Cigdem Eskicioglu

List of Publications by Year in descending order

43 papers	2,846 citations	270111 25 h-index	286692 43 g-index
44 all docs	44 docs citations	44 times ranked	2969 citing authors

#	Article	IF	Citations
1	Laboratory and field scale biodegradability assessment of biocomposite cellphone cases for end-of-life management. Waste Management, 2022, 138, 148-157.	3.7	4
2	Incorporating hydrothermal liquefaction into wastewater treatment â€“ Part I: Process optimization for energy recovery and evaluation of product distribution. Chemical Engineering Journal, 2022, 449, 137838.	6.6	12
3	Comparative response of thermophilic and mesophilic sludge digesters to zinc oxide nanoparticles. Environmental Science and Pollution Research, 2021, 28, 24521-24534.	2.7	3
4	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. Bioresource Technology, 2021, 322, 124470.	4.8	42
5	A review on key design and operational parameters to optimize and develop hydrothermal liquefaction of biomass for biorefinery applications. Green Chemistry, 2021, 23, 1404-1446.	4.6	117
6	Hydrochar derived from municipal sludge through hydrothermal processing: A critical review on its formation, characterization, and valorization. Water Research, 2021, 199, 117186.	5.3	106
7	Phosphorus recovery from municipal sludge-derived ash and hydrochar through wet-chemical technology: A review towards sustainable waste management. Chemical Engineering Journal, 2021, 417, 129300.	6.6	71
8	Examination of single-stage anaerobic and anoxic/aerobic and dual-stage anaerobic-anoxic/aerobic digestion to remove pharmaceuticals from municipal biosolids. Science of the Total Environment, 2021, 791, 148237.	3.9	3
9	Enhancement of lignocellulosic biomass anaerobic digestion by optimized mild alkaline hydrogen peroxide pretreatment for biorefinery applications. Journal of Environmental Management, 2021, 298, 113539.	3.8	11
10	Biochar amendment rapidly shifts microbial community structure with enhanced thermophilic digestion activity. Bioresource Technology, 2021, 341, 125864.	4.8	13
11	A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes. Sustainability, 2021, 13, 11515.	1.6	17
12	Biogas Production from Organic Waste: Recent Progress and Perspectives. Waste and Biomass Valorization, 2020, 11, 1019-1040.	1.8	141
13	Effect of biochar and wood ash amendment on biochemical methane production of wastewater sludge from a temperature phase anaerobic digestion process. Bioresource Technology, 2020, 297, 122440.	4.8	42
14	Occurrence and fate of antimicrobial triclocarban and its transformation products in municipal sludge during advanced anaerobic digestion using microwave pretreatment. Science of the Total Environment, 2020, 705, 135862.	3.9	15
15	A Review on the Fate of Legacy and Alternative Antimicrobials and Their Metabolites during Wastewater and Sludge Treatment. International Journal of Molecular Sciences, 2020, 21, 9241.	1.8	18
16	Comparison of anaerobic, cycling aerobic/anoxic, and sequential anaerobic/aerobic/anoxic digestion to remove triclosan and triclosan metabolites from municipal biosolids. Science of the Total Environment, 2020, 745, 140953.	3.9	11
17	Occurrence of the Persistent Antimicrobial Triclosan in Microwave Pretreated and Anaerobically Digested Municipal Sludges under Various Process Conditions. Molecules, 2020, 25, 310.	1.7	9
18	Comparative Analysis of Bacterial and Archaeal Community Structure in Microwave Pretreated Thermophilic and Mesophilic Anaerobic Digesters Utilizing Mixed Sludge under Organic Overloading. Water (Switzerland), 2020, 12, 887.	1.2	17

