4.8	100
594	A review on the utilization of hybrid renewable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 1121-1147.	8.2	273
595	Metal Oxides/Chalcogenides and Composites. <i>SpringerBriefs in Materials</i> , 2019, , .	0.1	16
596	Research advances towards large-scale solar hydrogen production from water. <i>EnergyChem</i> , 2019, 1, 100014.	10.1	130

#	ARTICLE	IF	CITATIONS
597	Electroactive Materials. SpringerBriefs in Materials, 2019, , 31-67.	0.1	0
598	Emerging Technologies for Biofuels Production. , 2019, , 45-76.		3
599	Hydrogen production. , 2019, , 45-83.		83
600	Hydrogen production in reactors: The influence of organic loading rate, inoculum and support material. International Journal of Hydrogen Energy, 2019, 44, 27259-27271.	3.8	23
601	Implementation of artificial neural network model for continuous hydrogen production using confectionery wastewater. Journal of Environmental Management, 2019, 252, 109684.	3.8	26
603	Catalytic effect of EG and MoS ₂ on hydrolysis hydrogen generation behavior of high-energy ball-milled Mg ₁₀ wt.%Ni alloys in NaCl solution: A powerful strategy for superior hydrogen generation performance. International Journal of Energy Research, 2019, 43, 8426.	2.2	12
604	New environmental model for thermodynamic ecology of biological phosphine production. Science of the Total Environment, 2019, 658, 521-536.	3.9	41
605	Biohydrogen Production: Status and Perspectives. , 2019, , 693-713.		15
606	Microstructure evolution and controlled hydrolytic hydrogen generation strategy of Mg-rich Mg-Ni-La ternary alloys. Energy, 2019, 188, 116081.	4.5	40
607	Recent progress in thermochemical techniques to produce hydrogen gas from biomass: A state of the art review. International Journal of Hydrogen Energy, 2019, 44, 25384-25415.	3.8	170
608	Development of a Bioelectrochemical System as a Tool to Enrich H ₂ -Producing Syntrophic Bacteria. Frontiers in Microbiology, 2019, 10, 110.	1.5	10
609	Sustainable Hydrogen Production. , 2019, , 1-23.		9
610	Carbohydrate-to-hydrogen production technologies: A mini-review. Renewable and Sustainable Energy Reviews, 2019, 105, 138-143.	8.2	67
611	Thermophilic Fermentation for Enhanced Biohydrogen Production. , 2019, , 123-139.		1
612	Acidogenic Biohydrogen Production From Wastewater. , 2019, , 279-320.		8
613	Bioreactor and Bioprocess Design for Biohydrogen Production. , 2019, , 391-411.		7
614	Households' willingness to pay for developing marine bio-hydrogen technology: The case of South Korea. International Journal of Hydrogen Energy, 2019, 44, 12907-12917.	3.8	13
615	Advancement of Bio-hydrogen Production from Microalgae. , 2019, , 423-462.		12

#	ARTICLE	IF	CITATIONS
616	Application of nanotechnology in dark fermentation for enhanced biohydrogen production using inorganic nanoparticles. International Journal of Hydrogen Energy, 2019, 44, 13106-13113.	3.8	159
617	Biophotolysis-Based Hydrogen Production by Cyanobacteria. Biofuel and Biorefinery Technologies, 2019, , 161-184.	0.1	11
618	Biogas yield by co-fermentation of Scenedesmus and solid waste collected from sturgeon culturing system. IOP Conference Series: Earth and Environmental Science, 2019, 227, 022012.	0.2	0
619	Photoheterotrophic growth of purple non-sulfur bacteria on Tris Acetate Phosphate Yeast extract (TAPY) medium and its hydrogen productivity in light under nitrogen deprivation. International Journal of Hydrogen Energy, 2019, 44, 9282-9290.	3.8	9
620	Biohydrogen Production From Renewable Resources. , 2019, , 289-312.		7
621	Photobiological Production of Biohydrogen: Recent Advances and Strategy. Biofuel and Biorefinery Technologies, 2019, , 89-116.	0.1	5
622	A Review of the Enhancement of Bio-Hydrogen Generation by Chemicals Addition. Catalysts, 2019, 9, 353.	1.6	75
623	Production d'hydrogène par procédés biologiques. Oil and Gas Science and Technology, 2019, 74, 34.	1.4	3
624	Prospects of Renewable Bioprocessing in Future Energy Systems. Biofuel and Biorefinery Technologies, 2019, , .	0.1	39
625	Crossing the Thauer limit: rewiring cyanobacterial metabolism to maximize fermentative H ₂ production. Energy and Environmental Science, 2019, 12, 1035-1045.	15.6	10
626	Hydrogen production from phototrophic microorganisms: Reality and perspectives. International Journal of Hydrogen Energy, 2019, 44, 5799-5811.	3.8	176
