Richen Lin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/890915/publications.pdf

Version: 2024-02-01

170	7,842	36203	69108
papers	citations	51	77
		h-index	g-index

172	172	172	5575
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improvement in biohydrogen and volatile fatty acid production from seaweed through addition of conductive carbon materials depends on the properties of the conductive materials. Energy, 2022, 239, 122188.	4.5	27
2	Effects of carbon cloth on anaerobic digestion of high concentration organic wastewater under various mixing conditions. Journal of Hazardous Materials, 2022, 423, 127100.	6.5	49
3	Hydrothermal hydrolysis of algal biomass for biofuels production: A review. Bioresource Technology, 2022, 344, 126213.	4.8	24
4	The role of machine learning to boost the bioenergy and biofuels conversion. Bioresource Technology, 2022, 343, 126099.	4.8	76
5	Preparation of nano-biochar from conventional biorefineries for high-value applications. Renewable and Sustainable Energy Reviews, 2022, 157, 112057.	8.2	35
6	Feedstock pretreatment for enhanced anaerobic digestion of lignocellulosic residues for bioenergy production. , 2022, , 253-282.		2
7	Revealing the synergistic effects of cells, pigments, and light spectra on light transfer during microalgae growth: A comprehensive light attenuation model. Bioresource Technology, 2022, 348, 126777.	4.8	34
8	Optimisation and performance prediction of photosynthetic biogas upgrading using a bubble column. Chemical Engineering Journal, 2022, 437, 134988.	6.6	8
9	Photoenzymatic decarboxylation to produce renewable hydrocarbon fuels: A comparison between whole-cell and broken-cell biocatalysts. Energy Conversion and Management, 2022, 255, 115311.	4.4	13
10	Dual Metal Active Sites and an Enhanced Electric Field Boosting CO₂ Reduction to CH₄ in an Electromethanogenesis System. ACS Sustainable Chemistry and Engineering, 2022, 10, 2890-2902.	3.2	14
11	How Interfacial Properties Affect Adhesion: An Analysis from the Interactions between Microalgal Cells and Solid Substrates. Langmuir, 2022, 38, 3284-3296.	1.6	10
12	Enhancing Extracellular Electron Transfer of Geobacter sulfurreducens in Bioelectrochemical Systems Using N-Doped Fe₃O₄@Carbon Dots. ACS Sustainable Chemistry and Engineering, 2022, 10, 3935-3950.	3.2	16
13	A bio-inspired flexible squeezing reactor for efficient enzymatic hydrolysis of lignocellulosic biomass for bioenergy production. Renewable Energy, 2022, 191, 92-100.	4.3	7
14	A perspective on the combination of alkali pre-treatment with bioaugmentation to improve biogas production from lignocellulose biomass. Bioresource Technology, 2022, 351, 126950.	4.8	18
15	Co-production of hydrochar, levulinic acid and value-added chemicals by microwave-assisted hydrothermal carbonization of seaweed. Chemical Engineering Journal, 2022, 441, 135915.	6.6	24
16	Towards green whiskey production: Anaerobic digestion of distillery by-products and the effects of pretreatment. Journal of Cleaner Production, 2022, 357, 131844.	4.6	12
17	An assessment of how the properties of pyrochar and process thermodynamics impact pyrochar mediated microbial chain elongation in steering the production of medium-chain fatty acids towards n-caproate. Bioresource Technology, 2022, 358, 127294.	4.8	10
18	Efficient production of sugar via continuous enzymatic hydrolysis in a microreactor loaded with cellulase. Chemical Engineering Journal, 2022, 445, 136633.	6.6	19

#	Article	IF	Citations
19	A novel magnet-driven rotary mixing aerator for carbon dioxide fixation and microalgae cultivation: Focusing on bubble behavior and cultivation performance. Journal of Biotechnology, 2022, 352, 26-35.	1.9	10
20	Activated Carbon Facilitates Anaerobic Digestion of Furfural Wastewater: Effect of Direct Interspecies Electron Transfer. ACS Sustainable Chemistry and Engineering, 2022, 10, 8206-8215.	3.2	14
