Burak Demirel

List of Publications by Year
in descending order

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27 papers	3,787 citations	361413 20 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	4292 citing authors

#	Article	IF	Citations
1	Ammonia inhibition in anaerobic digestion: A review. Process Biochemistry, 2013, 48, 901-911.	3.7	973
2	The roles of acetotrophic and hydrogenotrophic methanogens during anaerobic conversion of biomass to methane: a review. Reviews in Environmental Science and Biotechnology, 2008, 7, 173-190.	8.1	888
3	Anaerobic treatment of dairy wastewaters: a review. Process Biochemistry, 2005, 40, 2583-2595.	3.7	418
4	Trace element requirements of agricultural biogas digesters during biological conversion of renewable biomass to methane. Biomass and Bioenergy, 2011, 35, 992-998.	5.7	378
5	Two-phase anaerobic digestion processes: a review. Journal of Chemical Technology and Biotechnology, 2002, 77, 743-755.	3.2	315
6	Methods of ammonia removal in anaerobic digestion: a review. Water Science and Technology, 2017, 76, 1925-1938.	2.5	107
7	Production of methane from sugar beet silage without manure addition by a single-stage anaerobic digestion process. Biomass and Bioenergy, 2008, 32, 203-209.	5.7	97
8	Anaerobic acidogenesis of dairy wastewater: the effects of variations in hydraulic retention time with no pH control. Journal of Chemical Technology and Biotechnology, 2004, 79, 755-760.	3.2	79
9	Production of Methane and Hydrogen from Biomass through Conventional and High-Rate Anaerobic Digestion Processes. Critical Reviews in Environmental Science and Technology, 2010, 40, 116-146.	12.8	69
10	Determination of biogas generation potential as a renewable energy source from supermarket wastes. Waste Management, 2014, 34, 134-140.	7.4	49
11	Evaluation of heavy metal content in digestate from batch anaerobic co-digestion of sunflower hulls and poultry manure. Journal of Material Cycles and Waste Management, 2013, 15, 242-246.	3.0	47
12	The impact of Ni, Co and Mo supplementation on methane yield from anaerobic mono-digestion of maize silage. Environmental Technology (United Kingdom), 2015, 36, 1556-1562.	2.2	44
13	Bio-methanization of energy crops through mono-digestion for continuous production of renewable biogas. Renewable Energy, 2009, 34, 2940-2945.	8.9	42
14	Changes in microbial ecology in an anaerobic reactor. Bioresource Technology, 2006, 97, 1201-1208.	9.6	40
15	Application of a fuzzy logic control system for continuous anaerobic digestion of low buffered, acidic energy crops as monoâ€substrate. Biotechnology and Bioengineering, 2009, 102, 736-748.	3.3	39
16	Long term fermentation studies about the nutritional requirements for biogasification of fodder beet silage as mono-substrate. Biomass and Bioenergy, 2009, 33, 873-881.	5.7	38
17	Major Pathway of Methane Formation From Energy Crops in Agricultural Biogas Digesters. Critical Reviews in Environmental Science and Technology, 2014, 44, 199-222.	12.8	36
18	The impacts of engineered nanomaterials (ENMs) on anaerobic digestion processes. Process Biochemistry, 2016, 51, 308-313.	3.7	36

#	Article	IF	Citations
19	Recovery of methane from tannery sludge: the effect of inoculum to substrate ratio and solids content. Journal of Material Cycles and Waste Management, 2015, 17, 808-815.	3.0	22
20	Microbial Community Dynamics of a Continuous Mesophilic Anaerobic Biogas Digester Fed with Sugar Beet Silage. Engineering in Life Sciences, 2008, 8, 390-398.	3.6	21
21	Performance and behaviour of the microbial community of an anaerobic biogas digester using sugar beet silage as mono-substrate. Biosystems Engineering, 2009, 102, 444-452.	4.3	12
22	The Effect of Short-Term Exposure of Engineered Nanoparticles on Methane Production During Mesophilic Anaerobic Digestion of Primary Sludge. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	11
23	Recovery of biogas as a source of renewable energy from ice-cream production residues and wastewater. Environmental Technology (United Kingdom), 2013, 34, 2099-2104.	2.2	8
24	Linking nano-ZnO contamination to microbial community profiling in sanitary landfill simulations. Environmental Science and Pollution Research, 2019, 26, 13580-13591.	5.3	5
25	Laboratory investigations on continuous bio-methanization of energy crops as mono-substrate without supplementation. Biomass and Bioenergy, 2009, 33, 988-993.	5.7	4
26	Impact of food waste fraction in municipal solid waste on sorption of heavy metals. Waste Management and Research, 2010, 28, 936-943.	3.9	4
27	Contaminant removal. Journal of Hazardous Materials, 2013, 263, 267.	12.4	0