627	Metabolic Engineering and Molecular Biotechnology of Biohydrogen Production. , 2019, , 413-434.		10
628	Biohydrogen Production From Algae. , 2019, , 219-245.		27
629	Modeling and Simulation of the Biohydrogen Production Processes. , 2019, , 445-483.		6
630	Photofermentative Hydrogen Production. , 2019, , 141-157.		17
631	Outlook of fermentative hydrogen production techniques: An overview of dark, photo and integrated dark-photo fermentative approach to biomass. Energy Strategy Reviews, 2019, 24, 27-37.	3.3	206
634	High efficient biohydrogen production from palm oil mill effluent by two-stage dark fermentation and microbial electrolysis under thermophilic condition. International Journal of Hydrogen Energy, 2019, 44, 31841-31852.	3.8	44
635	Potential of Hydrogen Production From Biomass. , 2019, , 123-164.		24

#	ARTICLE	IF	CITATIONS
636	A Study on the Role of Clostridium Saccharoperbutylacetonicum N1-4 (ATCC 13564) in Producing Fermentative Hydrogen. International Journal of Chemical Reactor Engineering, 2019, 17, .	0.6	3
637	Bioenergy for Sustainability and Security. , 2019, , .		4
638	Green Gaseous Fuel Technology. , 2019, , 205-264.		3
639	Hydrogen derived from algae and cyanobacteria as a decentralized fueling option for hydrogen powered cars: Size, space, and cost characteristics of potential bioreactors. International Journal of Sustainable Transportation, 2020, 14, 325-334.	2.1	4
640	Dark fermentative biohydrogen production from lignocellulosic biomass: Technological challenges and future prospects. Renewable and Sustainable Energy Reviews, 2020, 117, 109484.	8.2	160
641	Biohydrogen production from waste materials: benefits and challenges. International Journal of Environmental Science and Technology, 2020, 17, 559-576.	1.8	41
642	Bio-hydrogen and methane production from two-phase anaerobic digestion of food waste under the scheme of acidogenic off-gas reuse. Bioresource Technology, 2020, 297, 122400.	4.8	36
643	Bioaugmentation enhances dark fermentative hydrogen production in cultures exposed to short-term temperature fluctuations. Applied Microbiology and Biotechnology, 2020, 104, 439-449.	1.7	18
644	Iron based catalysts in biomass processing. Renewable and Sustainable Energy Reviews, 2020, 134, 110292.	8.2	24
645	Food waste valorization by purple phototrophic bacteria and anaerobic digestion after thermal hydrolysis. Biomass and Bioenergy, 2020, 142, 105803.	2.9	15
646	Renewable hydrogen for the chemical industry. MRS Energy & Sustainability, 2020, 7, 1.	1.3	58
647	An overview on the efficiency of biohydrogen production from cellulose. Biomass Conversion and Biorefinery, 2023, 13, 8485-8507.	2.9	12
648	Novel Biofuel Cell Using Hydrogen Generation of Photosynthesis. Journal of Functional Biomaterials, 2020, 11, 81.	1.8	4
649	Revising the dark fermentative H2 research and development scenario “ An overview of the recent advances and emerging technological approaches. Biomass and Bioenergy, 2020, 140, 105673.	2.9	22
650	PI/NCC Carbon Membrane: Effect of Additives loading Towards Hydrogen Separation. IOP Conference Series: Materials Science and Engineering, 2020, 736, 022002.	0.3	3
651	Development of a low purity aluminum alloy (Al6082) anodization process and its application as a platinum-based catalyst in catalytic hydrogen combustion. Surface and Coatings Technology, 2020, 404, 126483.	2.2	20
652	Heterologous Hydrogenase Overproduction Systems for Biotechnology” An Overview. International Journal of Molecular Sciences, 2020, 21, 5890.	1.8	13
653	Overview of Biomass Conversion to Electricity and Hydrogen and Recent Developments in Low-Temperature Electrochemical Approaches. Engineering, 2020, 6, 1351-1363.	3.2	49

#	ARTICLE	IF	CITATIONS
654	Membrane reactor technology and catalysis for intensified hydrogen production. , 2020, , 121-140.		1
655	A state of the art review on biomass processing and conversion technologies to produce hydrogen and its recovery via membrane separation. International Journal of Hydrogen Energy, 2020, 45, 15166-15195.	3.8	102
656	Algae-Bacteria Consortia as a Strategy to Enhance H2 Production. Cells, 2020, 9, 1353.	1.8	48
657	Isolation and characterization of a novel photoheterotrophic strain <i>Rubrivivax benzoatilyticus</i> TERI-CHL1 TM : Photo fermentative hydrogen production from spent effluent. International Journal of Hydrogen Energy, 2020, 45, 14245-14254.	3.8	17
