

Cigdem Eskicioglu

List of Publications by Year in descending order

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43
papers

2,846
citations

236925

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h-index

254184

43
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44
all docs

44
docs citations

44
times ranked

2642
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of construction and demolition waste management in Canada: a lifecycle analysis approach to sustainability. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 81-91.	4.1	373
2	Athermal microwave effects for enhancing digestibility of waste activated sludge. <i>Water Research</i> , 2007, 41, 2457-2466.	11.3	237
3	Characterization of soluble organic matter of waste activated sludge before and after thermal pretreatment. <i>Water Research</i> , 2006, 40, 3725-3736.	11.3	215
4	Synergetic pretreatment of sewage sludge by microwave irradiation in presence of H ₂ O ₂ for enhanced anaerobic digestion. <i>Water Research</i> , 2008, 42, 4674-4682.	11.3	182
5	Microwave, ultrasonic and chemo-mechanical pretreatments for enhancing methane potential of pulp mill wastewater treatment sludge. <i>Bioresource Technology</i> , 2011, 102, 7815-7826.	9.6	180
6	Recent developments on thermal municipal sludge pretreatment technologies for enhanced anaerobic digestion. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 110, 423-443.	16.4	156
7	Biogas Production from Organic Waste: Recent Progress and Perspectives. <i>Waste and Biomass Valorization</i> , 2020, 11, 1019-1040.	3.4	141
8	A review on key design and operational parameters to optimize and develop hydrothermal liquefaction of biomass for biorefinery applications. <i>Green Chemistry</i> , 2021, 23, 1404-1446.	9.0	117
9	Hydrochar derived from municipal sludge through hydrothermal processing: A critical review on its formation, characterization, and valorization. <i>Water Research</i> , 2021, 199, 117186.	11.3	106
10	Enhancement of Batch Waste Activated Sludge Digestion by Microwave Pretreatment. <i>Water Environment Research</i> , 2007, 79, 2304-2317.	2.7	89
11	Assessment of hydrothermal pretreatment of various lignocellulosic biomass with CO ₂ catalyst for enhanced methane and hydrogen production. <i>Water Research</i> , 2017, 120, 32-42.	11.3	79
12	Anaerobic co-digestion of microalgal biomass and wheat straw with and without thermo-alkaline pretreatment. <i>Bioresource Technology</i> , 2017, 237, 89-98.	9.6	76
13	High pressure homogenization and two-phased anaerobic digestion for enhanced biogas conversion from municipal waste sludge. <i>Water Research</i> , 2014, 66, 430-446.	11.3	72
14	Effect of inoculum/substrate ratio on mesophilic anaerobic digestion of bioethanol plant whole stillage in batch mode. <i>Process Biochemistry</i> , 2011, 46, 1682-1687.	3.7	71
15	Phosphorus recovery from municipal sludge-derived ash and hydrochar through wet-chemical technology: A review towards sustainable waste management. <i>Chemical Engineering Journal</i> , 2021, 417, 129300.	12.7	71
16	Anaerobic digestion of whole stillage from dry-grind corn ethanol plant under mesophilic and thermophilic conditions. <i>Bioresource Technology</i> , 2011, 102, 1079-1086.	9.6	65
17	Performance of Anaerobic Waste Activated Sludge Digesters After Microwave Pretreatment. <i>Water Environment Research</i> , 2007, 79, 2265-2273.	2.7	62
18	Approaches and processes for ammonia removal from side-streams of municipal effluent treatment plants. <i>Bioresource Technology</i> , 2018, 268, 797-810.	9.6	53

