William P Clarke

List of Publications by Year
in descending order

54 papers	2,033 citations	394421 19 h-index	243625 44 g-index
54 all docs	54 docs citations	54 times ranked	2563 citing authors

#	Article	IF	Citations
1	Methane as a Resource: Can the Methanotrophs Add Value?. Environmental Science & Technology, 2015, 49, 4001-4018.	10.0	374
2	Kinetics and dynamic modelling of batch anaerobic digestion of municipal solid waste in a stirred reactor. Waste Management, 2007, 27, 595-603.	7.4	178
3	The anaerobic degradability of thermoplastic starch: Polyvinyl alcohol blends: Potential biodegradable food packaging materials. Bioresource Technology, 2009, 100, 1705-1710.	9.6	115
4	Identification, Detection, and Spatial Resolution of Clostridium Populations Responsible for Cellulose Degradation in a Methanogenic Landfill Leachate Bioreactor. Applied and Environmental Microbiology, 2004, 70, 2414-2419.	3.1	113
5	Anaerobic digestion of harvested aquatic weeds: water hyacinth (Eichhornia crassipes), cabomba (Cabomba Caroliniana) and salvinia (Salvinia molesta). Ecological Engineering, 2010, 36, 1459-1468.	3.6	98
6	Removal of sulfate from high-strength wastewater by crystallisation. Water Research, 2009, 43, 762-772.	11.3	92
7	Organic waste biorefineries: Looking towards implementation. Waste Management, 2020, 114, 274-286.	7.4	91
8	Composting of waste algae: A review. Waste Management, 2014, 34, 1148-1155.	7.4	89
9	Deterministic mechanisms define the long-term anaerobic digestion microbiome and its functionality regardless of the initial microbial community. Water Research, 2018, 141, 366-376.	11.3	82
10	Effect of recirculated leachate volume on MSW degradation. Waste Management and Research, 1998, 16, 564-573.	3.9	80
11	Structure of a cellulose degrading bacterial community during anaerobic digestion. Biotechnology and Bioengineering, 2005, 92, 871-878.	3.3	75
12	Fluctuation of dissolved heavy metal concentrations in the leachate from anaerobic digestion of municipal solid waste in commercial scale landfill bioreactors: The effect of pH and associated mechanisms. Journal of Hazardous Materials, 2015, 299, 577-583.	12.4	71
13	Concurrent microscopic observations and activity measurements of cellulose hydrolyzing and methanogenic populations during the batch anaerobic digestion of crystalline cellulose. Biotechnology and Bioengineering, 2005, 91, 369-378.	3.3	70
14	Digestion of waste bananas to generate energy in Australia. Waste Management, 2008, 28, 527-533.	7.4	57
15	Effect of biomass concentration and inoculum source on the rate of anaerobic cellulose solubilization. Bioresource Technology, 2009, 100, 5219-5225.	9.6	41
16	Cellulolytic activity in leachate during leach-bed anaerobic digestion of municipal solid waste. Bioresource Technology, 2001, 80, 205-210.	9.6	33
17	The uptake of anaerobic digestion for the organic fraction of municipal solid waste â€“ Push versus pull factors. Bioresource Technology, 2018, 249, 1040-1043.	9.6	32
18	Comparison of cellulose solubilisation rates in rumen and landfill leachate inoculated reactors. Bioresource Technology, 2006, 97, 2356-2363.	9.6	26