658	Dairy wastewater treatment using composite membranes. , 2020, , 261-288.		4
659	Transparent polyvinyl-alcohol cryogel as immobilisation matrix for continuous biohydrogen production by phototrophic bacteria. Biotechnology for Biofuels, 2020, 13, 105.	6.2	29
660	Anaerobic membrane reactors for biohydrogen production. , 2020, , 367-397.		1
661	Reviewing the potential of bio-hydrogen production by fermentation. Renewable and Sustainable Energy Reviews, 2020, 131, 110023.	8.2	159
662	Biohydrogen production via thermophilic fermentation: A prospective application of <i>Thermotoga</i> species. Energy, 2020, 197, 117199.	4.5	46
664	Utilization of food waste for bio-hydrogen and bio-methane production: influences of temperature, OLR, and in situ aeration. Journal of Material Cycles and Waste Management, 2020, 22, 1218-1226.	1.6	24
665	Recent advanced biotechnological strategies to enhance photo-fermentative biohydrogen production by purple non-sulphur bacteria: An overview. International Journal of Hydrogen Energy, 2020, 45, 13211-13230.	3.8	79
666	Green technology for sustainable biohydrogen production (waste to energy): A review. Science of the Total Environment, 2020, 728, 138481.	3.9	144
667	Is the H2 economy realizable in the foreseeable future? Part I: H2 production methods. International Journal of Hydrogen Energy, 2020, 45, 13777-13788.	3.8	186
668	Metals addition for enhanced hydrogen, acetic and butyric acids production from cellulosic substrates by <i>Clostridium butyricum</i> . Biomass and Bioenergy, 2021, 150, 105679.	2.9	6
669	Microbial production of hydrogen. , 2021, , 315-337.		3
670	Recent Advancement on Anion Exchange Membranes for Fuel Cell and Water Electrolysis. ChemElectroChem, 2021, 8, 36-45.	1.7	68
671	A developed hybrid fixed-bed bioreactor with Fe-modified zeolite to enhance and sustain biohydrogen production. Science of the Total Environment, 2021, 758, 143658.	3.9	23
672	Sustained photobiological hydrogen production by <i>Chlorella vulgaris</i> without nutrient starvation. International Journal of Hydrogen Energy, 2021, 46, 3684-3694.	3.8	26

#	ARTICLE	IF	CITATIONS
673	Biomass-to-hydrogen: A review of main routes production, processes evaluation and techno-economical assessment. Biomass and Bioenergy, 2021, 144, 105920.	2.9	234
674	Nanotechnology and the Generation of Sustainable Hydrogen. Green Energy and Technology, 2021, , .	0.4	1
675	State-of-the-art technologies for continuous high-rate biohydrogen production. Bioresource Technology, 2021, 320, 124304.	4.8	73
676	Waste to biohydrogen. , 2021, , 55-70.		5
677	Microbial Degradation for the Production of Value-Added Compounds: Biohydrogen from Dark Fermentation and Microbial Electrolysis Cells. Environmental and Microbial Biotechnology, 2021, , 219-250.	0.4	1
678	Biohydrogen Production Through Mixed Culture Dark Anaerobic Fermentation of Industrial Waste. Handbook of Environmental Engineering, 2021, , 323-369.	0.2	4
679	Hydrogen in Australian natural gas: occurrences, sources and resources. APPEA Journal, 2021, 61, 163.	0.4	41
680	Recent advances in activating surface reconstruction for the high-efficiency oxygen evolution reaction. Chemical Society Reviews, 2021, 50, 8428-8469.	18.7	452
681	Bioconversion of Lignocellulosic Residues into Hydrogen. Advances in Science, Technology and Innovation, 2021, , 59-80.	0.2	1
682	Bioconversion of Hemicelluloses into Hydrogen. Advances in Science, Technology and Innovation, 2021, , 267-280.	0.2	1
683	Hydrogen Production. , 2021, , 1-47.		0
684	Bacterial Hydrogen Production: Prospects and Challenges. Clean Energy Production Technologies, 2021, , 195-229.	0.3	0
685	A review on potential of biohydrogen generation through waste decomposition technologies. Biomass Conversion and Biorefinery, 2023, 13, 8549-8574.	2.9	14
686	Effect of silica-core gold-shell nanoparticles on the kinetics of biohydrogen production and pollutant hydrogenation via organic acid photofermentation over enhanced near-infrared illumination. International Journal of Hydrogen Energy, 2021, 46, 7821-7835.	3.8	16
688	Pretreatment of second and third generation feedstock for enhanced biohythane production: Challenges, recent trends and perspectives. International Journal of Hydrogen Energy, 2021, 46, 11252-11268.	3.8	37
