Jerry D. Murphy

List of Publications by Year
in descending order

261	15,192	13087	26591
papers	citations	68 h-index	107 g-index

266	266	266	10594
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	A case study on integrated systems analysis for biomethane use. , 2022, , 231-242.		0
3	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
4	Hydrothermal hydrolysis of algal biomass for biofuels production: A review. Bioresource Technology, 2022, 344, 126213.	4.8	24
5	The role of machine learning to boost the bioenergy and biofuels conversion. Bioresource Technology, 2022, 343, 126099.	4.8	76
6	What is the energy balance of electrofuels produced through power-to-fuel integration with biogas facilities?. Renewable and Sustainable Energy Reviews, 2022, 155, 111886.	8.2	12
7	Wastewater in India: An untapped and under-tapped resource for nutrient recovery towards attaining a sustainable circular economy. Chemosphere, 2022, 291, 132753.	4.2	6
8	Preparation of nano-biochar from conventional biorefineries for high-value applications. Renewable and Sustainable Energy Reviews, 2022, 157, 112057.	8.2	35
9	Optimisation and performance prediction of photosynthetic biogas upgrading using a bubble column. Chemical Engineering Journal, 2022, 437, 134988.	6.6	8
10	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
11	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
12	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
13	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
14	Dedicated large-scale floating offshore wind to hydrogen: Assessing design variables in proposed typologies. Renewable and Sustainable Energy Reviews, 2022, 160, 112310.	8.2	48
15	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
16	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
17	Efficient production of sugar via continuous enzymatic hydrolysis in a microreactor loaded with cellulase. Chemical Engineering Journal, 2022, 445, 136633.	6.6	19
18	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

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19	A comparison of digestate management options at a large anaerobic digestion plant. Journal of Environmental Management, 2022, 317, 115312.	3.8	3
20	The effect of seasonal biomass availability and energy demand on the operation of an on-farm biomethane plant. Journal of Cleaner Production, 2022, 368, 133129.	4.6	6
21	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
22	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
23	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
24	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
25	Decarbonising ships, planes and trucks: An analysis of suitable low-carbon fuels for the maritime, aviation and haulage sectors. Advances in Applied Energy, 2021, 1, 100008.	6.6	200
26	Production of Bio-alkanes from Biomass and CO2. Trends in Biotechnology, 2021, 39, 370-380.	4.9	37
27	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. Science of the Total Environment, 2021, 765, 144429.	3.9	159
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	Process simulation and techno-economic assessment of vinasse-to-biogas in Cuba: Deterministic and uncertainty analysis. Chemical Engineering Research and Design, 2021, 169, 33-45.	2.7	14
30	A comparative evaluation of design factors on bubble column operation in photosynthetic biogas upgrading. Biofuel Research Journal, 2021, 8, 1351-1373.	7.2	12
31	Editorial: Innovative Technology and System Integration for Gaseous Biofuels Production. Frontiers in Energy Research, 2021, 9, .	1.2	0
32	Granular activated carbon supplementation enhances anaerobic digestion of lipid-rich wastewaters. Renewable Energy, 2021, 171, 958-970.	4.3	28
33	Kinetics of hydrolysis of microalgae biomass during hydrothermal pretreatment. Biomass and Bioenergy, 2021, 149, 106074.	2.9	10
34	Techno-economics and life-cycle assessment of biological and thermochemical treatment of bio-waste. Renewable and Sustainable Energy Reviews, 2021, 144, 110837.	8.2	77
35	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
36	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