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19	Conductive heating and microwave hydrolysis under identical heating profiles for advanced anaerobic digestion of municipal sludge. <i>Water Research</i> , 2013, 47, 5040-5051.	11.3	50
20	Influences of low-energy input microwave and ultrasonic pretreatments on single-stage and temperature-phased anaerobic digestion (TPAD) of municipal wastewater sludge. <i>Energy</i> , 2017, 123, 271-282.	8.8	44
21	Effect of biochar and wood ash amendment on biochemical methane production of wastewater sludge from a temperature phase anaerobic digestion process. <i>Bioresource Technology</i> , 2020, 297, 122440.	9.6	42
22	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. <i>Bioresource Technology</i> , 2021, 322, 124470.	9.6	42
23	Assessing iron and aluminum-based coagulants for odour and pathogen reductions in sludge digesters and enhanced digestate dewaterability. <i>Science of the Total Environment</i> , 2017, 598, 881-888.	8.0	40
24	Effect of low temperature microwave pretreatment on characteristics and mesophilic digestion of primary sludge. <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 319-327.	2.2	37
25	Effect of dewatered sludge microwave pretreatment temperature and duration on net energy generation and biosolids quality from anaerobic digestion. <i>Energy</i> , 2019, 168, 782-795.	8.8	29
26	Assessment of microbial viability in municipal sludge following ultrasound and microwave pretreatments and resulting impacts on the efficiency of anaerobic sludge digestion. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2855-2868.	3.6	23
27	Effects of metal salt addition on odor and process stability during the anaerobic digestion of municipal waste sludge. <i>Waste Management</i> , 2015, 46, 449-458.	7.4	21
28	PERMITTIVITY OF WASTE-ACTIVATED SLUDGE BY AN OPEN-ENDED COAXIAL LINE. <i>Progress in Electromagnetics Research Letters</i> , 2012, 29, 139-149.	0.7	18
29	A Review on the Fate of Legacy and Alternative Antimicrobials and Their Metabolites during Wastewater and Sludge Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9241.	4.1	18
30	Comparative Analysis of Bacterial and Archaeal Community Structure in Microwave Pretreated Thermophilic and Mesophilic Anaerobic Digesters Utilizing Mixed Sludge under Organic Overloading. <i>Water (Switzerland)</i> , 2020, 12, 887.	2.7	17
31	A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes. <i>Sustainability</i> , 2021, 13, 11515.	3.2	17
32	Occurrence and fate of antimicrobial triclocarban and its transformation products in municipal sludge during advanced anaerobic digestion using microwave pretreatment. <i>Science of the Total Environment</i> , 2020, 705, 135862.	8.0	15
33	Biochar amendment rapidly shifts microbial community structure with enhanced thermophilic digestion activity. <i>Bioresource Technology</i> , 2021, 341, 125864.	9.6	13
34	AN EXPERIMENTAL 13.56 MHZ RADIO FREQUENCY HEATING SYSTEM FOR EFFICIENT THERMAL PRETREATMENT OF WASTEWATER SLUDGE. <i>Progress in Electromagnetics Research B</i> , 2017, 79, 83-101.	1.0	12
35	Incorporating hydrothermal liquefaction into wastewater treatment – Part I: Process optimization for energy recovery and evaluation of product distribution. <i>Chemical Engineering Journal</i> , 2022, 449, 137838.	12.7	12
36	Comparison of anaerobic, cycling aerobic/anoxic, and sequential anaerobic/aerobic/anoxic digestion to remove triclosan and triclosan metabolites from municipal biosolids. <i>Science of the Total Environment</i> , 2020, 745, 140953.	8.0	11

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37	Enhancement of lignocellulosic biomass anaerobic digestion by optimized mild alkaline hydrogen peroxide pretreatment for biorefinery applications. <i>Journal of Environmental Management</i> , 2021, 298, 113539.	7.8	11
38	Occurrence of the Persistent Antimicrobial Triclosan in Microwave Pretreated and Anaerobically Digested Municipal Sludges under Various Process Conditions. <i>Molecules</i> , 2020, 25, 310.	3.8	9
39	Empirical modeling of the effects of emerging pretreatment methods on anaerobic digestion of pulp mill biosolids. <i>Biochemical Engineering Journal</i> , 2012, 68, 167-177.	3.6	5
40	Mitigation of recalcitrant nutrients and organic pollutants from small- to medium-scale biological nutrient removal plant sludge by digester optimization. <i>Waste Management</i> , 2020, 106, 132-144.	7.4	5
41	Laboratory and field scale biodegradability assessment of biocomposite cellphone cases for end-of-life management. <i>Waste Management</i> , 2022, 138, 148-157.	7.4	4
42	Comparative response of thermophilic and mesophilic sludge digesters to zinc oxide nanoparticles. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24521-24534.	5.3	3
43	Examination of single-stage anaerobic and anoxic/aerobic and dual-stage anaerobic-anoxic/aerobic digestion to remove pharmaceuticals from municipal biosolids. <i>Science of the Total Environment</i> , 2021, 791, 148237.	8.0	3