21	A comparison of digestate management options at a large anaerobic digestion plant. Journal of Environmental Management, 2022, 317, 115312.	3.8	3
22	Recent advances and challenges of inter-disciplinary biomass valorization by integrating hydrothermal and biological techniques. Renewable and Sustainable Energy Reviews, 2021, 135, 110370.	8.2	108
23	Production of advanced fuels through integration of biological, thermo-chemical and power to gas technologies in a circular cascading bio-based system. Renewable and Sustainable Energy Reviews, 2021, 135, 110371.	8.2	33
24	How can hydrothermal treatment impact the performance of continuous two-stage fermentation for hydrogen and methane co-generation?. International Journal of Hydrogen Energy, 2021, 46, 14045-14062.	3.8	12
25	Carbon cloth facilitates semi-continuous anaerobic digestion of organic wastewater rich in volatile fatty acids from dark fermentation. Environmental Pollution, 2021, 272, 116030.	3.7	37
26	Thermoresponsive Surfaces Grafted by Shrinkable Hydrogel Poly(N-isopropylacrylamide) for Controlling Microalgae Cells Adhesion during Biofilm Cultivation. Environmental Science & Technology, 2021, 55, 1178-1189.	4.6	19
27	Production of Bio-alkanes from Biomass and CO2. Trends in Biotechnology, 2021, 39, 370-380.	4.9	37
28	Design, Commissioning, and Performance Assessment of a Lab-Scale Bubble Column Reactor for Photosynthetic Biogas Upgrading with Spirulina platensis. Industrial & Engineering Chemistry Research, 2021, 60, 5688-5704.	1.8	8
29	A comparative evaluation of design factors on bubble column operation in photosynthetic biogas upgrading. Biofuel Research Journal, 2021, 8, 1351-1373.	7.2	12
30	Granular activated carbon supplementation enhances anaerobic digestion of lipid-rich wastewaters. Renewable Energy, 2021, 171, 958-970.	4.3	28
31	Kinetics of hydrolysis of microalgae biomass during hydrothermal pretreatment. Biomass and Bioenergy, 2021, 149, 106074.	2.9	10
32	Revealing the role of conductive materials on facilitating direct interspecies electron transfer in syntrophic methanogenesis: A thermodynamic analysis. Energy, 2021, 229, 120747.	4.5	12
33	Zeolitic imidazolate framework-derived porous carbon enhances methanogenesis by facilitating interspecies electron transfer: Understanding fluorimetric and electrochemical responses of multi-layered extracellular polymeric substances. Science of the Total Environment, 2021, 781, 146447.	3.9	10
34	Distillery decarbonisation and anaerobic digestion: balancing benefits and drawbacks using a compromise programming approach. Biofuel Research Journal, 2021, 8, 1417-1432.	7.2	10
35	Assessment of pretreatment and digestion temperature on anaerobic digestion of whiskey byproducts and microbial taxonomy. Energy Conversion and Management, 2021, 243, 114331.	4.4	14
36	Hydrolysis of disaccharides via carbon-based solid acids with binding and catalytic domains: Glycosidic bond fracture properties and reaction kinetics. Fuel, 2021, 300, 120978.	3.4	11

#	Article	IF	Citations
37	Emerging bioelectrochemical technologies for biogas production and upgrading in cascading circular bioenergy systems. IScience, 2021, 24, 102998.	1.9	16
38	A perspective on the efficacy of green gas production via integration of technologies in novel cascading circular bio-systems. Renewable and Sustainable Energy Reviews, 2021, 150, 111427.	8.2	16
39	Boosting photo-biochemical conversion and carbon dioxide bio-fixation of Chlorella vulgaris in an optimized photobioreactor with airfoil-shaped deflectors. Bioresource Technology, 2021, 337, 125355.	4.8	24
40	How can ethanol enhance direct interspecies electron transfer in anaerobic digestion?. Biotechnology Advances, 2021, 52, 107812.	6.0	45