689	Scaling Up Sustainable Biofuels for a Low-Carbon Future. , 0, , .		0
690	Interfacing Iodineâ€Doped Hydrothermally Carbonized Carbon with <i>Escherichia coli</i> through an â€œAddâ€•Mode for Enhanced Lightâ€Driven Hydrogen Production. Advanced Energy Materials, 2021, 11, 2100291.	10.2	34
692	Synthetic Fuels Based on Dimethyl Ether as a Future Non-Fossil Fuel for Road Transport From Sustainable Feedstocks. Frontiers in Energy Research, 2021, 9, .	1.2	28

#	ARTICLE	IF	CITATIONS
693	Influence of Sulfur and Light Intensity in Nutrient Removal, and Hydrogen and Ethanol Production by Improved Biomass of <i>Chlamydomonas reinhardtii</i> in Batch Anaerobic Photobioreactors. <i>Bioenergy Research</i> , 0, , 1.	2.2	2
694	Microbial electrohydrogenesis cell and dark fermentation integrated system enhances biohydrogen production from lignocellulosic agricultural wastes: Substrate pretreatment towards optimization. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111078.	8.2	49
695	Hydrogen supply chain and challenges in large-scale LH2 storage and transportation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24149-24168.	3.8	158
696	Biohydrogen Production From Biomass Sources: Metabolic Pathways and Economic Analysis. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	90
697	Value Proposition of Different Methods for Utilisation of Sugarcane Wastes. <i>Energies</i> , 2021, 14, 5483.	1.6	8
699	Emerging technologies for sustainable production of biohydrogen production from microalgae: A state-of-the-art review of upstream and downstream processes. <i>Bioresource Technology</i> , 2021, 342, 126057.	4.8	26
700	Hydrogen Production From Waste and Renewable Resources. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2021, , 22-46.	0.2	4
701	Improvement of fermentative hydrogen production: various approaches. , 2004, 65, 520.		1
702	Photobiological Methods of Renewable Hydrogen Production. , 2008, , 229-271.		8
703	Hydrogen Production. , 2012, , 1091-1130.		3
704	Hydrogen from Biomass. , 2014, , 1-21.		1
705	Hydrogen Production from Algal Pathways. , 2019, , 975-1002.		1
706	Two-Stage Process to Enhance Bio-hydrogen Production. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 149-179.	0.1	2
707	Utilization of Lignocellulose-feeding Insects for Viable Biofuels: an Emerging and Promising Area of Entomological Science. , 2011, , 434-500.		12
708	Heutige und zukünftige Kraftstoffe für Brennstoffzellen in der Luftfahrt. , 2015, , 7-100.		1
709	Integrative Approach for Biohydrogen and Polyhydroxyalkanoate Production. , 2015, , 73-85.		19
710	The Physiology and Functional Genomics of Cyanobacterial Hydrogenases and Approaches Towards Biohydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 357-381.	1.0	4
711	Biotechnology of Hydrogen Production with the Microalga <i>Chlamydomonas reinhardtii</i> . <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 305-320.	0.3	1

#	ARTICLE	IF	CITATIONS
712	Bioenergy from Microorganisms: An Overview. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 3-21.	1.0	5
713	Photosynthesis and Hydrogen Production in Purple Non Sulfur Bacteria: Fundamental and Applied Aspects. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 269-290.	1.0	7
714	Photobioreactors Design for Hydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 291-320.	1.0	7
715	The Extremely Thermophilic Genus <i>Caldicellulosiruptor</i> : Physiological and Genomic Characteristics for Complex Carbohydrate Conversion to Molecular Hydrogen. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 177-195.	1.0	5
716	Rewiring of Cyanobacterial Metabolism for Hydrogen Production: Synthetic Biology Approaches and Challenges. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1080, 171-213.	0.8	12
717	Conversion of Rice Husk and Nutshells into Gaseous, Liquid, and Solid Biofuels. , 2020, , 171-194.		4
718	Utilization and Management of Agricultural Wastes for Bioenergy Production, Weed Control, and Soil Improvement Through Microbial and Technical Processes. , 2020, , 143-173.		1
719	Hydrogen Production by Suspension and Immobilized Cultures of Phototrophic Microorganisms. Technological Aspects. , 2004, , 57-71.		6