#	Article	IF	Citations
19	Cost-benefit analysis of introducing technology to rapidly degrade municipal solid waste. Waste Management and Research, 2000, 18, 510-524.	3.9	25
20	Transition of microbial communities and degradation pathways in anaerobic digestion at decreasing retention time. New Biotechnology, 2021, 60, 52-61.	4.4	22
21	A dynamic mathematical model for sequential leach bed anaerobic digestion of organic fraction of municipal solid waste. Biochemical Engineering Journal, 2003, 13, 21-33.	3.6	20
22	Cellulose hydrolysis by a methanogenic culture enriched from landfill waste in a semi-continuous reactor. Bioresource Technology, 2009, 100, 1268-1273.	9.6	18
23	Cycling of iodine by microalgae: Iodine uptake and release by a microalgae biofilm in a groundwater holding pond. Ecological Engineering, 2016, 94, 286-294.	3.6	18
24	Anaerobic digestion for the treatment of solid organic waste: whatâ€™s hot and whatâ€™s not. Waste Management, 2010, 30, 1761-1762.	7.4	17
25	Measurement and quantification of sessile and planktonic microbial populations during the anaerobic digestion of cellulose. Water Science and Technology, 2008, 57, 465-469.	2.5	16
26	A survey of the relative abundance of specific groups of cellulose degrading bacteria in anaerobic environments using fluorescencein situhybridization. Journal of Applied Microbiology, 2007, 103, 1332-1343.	3.1	14
27	Experimental and theoretical investigation of diffusion processes in a membrane anaerobic reactor for bio-hydrogen production. International Journal of Hydrogen Energy, 2010, 35, 5301-5311.	7.1	14
28	Rapid digestion of shredded MSW by sequentially flooding and draining small landfill cells. Waste Management, 2016, 55, 12-21.	7.4	14
29	Methodology to determine the extent of anaerobic digestion, composting and CH4 oxidation in a landfill environment. Waste Management, 2018, 76, 364-373.	7.4	14
30	Quantification of cellulase activity using cellulose-azure. Talanta, 2006, 69, 68-72.	5.5	12
31	Bottom ash from smouldered digestate and coconut coir as an alkalinity supplement for the anaerobic digestion of fruit waste. Chemosphere, 2022, 296, 134049.	8.2	12
32	Evaluation by respirometry of the loading capacity of a high rate vermicompost bed for treating sewage sludge. Bioresource Technology, 2007, 98, 2611-2618.	9.6	11
33	Fate of pathogen indicators in a domestic blend of food waste and wastewater through a two-stage anaerobic digestion system. Water Science and Technology, 2013, 67, 366-373.	2.5	11
34	Pilot scale evaluation of a model to distinguish the rates of simultaneous anaerobic digestion, composting and methane oxidation in static waste beds. Waste Management, 2018, 71, 156-163.	7.4	9
35	Cost-benefit analysis of introducing technology to rapidly degrade municipal solid waste. Waste Management and Research, 2000, 18, 510-524.	3.9	8
36	A mass balance model to estimate the rate of composting, methane oxidation and anaerobic digestion in soil covers and shallow waste layers. Waste Management, 2017, 63, 196-202.	7.4	8

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37	Sources of Hydrogen Sulfide in Groundwater on Reclaimed Land. Journal of Environmental Engineering, ASCE, 2005, 131, 471-477.	1.4	7
38	Changes in glucose fermentation pathways by an enriched bacterial culture in response to regulated dissolved H₂ concentrations. Biotechnology and Bioengineering, 2015, 112, 1177-1186.	3.3	7
39	Effect of biomass concentration on methane oxidation activity using mature compost and graphite granules as substrata. Waste Management, 2016, 56, 290-297.	7.4	6
40	The use of food waste as a carbon source for on-site treatment of nutrient-rich blackwater from an office block. Environmental Technology (United Kingdom), 2016, 37, 2368-2378.	2.2	6
41	Methanotrophs: Methane Mitigation, Denitrification and Bioremediation. , 2017, , 19-40.		5
42	Stabilisation of microalgae: Iodine mobilisation under aerobic and anaerobic conditions. Bioresource Technology, 2015, 193, 219-226.	9.6	4
43	Critical analysis of hydrogen production from mixed culture fermentation under thermophilic condition (60ÂÂ°C). Applied Microbiology and Biotechnology, 2016, 100, 5165-5176.	3.6	4
44	Mathematical Modeling of Batch, Single Stage, Leach Bed Anaerobic Digestion of Organic Fraction of Municipal Solid Waste. Energy Systems, 2009, , 233-275.	0.5	3
45	Preliminary Determination of Pollutants Plume in Groundwater at Hazardous Solid Waste Disposal Site by Employing CPT and Rig. Environmental Technology (United Kingdom), 2000, 21, 17-30.	2.2	2
46	Characterizing The Physical And Chemical Properties of a Vermicompost Filter Bed. Compost Science and Utilization, 2004, 12, 383-391.	1.2	2
47	Soluble organic compounds in oil shale sour water are degradable only after being adsorbed to combusted oil shale. Fuel, 2014, 133, 270-275.	6.4	2
48	Established full-scale applications for energy recovery from water: anaerobic digestion. , 2022, , 99-139.		2
49	Simulation of salt migration in an oil shale dump subject to natural rainfall. Fuel, 1994, 73, 1617-1623.	6.4	1
50	Influence of inoculum selection on the utilisation of volatile fatty acid and glucose in sulfate reducing reactors. Environmental Technology (United Kingdom), 2020, , 1-12.	2.2	1
51	Drivers of Anaerobic Methanogenesis in Sub-Tropical Reservoir Sediments. Frontiers in Environmental Science, 2022, 10, .	3.3	1
52	Simulation of leachate quality from Rundle spent shale. Fuel, 1990, 69, 1095-1098.	6.4	0
53	The pursuit of fundamental research in waste management. Waste Management, 2009, 29, 1791-1792.	7.4	0
54	Effect of initial biomass on cellulose hydrolysis by leachate communities. International Journal of Environment and Waste Management, 2009, 3, 205.	0.3	0