41	Improved robustness of ex-situ biological methanation for electro-fuel production through the addition of graphene. Renewable and Sustainable Energy Reviews, 2021, 152, 111690.	8.2	11
42	What physicochemical properties of biochar facilitate interspecies electron transfer in anaerobic digestion: A case study of digestion of whiskey by-products. Fuel, 2021, 306, 121736.	3.4	39
43	Life cycle and economic assessments of biogas production from microalgae biomass with hydrothermal pretreatment via anaerobic digestion. Renewable Energy, 2020, 151, 70-78.	4.3	43
44	Low concentrations of furfural facilitate biohydrogen production in dark fermentation using Enterobacter aerogenes. Renewable Energy, 2020, 150, 23-30.	4.3	38
45	Improving biohydrogen and biomethane co-production via two-stage dark fermentation and anaerobic digestion of the pretreated seaweed Laminaria digitata. Journal of Cleaner Production, 2020, 251, 119666.	4.6	56
46	Biofuel production from wet microalgae biomass: Comparison of physicochemical properties and extraction performance. Energy, 2020, 212, 118581.	4.5	18
47	Graphene Addition to Digestion of Thin Stillage Can Alleviate Acidic Shock and Improve Biomethane Production. ACS Sustainable Chemistry and Engineering, 2020, 8, 13248-13260.	3.2	44
48	Using biogas to reduce natural gas consumption and greenhouse gas emissions at a large distillery. Applied Energy, 2020, 279, 115812.	5.1	42
49	Effects of Operational Parameters on Biofilm Formation of Mixed Bacteria for Hydrogen Fermentation. Sustainability, 2020, 12, 8863.	1.6	5
50	Improving gaseous biofuel yield from seaweed through a cascading circular bioenergy system integrating anaerobic digestion and pyrolysis. Renewable and Sustainable Energy Reviews, 2020, 128, 109895.	8.2	80
51	Effects of foam nickel supplementation on anaerobic digestion: Direct interspecies electron transfer. Journal of Hazardous Materials, 2020, 399, 122830.	6.5	48
52	Degradation and transformation of furfural derivatives from hydrothermal pre-treated algae and lignocellulosic biomass during hydrogen fermentation. Renewable and Sustainable Energy Reviews, 2020, 131, 109983.	8.2	21
53	A perspective on novel cascading algal biomethane biorefinery systems. Bioresource Technology, 2020, 304, 123027.	4.8	49
54	Analysis of the energy barrier between Chlorella vulgaris cells and their interfacial interactions with cationic starch under different pH and ionic strength. Bioresource Technology, 2020, 304, 123012.	4.8	12

#	Article	IF	Citations
55	A perspective on decarbonizing whiskey using renewable gaseous biofuel in a circular bioeconomy process. Journal of Cleaner Production, 2020, 255, 120211.	4.6	31
56	Optimization of liquid hot water pretreatment on Hybrid Pennisetum anaerobic digestion and its effect on energy efficiency. Energy Conversion and Management, 2020, 210, 112718.	4.4	30
57	Sustainable biohythane production from algal bloom biomass through two-stage fermentation: Impacts of the physicochemical characteristics and fermentation performance. International Journal of Hydrogen Energy, 2020, 45, 34461-34472.	3.8	17
58	Microwave assisted low-temperature hydrothermal treatment of solid anaerobic digestate for optimising hydrochar and energy recovery. Chemical Engineering Journal, 2020, 395, 124999.	6.6	31
59	Improving hydrogen and methane co-generation in cascading dark fermentation and anaerobic digestion: The effect of magnetite nanoparticles on microbial electron transfer and syntrophism. Chemical Engineering Journal, 2020, 397, 125394.	6.6	123
60	Application of bubble carrying to Chlorella vulgaris flocculation with branched cationic starch: An efficient and economical harvesting method for biofuel production. Energy Conversion and Management, 2020, 213, 112833.	4.4	9