720	Two-stage fermentation process for bioenergy and biochemicals production from industrial and agricultural wastewater. <i>Advances in Bioenergy</i> , 2020, 5, 249-308.	0.5	5
721	Metagenomic analysis of autochthonous microbial biomass from banana waste: Screening design of factors that affect hydrogen production. <i>Biomass and Bioenergy</i> , 2020, 138, 105573.	2.9	24
722	Methane and hydrogen production from cotton waste by dark fermentation under anaerobic and micro-aerobic conditions. <i>Biomass and Bioenergy</i> , 2020, 138, 105576.	2.9	31
723	Investigation of the interaction between lighting and mixing applied during the photo-fermentation biohydrogen production process from agricultural waste. <i>Bioresource Technology</i> , 2020, 312, 123570.	4.8	49
724	Biohydrogen production from cheese whey powder by <i>Enterobacter asburiae</i> : Effect of operating conditions on hydrogen yield and chemometric study of the fermentative metabolites. <i>Energy Reports</i> , 2020, 6, 1170-1180.	2.5	26
725	Biohydrogen production improvement using hot compressed water pretreatment on sake brewery waste. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17220-17232.	3.8	21
726	Production of polyhydroxybutyrate by pure and mixed cultures of purple non-sulfur bacteria: A review. <i>Journal of Biotechnology</i> , 2020, 317, 39-47.	1.9	45
727	The surprising diversity of clostridial hydrogenases: a comparative genomic perspective. <i>Microbiology (United Kingdom)</i> , 2010, 156, 1575-1588.	0.7	206
728	Biofuels from Microalgae. , 2009, , 445-474.		27
729	Biohydrogen production from engineered microalgae <i>Chlamydomonas reinhardtii</i> . <i>Advances in Energy Research</i> , 2014, 2, 1-9.	0.4	7

#	ARTICLE	IF	CITATIONS
730	High-Yield Hydrogen Production from Starch and Water by a Synthetic Enzymatic Pathway. PLoS ONE, 2007, 2, e456.	1.1	224
731	Reconstruction of a regulated two-cell metabolic model to study biohydrogen production in a diazotrophic cyanobacterium <i>Anabaena variabilis</i> ATCC 29413. PLoS ONE, 2020, 15, e0227977.	1.1	15
732	Effect of Soil Extract in Different Culture Medium for Marine Microalgae's Biomass and Lipid Production in Biodiesel Production. Journal of Life Sciences and Technologies, 2016, , .	0.0	2
733	Key issues in estimating energy and greenhouse gas savings of biofuels: challenges and perspectives. Biofuel Research Journal, 2016, 3, 380-393.	7.2	127
735	Southeast Asian Water Environment 4. Water Intelligence Online, 0, 9, .	0.3	4
736	Statistical Optimization of Biohydrogen Production Using Food Waste Under Thermophilic Conditions. The Open Renewable Energy Journal, 2010, 2, 124-131.	0.7	16
737	Recent developments in biological hydrogen production processes. Chemical Industry and Chemical Engineering Quarterly, 2008, 14, 57-67.	0.4	148
738	Characteristics of hydrogen production from food waste and waste activated sludge. Journal of Water and Environment Technology, 2003, 1, 177-187.	0.3	15
741	Green Synthetic Fuels: Renewable Routes for the Conversion of Non-Fossil Feedstocks into Gaseous Fuels and Their End Uses. Energies, 2020, 13, 420.	1.6	54
742	Sequential Anaerobic Fermentative Production of Hydrogen and Methane from Organic Fraction of Municipal Solid Waste*. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2010, 2009, 250-257.	0.1	5
743	Effect of Environmental Parameters on hydrogen Production using <i>Clostridium Saccharoperbutylaceticum</i> N1-4(ATCC 13564). American Journal of Environmental Sciences, 2009, 5, 80-86.	0.3	23
744	Trace Metal Effect on Hydrogen Production Using <i>C. acetobutylicum</i> . OnLine Journal of Biological Sciences, 2008, 8, 1-9.	0.2	12
745	Microbial Electrolysis of Synthetic Acids for Biohydrogen Production: Influence of Biocatalyst Pretreatment and pH with the Function of Applied Potential. Journal of Microbial & Biochemical Technology, 0, , .	0.2	3
746	Economics of Bio-Hydrogen Production. International Journal of Environmental Science and Development, 2015, 6, 352-356.	0.2	35
747	Microalgae Cultivation Using LED Light. Korean Chemical Engineering Research, 2014, 52, 8-16.	0.2	7
748	Bio Hydrogen Production from Pharmaceutical Waste Water Treatment by a Suspended Growth Reactor Using Environmental Anaerobic Technology. American Chemical Science Journal, 2013, 3, 80-97.	0.2	7
749	Production of Clean Fuel from Waste Biomass using Combined Dark and Photofermentation. IOSR Journal of Computer Engineering, 2012, 1, 39-47.	0.1	10