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19	Mitigation of recalcitrant nutrients and organic pollutants from small- to medium-scale biological nutrient removal plant sludge by digester optimization. Waste Management, 2020, 106, 132-144.	3.7	5
20	Effect of dewatered sludge microwave pretreatment temperature and duration on net energy generation and biosolids quality from anaerobic digestion. Energy, 2019, 168, 782-795.	4.5	29
21	Recent developments on thermal municipal sludge pretreatment technologies for enhanced anaerobic digestion. Renewable and Sustainable Energy Reviews, 2019, 110, 423-443.	8.2	156
22	Approaches and processes for ammonia removal from side-streams of municipal effluent treatment plants. Bioresource Technology, 2018, 268, 797-810.	4.8	53
23	Influences of low-energy input microwave and ultrasonic pretreatments on single-stage and temperature-phased anaerobic digestion (TPAD) of municipal wastewater sludge. Energy, 2017, 123, 271-282.	4.5	44
24	Assessment of hydrothermal pretreatment of various lignocellulosic biomass with CO 2 catalyst for enhanced methane and hydrogen production. Water Research, 2017, 120, 32-42.	5.3	79
25	Assessing iron and aluminum-based coagulants for odour and pathogen reductions in sludge digesters and enhanced digestate dewaterability. Science of the Total Environment, 2017, 598, 881-888.	3.9	40
26	Anaerobic co-digestion of microalgal biomass and wheat straw with and without thermo-alkaline pretreatment. Bioresource Technology, 2017, 237, 89-98.	4.8	76
27	AN EXPERIMENTAL 13.56 MHZ RADIO FREQUENCY HEATING SYSTEM FOR EFFICIENT THERMAL PRETREATMENT OF WASTEWATER SLUDGE. Progress in Electromagnetics Research B, 2017, 79, 83-101.	0.7	12
28	Assessment of microbial viability in municipal sludge following ultrasound and microwave pretreatments and resulting impacts on the efficiency of anaerobic sludge digestion. Applied Microbiology and Biotechnology, 2016, 100, 2855-2868.	1.7	23
29	Effects of metal salt addition on odor and process stability during the anaerobic digestion of municipal waste sludge. Waste Management, 2015, 46, 449-458.	3.7	21
30	High pressure homogenization and two-phased anaerobic digestion for enhanced biogas conversion from municipal waste sludge. Water Research, 2014, 66, 430-446.	5.3	72
31	Conductive heating and microwave hydrolysis under identical heating profiles for advanced anaerobic digestion of municipal sludge. Water Research, 2013, 47, 5040-5051.	5.3	50
32	An overview of construction and demolition waste management in Canada: a lifecycle analysis approach to sustainability. Clean Technologies and Environmental Policy, 2013, 15, 81-91.	2.1	373
33	Empirical modeling of the effects of emerging pretreatment methods on anaerobic digestion of pulp mill biosolids. Biochemical Engineering Journal, 2012, 68, 167-177.	1.8	5
34	PERMITTIVITY OF WASTE-ACTIVATED SLUDGE BY AN OPEN-ENDED COAXIAL LINE. Progress in Electromagnetics Research Letters, 2012, 29, 139-149.	0.4	18
35	Microwave, ultrasonic and chemo-mechanical pretreatments for enhancing methane potential of pulp mill wastewater treatment sludge. Bioresource Technology, 2011, 102, 7815-7826.	4.8	180
36	Anaerobic digestion of whole stillage from dry-grind corn ethanol plant under mesophilic and thermophilic conditions. Bioresource Technology, 2011, 102, 1079-1086.	4.8	65

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37	Effect of inoculum/substrate ratio on mesophilic anaerobic digestion of bioethanol plant whole stillage in batch mode. Process Biochemistry, 2011, 46, 1682-1687.	1.8	71
38	Effect of low temperature microwave pretreatment on characteristics and mesophilic digestion of primary sludge. Environmental Technology (United Kingdom), 2009, 30, 319-327.	1.2	37
39	Synergetic pretreatment of sewage sludge by microwave irradiation in presence of H2O2 for enhanced anaerobic digestion. Water Research, 2008, 42, 4674-4682.	5.3	182
40	Performance of Anaerobic Waste Activated Sludge Digesters After Microwave Pretreatment. Water Environment Research, 2007, 79, 2265-2273.	1.3	62
41	Enhancement of Batch Waste Activated Sludge Digestion by Microwave Pretreatment. Water Environment Research, 2007, 79, 2304-2317.	1.3	89
42	Athermal microwave effects for enhancing digestibility of waste activated sludge. Water Research, 2007, 41, 2457-2466.	5.3	237
43	Characterization of soluble organic matter of waste activated sludge before and after thermal pretreatment. Water Research, 2006, 40, 3725-3736.	5.3	215