61	Pyrolysis kinetics and reaction mechanism of the electrode materials during the spent LiCoO2 batteries recovery process. Journal of Hazardous Materials, 2020, 398, 122955.	6.5	108
62	Synergistic Treatment of Alkali Lignin via Fungal Coculture for Biofuel Production: Comparison of Physicochemical Properties and Adsorption of Enzymes Used As Catalysts. Frontiers in Energy Research, 2020, 8, .	1.2	11
63	Photo-bioreactor design for microalgae: A review from the aspect of CO2 transfer and conversion. Bioresource Technology, 2019, 292, 121947.	4.8	86
64	Influential Aspects in Waste Management Practices. , 2019, , 65-78.		11
65	Improving gaseous biofuel production from seaweed Saccharina latissima: The effect of hydrothermal pretreatment on energy efficiency. Energy Conversion and Management, 2019, 196, 1385-1394.	4.4	78
66	Exergy analyses of biogas production from microalgae biomass via anaerobic digestion. Bioresource Technology, 2019, 289, 121709.	4.8	39
67	Spirulina platensis based biorefinery for the production of value-added products for food and pharmaceutical applications. Bioresource Technology, 2019, 289, 121727.	4.8	38
68	How to optimise photosynthetic biogas upgrading: a perspective on system design and microalgae selection. Biotechnology Advances, 2019, 37, 107444.	6.0	63
69	Adsorption thermodynamic characteristics of Chlorella vulgaris with organic polymer adsorbent cationic starch: Effect of temperature on adsorption capacity and rate. Bioresource Technology, 2019, 293, 122056.	4.8	28
70	A rapid inoculation method for microalgae biofilm cultivation based on microalgae-microalgae co-flocculation and zeta-potential adjustment. Bioresource Technology, 2019, 278, 272-278.	4.8	42
71	Hydrothermal heating with sulphuric acid contributes to improved fermentative hydrogen and methane co-generation from Dianchi Lake algal bloom. Energy Conversion and Management, 2019, 192, 282-291.	4.4	23
72	Rheokinetics of microalgae slurry during hydrothermal pretreatment processes. Bioresource Technology, 2019, 289, 121650.	4.8	13

#	Article	IF	Citations
73	Laccase pretreatment of wheat straw: effects of the physicochemical characteristics and the kinetics of enzymatic hydrolysis. Biotechnology for Biofuels, 2019, 12, 159.	6.2	90
74	Life-cycle assessment of biohythane production via two-stage anaerobic fermentation from microalgae and food waste. Renewable and Sustainable Energy Reviews, 2019, 112, 395-410.	8.2	75
75	Hydrogen fermentation of organic wastewater with high ammonium concentration via electrodialysis system. Bioresource Technology, 2019, 288, 121560.	4.8	7
76	Can acid pre-treatment enhance biohydrogen and biomethane production from grass silage in single-stage and two-stage fermentation processes?. Energy Conversion and Management, 2019, 195, 738-747.	4.4	42
77	Inhibitory effects of furfural and vanillin on two-stage gaseous biofuel fermentation. Fuel, 2019, 252, 350-359.	3.4	10
78	Improving methane production from Pennisetum hybrid by monitoring plant height and ensiling pretreatment. Renewable Energy, 2019, 141, 57-63.	4.3	19
79	Improving fermentative hydrogen and methane production from an algal bloom through hydrothermal/steam acid pretreatment. International Journal of Hydrogen Energy, 2019, 44, 5812-5820.	3.8	60
80	Effects of pre-treatment and biological acidification on fermentative hydrogen and methane co-production. Energy Conversion and Management, 2019, 185, 431-441.	4.4	36
81	Biodegradable branched cationic starch with high C/N ratio for Chlorella vulgaris cells concentration: Regulating microalgae flocculation performance by pH. Bioresource Technology, 2019, 276, 133-139.	4.8	48
82	Enhanced dark hydrogen fermentation of Enterobacter aerogenes/HoxEFUYH with carbon cloth. International Journal of Hydrogen Energy, 2019, 44, 3560-3568.	3.8	28