750	Analysis of photon-driven solar-to-hydrogen production methods in the Netherlands. Sustainable Energy Technologies and Assessments, 2021, 48, 101631.	1.7	12

#	ARTICLE	IF	CITATIONS
751	Yields from Glucose, Xylose, and Paper Sludge Hydrolysate During Hydrogen Production by the Extreme Thermophile <i>Caldicellulosiruptor saccharolyticus</i> . , 2004, , 497-508.		2
752	Growth CO ₂ Consumption, and H ₂ Production of <i>Anabaena Variabilis</i> ATCC 29413-U Under Different Irradiances and CO ₂ Concentrations. , 2006, , .		0
753	Sustainable Biological Hydrogen Production. , 2006, , 215-224.		0
754	Materials Requirements for Photobiological Hydrogen Production. , 2007, , 123-145.		0
755	The Hydrogen Economy. <i>Green Energy and Technology</i> , 2009, , 241-251.	0.4	1
756	Biohydrogen. <i>Green Energy and Technology</i> , 2009, , 163-219.	0.4	2
757	Development of a fermentation-based process for biomass conversion to hydrogen gas. <i>Zuckerindustrie</i> , 2010, , 218-221.	0.1	1
758	Biohydrogen Production From Agricultural Agrofood-Based Resources. , 2011, , 532-544.		0
759	Metabolic Flux Balance Analysis of the Primary Metabolism for Hydrogen Production in Purple Non-sulfur Bacteria. <i>International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB)</i> , 2011, , 159-162.	0.2	0
760	Future Perspectives for Hydrogen as Fuel in Transportation. , 2011, , 243-288.		0
761	Hydrogen hydrogen from Biomass hydrogen from biomass. , 2012, , 5116-5133.		0
762	Biohydrogen Production from Cellulosic Biomass. <i>RSC Green Chemistry</i> , 2012, , 256-275.	0.0	1
763	Hydrogen hydrogen from Biomass hydrogen from biomass. , 2013, , 1100-1117.		0
764	Process simulation of integrated biohydrogen production: hydrogen recovery by membrane separation. <i>Journal of Agricultural Informatics</i> , 2014, 5, .	0.2	1
765	Biohydrogen Production via Lignocellulose and Organic Waste Fermentation. <i>Biofuels and Biorefineries</i> , 2015, , 41-75.	0.5	2
766	Isolation and Screening of Hydrogen Producing Bacterial Strain from Sugarcane Bagasse Yard Soil. <i>International Journal of Science and Engineering Applications</i> , 2015, 5, 12-19.	0.1	0
767	High-Yield Production of Biohydrogen from Carbohydrates and Water Based on In Vitro Synthetic (Enzymatic) Pathways. <i>Biofuels and Biorefineries</i> , 2015, , 77-94.	0.5	2
768	Hydrogen Production. , 2015, , 1-35.		0

#	ARTICLE	IF	CITATIONS
769	AVALIAÇÃO DA IDADE E CONCENTRAÇÃO DA MICROALGA CHLAMYDOMONAS REINHARDTII POTENCIALMENTE UTILIZADAS NA PRODUÇÃO DE HIDROGÊNIO. , 0, , .		0
770	Biohydrogen production by Clostridium beijerinckii. WIT Transactions on State-of-the-art in Science and Engineering, 2015, , 37-46.	0.0	0
772	Electron Partitioning in Anoxic Phototrophic Bacteria. Advances in Photosynthesis and Respiration, 2016, , 679-700.	1.0	0
773	Hydrogen Production. , 2017, , 2995-3037.		1
774	4 Biogas and Biohydrogen Production by Anaerobic Digestion. , 2017, , 219-296.		0
776	Hydrogen Production from Algal Pathways. , 2018, , 1-28.		0
777	Marine Bioenergy Production. , 2019, , 297-344.		0
778	Biohydrogen production from microalgae for environmental sustainability. Chemosphere, 2022, 291, 132717.	4.2	81
779	Green processes and sustainable materials for renewable energy production via water splitting. , 2022, , 169-212.		4
780	Hydrogen and Methane Generation from Biowaste: Enhancement and Upgrading via Bioelectrochemical Systems. , 2020, , 83-130.		1
781	An overview of bioreactor configurations and operational strategies for dark fermentative biohydrogen production. , 2020, , 249-288.		10
783	New Insights into Controlling Homoacetogenesis in the Co-digestion of Coffee Waste: Effect of Operational Conditions and Characterization of Microbial Communities. Applied Biochemistry and Biotechnology, 2021, , 1.	1.4	2
784	Research and economic perspectives on an integrated biorefinery approach for the simultaneous production of polyhydroxyalkanoates and biohydrogen. International Journal of Biological Macromolecules, 2021, 193, 1937-1937.	3.6	3
785	The optimization and statistical analysis of fermentative hydrogen production using Taguchi method. International Journal of Chemical Reactor Engineering, 2020, 18, .	0.6	1