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37	Distillery decarbonisation and anaerobic digestion: balancing benefits and drawbacks using a compromise programming approach. Biofuel Research Journal, 2021, 8, 1417-1432.	7.2	10
38	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
39	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
40	Emerging bioelectrochemical technologies for biogas production and upgrading in cascading circular bioenergy systems. IScience, 2021, 24, 102998.	1.9	16
41	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
42	Implications of European Union recast Renewable Energy Directive sustainability criteria for renewable heat and transport: Case study of willow biomethane in Ireland. Renewable and Sustainable Energy Reviews, 2021, 150, 111461.	8.2	15
43	How can ethanol enhance direct interspecies electron transfer in anaerobic digestion?. Biotechnology Advances, 2021, 52, 107812.	6.0	45
44	Alternative energy management strategies for large industry in non-gas-grid regions using on-farm biomethane. Applied Energy, 2021, 303, 117627.	5.1	6
45	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
46	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
47	The role of techno-economic implications and governmental policies in accelerating the promotion of biomethane technologies. , 2021, , 447-466.		0
48	Infant feeding and the energy transition: A comparison between decarbonising breastmilk substitutes with renewable gas and achieving the global nutrition target for breastfeeding. Journal of Cleaner Production, 2021, 324, 129280.	4.6	6
49	Low concentrations of furfural facilitate biohydrogen production in dark fermentation using Enterobacter aerogenes. Renewable Energy, 2020, 150, 23-30.	4.3	38
50	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
51	Anaerobic digestion performance and microbial community structures in biogas production from whiskey distillers organic by-products. Bioresource Technology Reports, 2020, 12, 100565.	1.5	10
52	Effect of rheokinetics on convective heat transfer of microalgae slurry in tube during hydrothermal conversion. International Journal of Heat and Mass Transfer, 2020, 163, 120407.	2.5	3
53	Biofuel production from wet microalgae biomass: Comparison of physicochemical properties and extraction performance. Energy, 2020, 212, 118581.	4.5	18
54	Can thermal energy recovery from digestate make renewable gas from household waste more cost effective? A case study for the Republic of Ireland. Journal of Cleaner Production, 2020, 261, 121198.	4.6	7

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55	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
56	Using biogas to reduce natural gas consumption and greenhouse gas emissions at a large distillery. Applied Energy, 2020, 279, 115812.	5.1	42
57	Effects of Operational Parameters on Biofilm Formation of Mixed Bacteria for Hydrogen Fermentation. Sustainability, 2020, 12, 8863.	1.6	5
58	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
59	Optimizing power-to-H2 participation in the Nord Pool electricity market: Effects of different bidding strategies on plant operation. Renewable Energy, 2020, 156, 820-836.	4.3	16
60	Effects of foam nickel supplementation on anaerobic digestion: Direct interspecies electron transfer. Journal of Hazardous Materials, 2020, 399, 122830.	6.5	48
61	Hydrogen from offshore wind: Investor perspective on the profitability of a hybrid system including for curtailment. Applied Energy, 2020, 265, 114732.	5.1	94
62	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
63	A perspective on novel cascading algal biomethane biorefinery systems. Bioresource Technology, 2020, 304, 123027.	4.8	49
64	Advancing anaerobic digestion through two-stage processes: Current developments and future trends. Renewable and Sustainable Energy Reviews, 2020, 123, 109746.	8.2	102
65	A perspective on decarbonizing whiskey using renewable gaseous biofuel in a circular bioeconomy process. Journal of Cleaner Production, 2020, 255, 120211.	4.6	31
66	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
67	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
68	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
69	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
70	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
71	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
72	Impacts of characteristics of grass silage and cattle slurry feedstocks on the cost of methane production. Biofuels, Bioproducts and Biorefining, 2019, 13, 129-139.	1.9	4