83	A review on chemical mechanism of microalgae flocculation via polymers. Biotechnology Reports (Amsterdam, Netherlands), 2019, 21, e00302.	2.1	64
84	Hydrogen Production from Biological Sources. , 2019, , 833-863.		5
85	A critical review on anaerobic digestion of microalgae and macroalgae and co-digestion of biomass for enhanced methane generation. Bioresource Technology, 2018, 262, 319-332.	4.8	214
86	Hydrogen from Photo Fermentation. Green Energy and Technology, 2018, , 221-317.	0.4	27
87	Biomass and Bioenergy: Current State. Green Energy and Technology, 2018, , 3-37.	0.4	0
88	Enhancing microalgae biofilm formation and growth by fabricating microgrooves onto the substrate surface. Bioresource Technology, 2018, 261, 36-43.	4.8	51
89	Application of growth-phase based light-feeding strategies to simultaneously enhance Chlorella vulgaris growth and lipid accumulation. Bioresource Technology, 2018, 256, 421-430.	4.8	26
90	Inhibition of thermochemical treatment on biological hydrogen and methane co-production from algae-derived glucose/glycine. Energy Conversion and Management, 2018, 158, 201-209.	4.4	44

#	Article	IF	Citations
91	Assessment of continuous fermentative hydrogen and methane co-production using macro- and micro-algae with increasing organic loading rate. Energy, 2018, 151, 760-770.	4.5	32
92	The kinetics of the polyacrylic superabsorbent polymers swelling in microalgae suspension to concentrate cells density. Bioresource Technology, 2018, 249, 713-719.	4.8	27
93	Rheological properties of microalgae slurry for application in hydrothermal pretreatment systems. Bioresource Technology, 2018, 249, 599-604.	4.8	37
94	Physiological-phased kinetic characteristics of microalgae Chlorella vulgaris growth and lipid synthesis considering synergistic effects of light, carbon and nutrients. Bioresource Technology, 2018, 250, 583-590.	4.8	56
95	Boosting Nannochloropsis oculata growth and lipid accumulation in a lab-scale open raceway pond characterized by improved light distributions employing built-in planar waveguide modules. Bioresource Technology, 2018, 249, 880-889.	4.8	42
96	Graphene Facilitates Biomethane Production from Protein-Derived Glycine in Anaerobic Digestion. IScience, 2018, 10, 158-170.	1.9	59
97	Drag reduction and shear-induced cells migration behavior of microalgae slurry in tube flow. Bioresource Technology, 2018, 270, 38-45.	4.8	8
98	Optimizing culture conditions for heterotrophic-assisted photoautotrophic biofilm growth of Chlorella vulgaris to simultaneously improve microalgae biomass and lipid productivity. Bioresource Technology, 2018, 270, 80-87.	4.8	41
99	Improving production of volatile fatty acids and hydrogen from microalgae and rice residue: Effects of physicochemical characteristics and mix ratios. Applied Energy, 2018, 230, 1082-1092.	5.1	68
100	Enhancement of CO2 transfer and microalgae growth by perforated inverted arc trough internals in a flat-plate photobioreactor. Bioresource Technology, 2018, 269, 292-299.	4.8	40
101	Biomethane production from various segments of brown seaweed. Energy Conversion and Management, 2018, 174, 855-862.	4.4	30
102	Enhancing fermentative hydrogen production with the removal of volatile fatty acids by electrodialysis. Bioresource Technology, 2018, 263, 437-443.	4.8	16
103	Improved efficiency of anaerobic digestion through direct interspecies electron transfer at mesophilic and thermophilic temperature ranges. Chemical Engineering Journal, 2018, 350, 681-691.	6.6	168
104	Hydrothermal hydrolysis pretreatment of microalgae slurries in a continuous reactor under subcritical conditions for largeâ€“scale application. Bioresource Technology, 2018, 266, 306-314.	4.8	21
105	Use of surplus wind electricity in Ireland to produce compressed renewable gaseous transport fuel through biological power to gas systems. Renewable Energy, 2017, 105, 495-504.	4.3	56
