

David M Wall

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,373
citations

279701

23
h-index

454834

30
g-index

31
all docs

31
docs citations

31
times ranked

1478
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Feedstock pretreatment for enhanced anaerobic digestion of lignocellulosic residues for bioenergy production. , 2022, , 253-282. | | 2 |
| 2 | A comparison of digestate management options at a large anaerobic digestion plant. Journal of Environmental Management, 2022, 317, 115312. | 3.8 | 3 |
| 3 | 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 |
| 4 | Distillery decarbonisation and anaerobic digestion: balancing benefits and drawbacks using a compromise programming approach. Biofuel Research Journal, 2021, 8, 1417-1432. | 7.2 | 10 |
| 5 | Emerging bioelectrochemical technologies for biogas production and upgrading in cascading circular bioenergy systems. IScience, 2021, 24, 102998. | 1.9 | 16 |
| 6 | Alternative energy management strategies for large industry in non-gas-grid regions using on-farm biomethane. Applied Energy, 2021, 303, 117627. | 5.1 | 6 |
| 7 | 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 |
| 8 | 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 |
| 9 | Using biogas to reduce natural gas consumption and greenhouse gas emissions at a large distillery. Applied Energy, 2020, 279, 115812. | 5.1 | 42 |
| 10 | 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 |
| 11 | 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 |
| 12 | Biological hydrogen methanation systems – an overview of design and efficiency. Bioengineered, 2019, 10, 604-634. | 1.4 | 74 |
| 13 | 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 |
| 14 | Techno-economic analysis of biogas upgrading via amine scrubber, carbon capture and ex-situ methanation. Applied Energy, 2018, 212, 1191-1202. | 5.1 | 140 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Cascading biomethane energy systems for sustainable green gas production in a circular economy. <i>Bioresource Technology</i> , 2017, 243, 1207-1215. | 4.8 | 64 |
| 20 | Optimised biogas production from microalgae through co-digestion with carbon-rich co-substrates. <i>Bioresource Technology</i> , 2016, 214, 328-337. | 4.8 | 83 |
| 21 | Quantification and location of a renewable gas industry based on digestion of wastes in Ireland. <i>Applied Energy</i> , 2016, 175, 229-239. | 5.1 | 24 |
| 22 | Biogas production generated through continuous digestion of natural and cultivated seaweeds with dairy slurry. <i>Bioresource Technology</i> , 2016, 219, 228-238. | 4.8 | 32 |
| 23 | Assessment of the impact of incentives and of scale on the build order and location of biomethane facilities and the feedstock they utilise. <i>Applied Energy</i> , 2016, 182, 394-408. | 5.1 | 30 |
| 24 | A detailed assessment of resource of biomethane from first, second and third generation substrates. <i>Renewable Energy</i> , 2016, 87, 656-665. | 4.3 | 55 |
| 25 | What is the gross energy yield of third generation gaseous biofuel sourced from seaweed?. <i>Energy</i> , 2015, 81, 352-360. | 4.5 | 100 |
| 26 | Methanosarcina Play an Important Role in Anaerobic Co-Digestion of the Seaweed <i>Ulva lactuca</i> : Taxonomy and Predicted Metabolism of Functional Microbial Communities. <i>PLoS ONE</i> , 2015, 10, e0142603. | 1.1 | 33 |
| 27 | Investigation of the optimal percentage of green seaweed that may be co-digested with dairy slurry to produce gaseous biofuel. <i>Bioresource Technology</i> , 2014, 170, 436-444. | 4.8 | 52 |
| 28 | Optimisation of digester performance with increasing organic loading rate for mono- and co-digestion of grass silage and dairy slurry. <i>Bioresource Technology</i> , 2014, 173, 422-428. | 4.8 | 51 |
| 29 | The effect of trace element addition to mono-digestion of grass silage at high organic loading rates. <i>Bioresource Technology</i> , 2014, 172, 349-355. | 4.8 | 51 |
| 30 | The potential for biomethane from grass and slurry to satisfy renewable energy targets. <i>Bioresource Technology</i> , 2013, 149, 425-431. | 4.8 | 87 |
| 31 | Reconstitution of dewatered food processing residuals with manure to increase energy production from anaerobic digestion. <i>Biomass and Bioenergy</i> , 2012, 46, 429-434. | 2.9 | 2 |