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73	The effect of electricity markets, and renewable electricity penetration, on the levelised cost of energy of an advanced electro-fuel system incorporating carbon capture and utilisation. Renewable Energy, 2019, 131, 364-371.	4.3	35
74	Influential Aspects in Waste Management Practices. , 2019, , 65-78.		11
75	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
76	How to optimise photosynthetic biogas upgrading: a perspective on system design and microalgae selection. Biotechnology Advances, 2019, 37, 107444.	6.0	63
77	Can green gas certificates allow for the accurate quantification of the energy supply and sustainability of biomethane from a range of sources for renewable heat and or transport?. Renewable and Sustainable Energy Reviews, 2019, 115, 109347.	8.2	27
78	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
79	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
80	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
81	Hydrogen fermentation of organic wastewater with high ammonium concentration via electrodialysis system. Bioresource Technology, 2019, 288, 121560.	4.8	7
82	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
83	A critical review of organic manure biorefinery models toward sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives. Renewable and Sustainable Energy Reviews, 2019, 111, 115-131.	8.2	177
84	Inhibitory effects of furfural and vanillin on two-stage gaseous biofuel fermentation. Fuel, 2019, 252, 350-359.	3.4	10
85	Are electrofuels a sustainable transport fuel? Analysis of the effect of controls on carbon, curtailment, and cost of hydrogen. Applied Energy, 2019, 247, 716-730.	5.1	30
86	Improving methane production from Pennisetum hybrid by monitoring plant height and ensiling pretreatment. Renewable Energy, 2019, 141, 57-63.	4.3	19
87	Feasibility study of an off-grid biomethane mobile solution for agri-waste. Applied Energy, 2019, 239, 471-481.	5.1	24
88	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
89	The combined role of policy and incentives in promoting cost efficient decarbonisation of energy: A case study for biomethane. Journal of Cleaner Production, 2019, 219, 278-290.	4.6	30
90	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

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91	Trace element supplementation is associated with increases in fermenting bacteria in biogas mono-digestion of grass silage. Renewable Energy, 2019, 138, 980-986.	4.3	56
92	Biological hydrogen methanation systems â€“ an overview of design and efficiency. Bioengineered, 2019, 10, 604-634.	1.4	74
93	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
94	Biological methanation: Strategies for in-situ and ex-situ upgrading in anaerobic digestion. Applied Energy, 2019, 235, 1061-1071.	5.1	115
95	Life-cycle assessment of biofuel production from microalgae via various bioenergy conversion systems. Energy, 2019, 171, 1033-1045.	4.5	114
96	Enhanced dark hydrogen fermentation of Enterobacter aerogenes/HoxEFUYH with carbon cloth. International Journal of Hydrogen Energy, 2019, 44, 3560-3568.	3.8	28
97	A lifecycle financial analysis model for offshore wind farms. Renewable and Sustainable Energy Reviews, 2019, 103, 370-383.	8.2	46
98	What is the level of incentivisation required for biomethane upgrading technologies with carbon capture and reuse?. Renewable Energy, 2019, 133, 951-963.	4.3	30
99	Hydrogen Production from Biological Sources. , 2019, , 833-863.		5
100	Modelling of a power-to-gas system to predict the levelised cost of energy of an advanced renewable gaseous transport fuel. Applied Energy, 2018, 215, 444-456.	5.1	85
101	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
102	The Relationship Between Bioreactor Design and Feedstock for Optimal Biogas Production. Green Energy and Technology, 2018, , 163-197.	0.4	3
103	Biomass and Bioenergy: Current State. Green Energy and Technology, 2018, , 3-37.	0.4	0
104	Antagonistic effects on biogas and methane output when co-digesting cattle and pig slurries with grass silage in in vitro batch anaerobic digestion. Biomass and Bioenergy, 2018, 109, 190-198.	2.9	22
105	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
106	Techno-economic analysis of biogas upgrading via amine scrubber, carbon capture and ex-situ methanation. Applied Energy, 2018, 212, 1191-1202.	5.1	140
107	Biofuel policy in India: A review of policy barriers in sustainable marketing of biofuel. Journal of Cleaner Production, 2018, 193, 734-747.	4.6	229
108	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