106	Ionic-liquid pretreatment of cassava residues for the cogeneration of fermentative hydrogen and methane. Bioresource Technology, 2017, 228, 348-354.	4.8	31
107	Boosting biomethane yield and production rate with graphene: The potential of direct interspecies electron transfer in anaerobic digestion. Bioresource Technology, 2017, 239, 345-352.	4.8	272
108	Improving phosphorus removal efficiency and Chlorella vulgaris growth in high-phosphate MFC wastewater by frequent addition of small amounts of nitrate. International Journal of Hydrogen Energy, 2017, 42, 27749-27758.	3.8	21

#	Article	IF	Citations
109	A review on the biomass pretreatment and inhibitor removal methods as key-steps towards efficient macroalgae-based biohydrogen production. Bioresource Technology, 2017, 244, 1341-1348.	4.8	79
110	Unexpectedly low biohydrogen yields in co-fermentation of acid pretreated cassava residue and swine manure. Energy Conversion and Management, 2017, 151, 553-561.	4.4	28
111	Comparison of pre-treatments to reduce salinity and enhance biomethane yields of Laminaria digitata harvested in different seasons. Energy, 2017, 140, 546-551.	4.5	21
112	Impact of the accumulation and adhesion of released oxygen during Scenedesmus obliquus photosynthesis on biofilm formation and growth. Bioresource Technology, 2017, 244, 198-205.	4.8	23
113	Simultaneous enhancement of Chlorella vulgaris growth and lipid accumulation through the synergy effect between light and nitrate in a planar waveguide flat-plate photobioreactor. Bioresource Technology, 2017, 243, 528-538.	4.8	53
114	Potential of seaweed as a feedstock for renewable gaseous fuel production in Ireland. Renewable and Sustainable Energy Reviews, 2017, 68, 136-146.	8.2	84
115	Study of the performance of a thermophilic biological methanation system. Bioresource Technology, 2017, 225, 308-315.	4.8	69
116	Comparative study of single- and two-stage fermentation of the brown seaweed Laminaria digitata. Energy Conversion and Management, 2017, 148, 405-412.	4.4	32
117	Hydrogen Production from Biological Sources. , 2017, , 1-31.		0
118	Enhanced energy recovery from cassava ethanol wastewater through sequential dark hydrogen, photo hydrogen and methane fermentation combined with ammonium removal. Bioresource Technology, 2016, 214, 686-691.	4.8	39
119	Seasonal variation of chemical composition and biomethane production from the brown seaweed Ascophyllum nodosum. Bioresource Technology, 2016, 216, 219-226.	4.8	55
120	Physicochemical characterization of typical municipal solid wastes for fermentative hydrogen and methane co-production. Energy Conversion and Management, 2016, 117, 297-304.	4.4	51
121	Optimised biogas production from microalgae through co-digestion with carbon-rich co-substrates. Bioresource Technology, 2016, 214, 328-337.	4.8	83
122	A novel self-adaptive microalgae photobioreactor using anion exchange membranes for continuous supply of nutrients. Bioresource Technology, 2016, 214, 629-636.	4.8	20
123	Comparison of Chlorella vulgaris biomass productivity cultivated in biofilm and suspension from the aspect of light transmission and microalgae affinity to carbon dioxide. Bioresource Technology, 2016, 222, 367-373.	4.8	69
124	Fermentative biohydrogen and biomethane co-production from mixture of food waste and sewage sludge: Effects of physiochemical properties and mix ratios on fermentation performance. Applied Energy, 2016, 184, 1-8.	5.1	87
125	An annular photobioreactor with ion-exchange-membrane for non-touch microalgae cultivation with wastewater. Bioresource Technology, 2016, 219, 668-676.	4.8	46
126	Integrating planar waveguides doped with light scattering nanoparticles into a flat-plate photobioreactor to improve light distribution and microalgae growth. Bioresource Technology, 2016, 220, 215-224.	4.8	75