786	Photosynthetic microalgal microbial fuel cells and its future upscaling aspects. , 2022, , 363-384.		5
787	Microorganism-Assisted Biohydrogen Production and Bioreactors. Chemical Engineering and Technology, 2023, 46, 204-217.	0.9	2
788	Energy consumption, environmental performance, and techno-economic feasibility analysis of the biomass-to-hydrogen process with and without carbon capture and storage. Journal of Environmental Chemical Engineering, 2021, 9, 106752.	3.3	21
789	Sustainable energy generation from textile biowaste and its challenges: A comprehensive review. Renewable and Sustainable Energy Reviews, 2022, 157, 112051.	8.2	64

#	ARTICLE	IF	CITATIONS
790	Facile synthesis of self-supported intertwined columnar NiCoP as a high efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5974-5989.	3.8	17
791	Effect of thermophilic temperatures on hydrogen and ethanol production in anaerobic fluidized bed reactor from cassava wastewater. <i>Brazilian Journal of Chemical Engineering</i> , 2023, 40, 115-127.	0.7	4
792	Hydrogen production and carbon sequestration for biofuels and biomaterials. , 2022, , 231-252.		1
793	Bio-waste to hydrogen production technologies. , 2022, , 389-407.		2
794	Bioprocess intensification: A route to efficient and sustainable biocatalytic transformations for the future. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 172, 108793.	1.8	41
795	Hydrothermal gasification of biomass for hydrogen production: Advances, challenges, and prospects. , 2022, , 259-273.		0
796	Effect of Temperature, Light Cycle, Non-Aeration, Aeration and Aeration + Co2 Conditions on Lipid and Biomass Production of <i>Chlorella Vulgaris</i> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
798	Microbiological insights into anaerobic digestion for biogas, hydrogen or volatile fatty acids (VFAs): a review. <i>Bioengineered</i> , 2022, 13, 6521-6557.	1.4	107
799	Dimensionality-dependent MoS ₂ toward efficient photocatalytic hydrogen evolution: from synthesis to modifications in doping, surface and heterojunction engineering. <i>Materials Today Nano</i> , 2022, 18, 100191.	2.3	15
800	Effect of Green synthesized silver oxide nanoparticle on biological hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 19517-19525.	3.8	16
801	A sustainable integration of removing CO ₂ /NO and producing biomass with high content of lipid/protein by microalgae. <i>Journal of Energy Chemistry</i> , 2022, 73, 13-25.	7.1	11
805	Insights on Hydrogen Production by Thermochemical and Biological Techniques. <i>Advances in Science, Technology and Innovation</i> , 2022, , 321-331.	0.2	1
806	Membrane-based technologies for biohydrogen production: A review. <i>Journal of Environmental Management</i> , 2022, 316, 115239.	3.8	20
807	Hydrogen Production. , 2022, , 1855-1900.		1
808	Biohydrogen from microalgae. , 2022, , 505-545.		1
809	Promotion of biological H ₂ (Bio-H ₂) production by the nitrogen-fixing anaerobic microbial consortia using humin, a solid-phase humic substance. <i>Journal of Bioscience and Bioengineering</i> , 2022, 134, 144-152.	1.1	3
810	Dark fermentative biohydrogen production from confectionery wastewater in continuous-flow reactors. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 22348-22358.	3.8	6
811	Detailed analysis of gaseous components in soil gases around petroleum wells - An effective tool for evaluation of their integrity. <i>Applied Geochemistry</i> , 2022, 142, 105346.	1.4	2

#	ARTICLE	IF	CITATIONS
812	Molecular hydrogen in surface and subsurface natural gases: Abundance, origins and ideas for deliberate exploration. <i>Earth-Science Reviews</i> , 2022, 230, 104063.	4.0	23
813	Application of Algae for Hydrogen Generation and Utilization. Impact of Meat Consumption on Health and Environmental Sustainability, 2022, , 354-378.	0.4	3
814	Acceleration of lactate-utilizing pathway for enhancing biohydrogen production by magnetite supplementation in <i>Clostridium butyricum</i> . <i>Bioresource Technology</i> , 2022, 359, 127448.	4.8	15
815	A bibliometric analysis of the hydrogen production from dark fermentation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27397-27420.	3.8	40
816	Molecular hydrogen from organic sources in geological systems. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 105, 104704.	2.1	9