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109	Wastewater Algae to Value-Added Products. Energy, Environment, and Sustainability, 2018, , 365-393.	0.6	8
110	Graphene Facilitates Biomethane Production from Protein-Derived Glycine in Anaerobic Digestion. IScience, 2018, 10, 158-170.	1.9	59
111	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
112	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
113	Biomethane production from various segments of brown seaweed. Energy Conversion and Management, 2018, 174, 855-862.	4.4	30
114	Enhancing fermentative hydrogen production with the removal of volatile fatty acids by electrodialysis. Bioresource Technology, 2018, 263, 437-443.	4.8	16
115	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
116	Can power to methane systems be sustainable and can they improve the carbon intensity of renewable methane when used to upgrade biogas produced from grass and slurry?. Applied Energy, 2018, 228, 1046-1056.	5.1	40
117	Synergies from co-digesting grass or clover silages with cattle slurry in inÂvitro batch anaerobic digestion. Renewable Energy, 2018, 127, 474-480.	4.3	6
118	Advanced biohydrogen production using pretreated industrial waste: Outlook and prospects. Renewable and Sustainable Energy Reviews, 2018, 96, 306-324.	8.2	119
119	An economic and carbon analysis of biomethane production from food waste to be used as a transport fuel in Mexico. Journal of Cleaner Production, 2018, 196, 852-862.	4.6	44
120	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
121	Assessing the total theoretical, and financially viable, resource of biomethane for injection to a natural gas network in a region. Applied Energy, 2017, 188, 237-256.	5.1	54
122	Life cycle assessment of seaweed biomethane, generated from seaweed sourced from integrated multi-trophic aquaculture in temperate oceanic climates. Applied Energy, 2017, 196, 34-50.	5.1	61
123	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
124	Factors controlling headspace pressure in a manual manometric BMP method can be used to produce a methane output comparable to AMPTS. Bioresource Technology, 2017, 238, 633-642.	4.8	24
125	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
126	Sustainability assessment of large-scale storage technologies for surplus electricity using group multi-criteria decision analysis. Clean Technologies and Environmental Policy, 2017, 19, 689-703.	2.1	34

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127	Beyond carbon and energy: The challenge in setting guidelines for life cycle assessment of biofuel systems. Renewable Energy, 2017, 105, 436-448.	4.3	44
128	Role of trace elements in single and two-stage digestion of food waste at high organic loading rates. Energy, 2017, 121, 185-192.	4.5	68
129	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
130	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
131	Cascading biomethane energy systems for sustainable green gas production in a circular economy. Bioresource Technology, 2017, 243, 1207-1215.	4.8	64
132	The potential of power to gas to provide green gas utilising existing CO2 sources from industries, distilleries and wastewater treatment facilities. Renewable Energy, 2017, 114, 1090-1100.	4.3	27
133	An energy and greenhouse gas comparison of centralised biogas production with road haulage of pig slurry, and decentralised biogas production with biogas transportation in a low-pressure pipe network. Applied Energy, 2017, 208, 108-122.	5.1	19
134	Effect of solids loading on ethanol production: Experimental, economic and environmental analysis. Bioresource Technology, 2017, 244, 108-116.	4.8	39
135	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
136	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
137	Study of the performance of a thermophilic biological methanation system. Bioresource Technology, 2017, 225, 308-315.	4.8	69
138	How does technology pathway choice influence economic viability and environmental impacts of lignocellulosic biorefineries?. Biotechnology for Biofuels, 2017, 10, 268.	6.2	29
139	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
140	Hydrogen Production from Biological Sources. , 2017, , 1-31.		0
141	The Validation of a New GSTA Case in a Dynamic Coastal Environment Using Morphodynamic Modelling and Bathymetric Monitoring. Journal of Marine Science and Engineering, 2016, 4, 27.	1.2	4
142	Is smallâ€scale upgrading of landfill gas to biomethane for use as a cellulosic transport biofuel economically viable?. Biofuels, Bioproducts and Biorefining, 2016, 10, 139-149.	1.9	6
143	Long-term effects of phosphorus fertilizer on soil test phosphorus, phosphorus uptake and yield of perennial ryegrass. Journal of Agricultural Science, 2016, 154, 1068-1081.	0.6	21
144	Can slurry biogas systems be cost effective without subsidy in Mexico?. Renewable Energy, 2016, 95, 22-30.	4.3	22