#	Article	IF	Citations
127	Improvement on light penetrability and microalgae biomass production by periodically pre-harvesting Chlorella vulgaris cells with culture medium recycling. Bioresource Technology, 2016, 216, 669-676.	4.8	35
128	Co-generation of biohydrogen and biomethane through two-stage batch co-fermentation of macro- and micro-algal biomass. Bioresource Technology, 2016, 218, 224-231.	4.8	88
129	Production of hydrogen, ethanol and volatile fatty acids through co-fermentation of macro- and micro-algae. Bioresource Technology, 2016, 205, 118-125.	4.8	167
130	Improving microalgal growth with reduced diameters of aeration bubbles and enhanced mass transfer of solution in an oscillating flow field. Bioresource Technology, 2016, 211, 429-434.	4.8	31
131	Fermentative bio-hydrogen production from galactose. Energy, 2016, 96, 346-354.	4.5	54
132	Enhanced dark hydrogen fermentation by addition of ferric oxide nanoparticles using Enterobacter aerogenes. Bioresource Technology, 2016, 207, 213-219.	4.8	162
133	The effect of seasonal variation on biomethane production from seaweed and on application as a gaseous transport biofuel. Bioresource Technology, 2016, 209, 213-219.	4.8	43
134	Innovation in biological production and upgrading of methane and hydrogen for use as gaseous transport biofuel. Biotechnology Advances, 2016, 34, 451-472.	6.0	178
135	Microalgal Cultivation in Treating Liquid Digestate from Biogas Systems. Trends in Biotechnology, 2016, 34, 264-275.	4.9	302
136	How do we optimize thirdâ€generation algal biofuels?. Biofuels, Bioproducts and Biorefining, 2015, 9, 358-367.	1.9	43
137	The upconversion and enhanced visible light photocatalytic activity of Er³⁺-doped tetragonal BiVO₄. RSC Advances, 2015, 5, 7324-7329.	1.7	22
138	Fermentative hydrogen and methane cogeneration from cassava residues: Effect of pretreatment on structural characterization and fermentation performance. Bioresource Technology, 2015, 179, 407-413.	4.8	57
139	Characterisation of water hyacinth with microwave-heated alkali pretreatment for enhanced enzymatic digestibility and hydrogen/methane fermentation. Bioresource Technology, 2015, 182, 1-7.	4.8	103
140	Enhancement of fermentative hydrogen production from hydrolyzed water hyacinth with activated carbon detoxification and bacteria domestication. International Journal of Hydrogen Energy, 2015, 40, 2545-2551.	3.8	46
141	What is the gross energy yield of third generation gaseous biofuel sourced from seaweed?. Energy, 2015, 81, 352-360.	4.5	100
142	Inhibitory effects of furan derivatives and phenolic compounds on dark hydrogen fermentation. Bioresource Technology, 2015, 196, 250-255.	4.8	89
143	Ensiling of seaweed for a seaweed biofuel industry. Bioresource Technology, 2015, 196, 301-313.	4.8	100
144	Fermentative hydrogen production using algal biomass as feedstock. Renewable and Sustainable Energy Reviews, 2015, 51, 209-230.	8.2	115

#	Article	IF	Citations
145	Production of hydrogen, ethanol and volatile fatty acids from the seaweed carbohydrate mannitol. Bioresource Technology, 2015, 193, 488-497.	4.8	54
146	Subcritical water hydrolysis of rice straw for reducing sugar production with focus on degradation by-products and kinetic analysis. Bioresource Technology, 2015, 186, 8-14.	4.8	52
147	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
148	Sodium borohydride removes aldehyde inhibitors for enhancing biohydrogen fermentation. Bioresource Technology, 2015, 197, 323-328.	4.8	20
149	Hydrogen production using amino acids obtained by protein degradation in waste biomass by combined dark- and photo-fermentation. Bioresource Technology, 2015, 179, 13-19.	4.8	59
150	Substrate consumption and hydrogen production via co-fermentation of monomers derived from carbohydrates and proteins in biomass wastes. Applied Energy, 2015, 139, 9-16.	5.1	68