817	Biohydrogen production relationship to biomass composition, growth, temperature and nitrogenase isoform in the anaerobic photoheterotrophic diazotroph <i>Rhodospseudomonas palustris</i> . <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28399-28409.	3.8	3
818	SUSTAINABLE HYDROGEN PRODUCTION TECHNOLOGIES: BIOMASS BASED APPROACHES. , 0, , .		1
819	Wastewater-derived biohydrogen: Critical analysis of related enzymatic processes at the research and large scales. <i>Science of the Total Environment</i> , 2022, 851, 158112.	3.9	14
820	Hydrogen Production in Incubated Anaerobic Mesophilic Mixed Culture by Oleic Acid (OA) for Different Periods. <i>Lecture Notes in Civil Engineering</i> , 2023, , 351-360.	0.3	0
821	Energy and environmental assessment of hydrogen from biomass sources: Challenges and perspectives. <i>Biomass and Bioenergy</i> , 2022, 165, 106556.	2.9	29
822	A review on solar energy-based indirect water-splitting methods for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37742-37759.	3.8	34
823	Impaired glucose metabolism by deleting the operon of hydrogenase 2 in <i>Escherichia coli</i> . <i>Archives of Microbiology</i> , 2022, 204, .	1.0	2
824	[FeFe]-Hydrogenase mimics containing heavy p block elements. , 2022, , .		0
825	Biohydrogen Production Technologies: Past, Present, and Future Perspective. <i>Microorganisms for Sustainability</i> , 2022, , 185-205.	0.4	1
826	Thermophilic Water Gas Shift Reaction at High Carbon Monoxide and Hydrogen Partial Pressures in <i>Parageobacillus thermoglucosidasius</i> KP1013. <i>Fermentation</i> , 2022, 8, 596.	1.4	2
827	An overview on light assisted techniques for waste-derived hydrogen fuel towards aviation industry. <i>Fuel</i> , 2023, 334, 126645.	3.4	6
828	Pre-composting of municipal solid wastes as enhancer of bio-hydrogen production through dark fermentation process. <i>Fuel</i> , 2023, 333, 126575.	3.4	2
829	Valorization of lignocellulosic rice husk producing biosilica and biofuels—a review. <i>JPhys Energy</i> , 2023, 5, 012003.	2.3	4

#	ARTICLE	IF	CITATIONS
830	2H-2H clumping in molecular hydrogen method and preliminary results. <i>Chemical Geology</i> , 2023, 621, 121278.	1.4	2
831	BioH ₂ Production Using Microalgae: Highlights on Recent Advancements from a Bibliometric Analysis. <i>Water (Switzerland)</i> , 2023, 15, 185.	1.2	8
832	Biohydrogen production from <i>Euglena acus</i> microalgae available in Bangladesh. <i>MethodsX</i> , 2023, 10, 101976.	0.7	2
833	Dark fermentation and microalgae cultivation coupled systems: Outlook and challenges. <i>Science of the Total Environment</i> , 2023, 865, 161136.	3.9	11
834	Clean energy production by microorganisms: A sustainable approach. , 2023, , 1-14.		0
835	Introduction of hydrogen routines. , 2023, , 45-65.		1
836	Hydrogen production technologies: Conventional processes. , 2023, , 381-396.		1
839	Algal Biohydrogen Production: Opportunities and Challenges. <i>Clean Energy Production Technologies</i> , 2023, , 77-103.	0.3	1
840	Biocatalysts in Biohydrogen Production. <i>ACS Symposium Series</i> , 0, , 205-217.	0.5	0
841	Microalgal Feedstock for Biofuel Production: Recent Advances, Challenges, and Future Perspective. <i>Fermentation</i> , 2023, 9, 281.	1.4	10
842	Photobiohydrogen Production and Strategies for H ₂ Yield Improvements in Cyanobacteria. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2023, , .	0.6	0
844	Photobiological hydrogen production: Introduction and fundamental concept. , 2023, , 193-222.		1
849	Arranging of anaerobic digestion-Arduino computerized system to produce and measure of hydrogen biogas from recycling of sewage sludge. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
853	Hydrogen production methods based on the primary energy sources. , 2023, , 87-183.		0
856	Green Hydrogen Production: Energy and Exergy Analysis. , 2023, , .		0
859	Application of nanotechnology in hydrogen production from biomass: A critical review. <i>Advanced Composites and Hybrid Materials</i> , 2024, 7, .	9.9	2
861	Biohydrogen Production from Various Feedstocks: Biohydrogen Generation from Biomass. <i>Clean Energy Production Technologies</i> , 2024, , 81-99.	0.3	0
864	Sustainable biohydrogen production: technoeconomic analysis. , 2024, , 527-545.		0

#	ARTICLE	IF	CITATIONS
865	Phototrophic microorganisms as the future of green biotechnology. , 2024, , 181-205.		0