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145	Seasonal variation of chemical composition and biomethane production from the brown seaweed Ascophyllum nodosum. Bioresource Technology, 2016, 216, 219-226.	4.8	55
146	Modelling a demand driven biogas system for production of electricity at peak demand and for production of biomethane at other times. Bioresource Technology, 2016, 216, 238-249.	4.8	31
147	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
148	Optimised biogas production from microalgae through co-digestion with carbon-rich co-substrates. Bioresource Technology, 2016, 214, 328-337.	4.8	83
149	Quantification and location of a renewable gas industry based on digestion of wastes in Ireland. Applied Energy, 2016, 175, 229-239.	5.1	24
150	Influence of temperature and reaction time on the conversion of polystyrene waste to pyrolysis liquid oil. Waste Management, 2016, 58, 250-259.	3.7	148
151	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
152	An annular photobioreactor with ion-exchange-membrane for non-touch microalgae cultivation with wastewater. Bioresource Technology, 2016, 219, 668-676.	4.8	46
153	Biogas production generated through continuous digestion of natural and cultivated seaweeds with dairy slurry. Bioresource Technology, 2016, 219, 228-238.	4.8	32
154	Assessment of the impact of incentives and of scale on the build order and location of biomethane facilities and the feedstock they utilise. Applied Energy, 2016, 182, 394-408.	5.1	30
155	Increased loading rates and specific methane yields facilitated by digesting grass silage at thermophilic rather than mesophilic temperatures. Bioresource Technology, 2016, 216, 486-493.	4.8	29
156	Low carbon pathways for light goods vehicles in Ireland. Research in Transportation Economics, 2016, 57, 53-62.	2.2	7
157	Impact of including land-use change emissions from biofuels on meeting GHG emissions reduction targets: the example of Ireland. Clean Technologies and Environmental Policy, 2016, 18, 1745-1758.	2.1	13
158	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
159	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
160	Fermentative bio-hydrogen production from galactose. Energy, 2016, 96, 346-354.	4.5	54
161	Enhanced dark hydrogen fermentation by addition of ferric oxide nanoparticles using Enterobacter aerogenes. Bioresource Technology, 2016, 207, 213-219.	4.8	162
162	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

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163	Assessment of increasing loading rate on two-stage digestion of food waste. Bioresource Technology, 2016, 202, 172-180.	4.8	93
164	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
165	Microalgal Cultivation in Treating Liquid Digestate from Biogas Systems. Trends in Biotechnology, 2016, 34, 264-275.	4.9	302
166	A detailed assessment of resource of biomethane from first, second and third generation substrates. Renewable Energy, 2016, 87, 656-665.	4.3	55
167	Investigating two-phase digestion of grass silage for demand-driven biogas applications: Effect of particle size and rumen fluid addition. Renewable Energy, 2016, 86, 1215-1223.	4.3	31
168	How do we optimize thirdâ€generation algal biofuels?. Biofuels, Bioproducts and Biorefining, 2015, 9, 358-367.	1.9	43
169	Investigation of effect of particle size and rumen fluid addition on specific methane yields of high lignocellulose grass silage. Bioresource Technology, 2015, 192, 266-271.	4.8	38
170	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
171	What is the gross energy yield of third generation gaseous biofuel sourced from seaweed?. Energy, 2015, 81, 352-360.	4.5	100
172	A perspective on the potential role of renewable gas in a smart energy island system. Renewable Energy, 2015, 78, 648-656.	4.3	108
173	Inhibitory effects of furan derivatives and phenolic compounds on dark hydrogen fermentation. Bioresource Technology, 2015, 196, 250-255.	4.8	89
174	Ensiling of seaweed for a seaweed biofuel industry. Bioresource Technology, 2015, 196, 301-313.	4.8	100
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