151	Structure transition and multiferroic properties of Mn-doped BiFeO3 thin films. Journal of Materials Science: Materials in Electronics, 2014, 25, 723-729.	1.1	26
152	Cogeneration of hydrogen and methane from the pretreated biomass of algae bloom in Taihu Lake. International Journal of Hydrogen Energy, 2014, 39, 18793-18802.	3.8	50
153	Sequential Generation of Fermentative Hydrogen and Methane from Swine Manure with Physicochemical Characterization. Energy & Fuels, 2014, 28, 563-570.	2.5	16
154	Enhanced photocatalytic of N/F-doped-NaTaO3 photocatalyst synthesized by hydrothermal method. Journal of Materials Science: Materials in Electronics, 2014, 25, 3807-3815.	1.1	12
155	Enhancement of energy production efficiency from mixed biomass of Chlorella pyrenoidosa and cassava starch through combined hydrogen fermentation and methanogenesis. Applied Energy, 2014, 120, 23-30.	5.1	91
156	Effects of changes in microbial community on the fermentative production of hydrogen and soluble metabolites from Chlorella pyrenoidosa biomass in semi-continuous operation. Energy, 2014, 68, 982-988.	4.5	30
157	Improvement of the energy conversion efficiency of Chlorella pyrenoidosa biomass by a three-stage process comprising dark fermentation, photofermentation, and methanogenesis. Bioresource Technology, 2013, 146, 436-443.	4.8	73
158	Comparison in dark hydrogen fermentation followed by photo hydrogen fermentation and methanogenesis between protein and carbohydrate compositions in Nannochloropsis oceanica biomass. Bioresource Technology, 2013, 138, 204-213.	4.8	94
159	Promotion of H2 production by microwave-assisted treatment of water hyacinth with dilute H2SO4 through combined dark fermentation and photofermentation. Energy Conversion and Management, 2013, 73, 329-334.	4.4	58
160	Structural distortion and enhanced ferroelectric properties of Tb and Cr co-doped BiFeO3 thin films. Journal of Materials Science: Materials in Electronics, 2013, 24, 4445-4451.	1.1	3
161	Sequential generation of hydrogen and methane from glutamic acid through combined photo-fermentation and methanogenesis. Bioresource Technology, 2013, 131, 146-151.	4.8	35
162	Enhancing enzymatic saccharification of water hyacinth through microwave heating with dilute acid pretreatment for biomass energy utilization. Energy, 2013, 61, 158-166.	4.5	63

#	Article	IF	Citations
163	Combination of hydrogen fermentation and methanogenesis to enhance energy conversion efficiency from trehalose. Energy, 2013, 55, 631-637.	4.5	16
164	Combination of dark- and photo-fermentation to improve hydrogen production from Arthrospira platensis wet biomass with ammonium removal by zeolite. International Journal of Hydrogen Energy, 2012, 37, 13330-13337.	3.8	90
165	Microwave hydrothermal synthesis and photocatalytic properties of ZnWO4nanorods. Crystal Research and Technology, 2012, 47, 1279-1283.	0.6	9
166	Sequential generation of hydrogen and methane from xylose by two-stage anaerobic fermentation. International Journal of Hydrogen Energy, 2012, 37, 13323-13329.	3.8	26
167	Controllable Microwave Hydrothermal Synthesis of Bismuth Ferrites and Photocatalytic Characterization. Journal of the American Ceramic Society, 2012, 95, 280-289.	1.9	72
168	Comparison between heterofermentation and autofermentation in hydrogen production from Arthrospira (Spirulina) platensis wet biomass. International Journal of Hydrogen Energy, 2012, 37, 6536-6544.	3.8	51
169	Cogeneration of hydrogen and methane from Arthrospira maxima biomass with bacteria domestication and enzymatic hydrolysis. International Journal of Hydrogen Energy, 2011, 36, 1474-1481.	3.8	48
170	Correlation between Physicochemical Properties of Biochar and Improved Interspecies Electron Transfer in Anaerobic Digestion of Whiskey By-Products. SSRN Electronic Journal, 0, , .	0.4	0