

Elsayed Elbeshbishy

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

2,971
citations

201385

27
h-index

168136

53
g-index

83
all docs

83
docs citations

83
times ranked

3071
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review on inhibition of dark biohydrogen fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 656-668.	8.2	299
2	A Review on Anaerobic Co-Digestion with a Focus on the Microbial Populations and the Effect of Multi-Stage Digester Configuration. <i>Energies</i> , 2019, 12, 1106.	1.6	224
3	Enzymatic pretreatment of lignocellulosic biomass for enhanced biomethane production-A review. <i>Journal of Environmental Management</i> , 2019, 233, 774-784.	3.8	208
4	Biochemical methane potential (BMP) of food waste and primary sludge: Influence of inoculum pre-incubation and inoculum source. <i>Bioresource Technology</i> , 2012, 110, 18-25.	4.8	195
5	Single and combined effect of various pretreatment methods for biohydrogen production from food waste. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11379-11387.	3.8	158
6	Effect of organic loading on a novel hydrogen bioreactor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 81-92.	3.8	142
7	Hydrogen production from sugar beet juice using an integrated biohydrogen process of dark fermentation and microbial electrolysis cell. <i>Bioresource Technology</i> , 2015, 198, 223-230.	4.8	142
8	Comparative assessment of single-stage and two-stage anaerobic digestion for the treatment of thin stillage. <i>Bioresource Technology</i> , 2012, 111, 122-126.	4.8	135
9	Comparative study of the effect of ultrasonication on the anaerobic biodegradability of food waste in single and two-stage systems. <i>Bioresource Technology</i> , 2011, 102, 6449-6457.	4.8	90
10	A critical review of conventional and emerging methods for improving process stability in thermophilic anaerobic digestion. <i>Energy for Sustainable Development</i> , 2020, 54, 72-84.	2.0	88
11	Batch anaerobic co-digestion of proteins and carbohydrates. <i>Bioresource Technology</i> , 2012, 116, 170-178.	4.8	73
12	Energy-positive food wastewater treatment using an anaerobic membrane bioreactor (AnMBR). <i>Journal of Environmental Management</i> , 2016, 182, 477-485.	3.8	71
13	Enhancement of biohydrogen producing using ultrasonication. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6184-6193.	3.8	69
14	Evaluation of Different Pretreatment Processes of Lignocellulosic Biomass for Enhanced Biomethane Production. <i>Energy & Fuels</i> , 2017, 31, 10335-10347.	2.5	66
15	Ultrasonication for biohydrogen production from food waste. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2896-2903.	3.8	58
16	Impact of ultrasonication of hog manure on anaerobic digestability. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 164-171.	3.8	55
17	Co-fermentation of glucose, starch, and cellulose for mesophilic biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20958-20967.	3.8	51
18	Characterization and optimization of cathodic conditions for H ₂ O ₂ synthesis in microbial electrochemical cells. <i>Bioresource Technology</i> , 2015, 195, 31-36.	4.8	51

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19	Sequential supercritical water gasification and partial oxidation of hog manure. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11756-11767.	3.8	48
20	Impact of organic loading rate on biohydrogen production in an up-flow anaerobic packed bed reactor (UAnPBR). <i>Bioresource Technology</i> , 2014, 164, 371-379.	4.8	46
21	Performance of an anaerobic fluidized bed bioreactor (AnFBR) for digestion of primary municipal wastewater treatment biosolids and bioethanol thin stillage. <i>Renewable Energy</i> , 2014, 71, 276-285.	4.3	46
22	Bio-hydrogen production from thin stillage using conventional and acclimatized anaerobic digester sludge. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12761-12769.	3.8	43
23	Viability of ultrasonication of food waste for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2960-2964.	3.8	41
24	Ammonium nitrogen removal from the permeates of anaerobic membrane bioreactors: economic regeneration of exhausted zeolite. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2008-2017.	1.2	38
25	Enzymatic pre-treatment for enhancement of primary sludge fermentation. <i>Bioresource Technology</i> , 2020, 305, 123071.	4.8	34
26	Comparison of liquid and dewatered digestate as inoculum for anaerobic digestion of organic solid wastes. <i>Waste Management</i> , 2019, 87, 228-236.	3.7	33
27	Kinetic study on anaerobic oxidation of methane coupled to denitrification. <i>Enzyme and Microbial Technology</i> , 2017, 104, 47-55.	1.6	29
28	Fate of cellulose in primary and secondary treatment at municipal water resource recovery facilities. <i>Water Environment Research</i> , 2019, 91, 1479-1489.	1.3	29
29	Biohydrogen production from pretreated corn cobs. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19921-19927.	3.8	28
30	Hydrogen production using sono-biohydrogenator. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1456-1465.	3.8	24
31	Enhancement of denitrification efficiency using municipal and industrial waste fermentation liquids as external carbon sources. <i>Science of the Total Environment</i> , 2022, 816, 151578.	3.9	24
32	Hydrothermal pretreatment of source separated organics for enhanced solubilization and biomethane recovery. <i>Bioresource Technology</i> , 2019, 274, 502-511.	4.8	23
33	Improving single- and two-stage anaerobic digestion of source separated organics by hydrothermal pretreatment. <i>Biochemical Engineering Journal</i> , 2019, 148, 77-86.	1.8	22
34	Anaerobic digestion of municipal wastewater sludges using anaerobic fluidized bed bioreactor. <i>Bioresource Technology</i> , 2014, 172, 461-466.	4.8	21
35	Performance evaluation and microbial community analysis of mesophilic and thermophilic sludge fermentation processes coupled with thermal hydrolysis. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110832.	8.2	20
36	Modeling the Effect of Sonication on the Anaerobic Digestion of Biosolids. <i>Energy & Fuels</i> , 2010, 24, 4703-4711.	2.5	19

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37	Integrated fermentation and anaerobic digestion of primary sludges for simultaneous resource and energy recovery: Impact of volatile fatty acids recovery. <i>Waste Management</i> , 2020, 118, 341-349.	3.7	19
38	Effect of headspace carbon dioxide sequestration on microbial biohydrogen communities. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9966-9976.	3.8	18
39	Effect of Hydrothermal Pretreatment on Volatile Fatty Acids Production from Thickened Waste Activated Sludge. <i>Bioenergy Research</i> , 2020, 13, 591-604.	2.2	17
40	Combined thermal hydrolysis pretreatment and anaerobic co-digestion of waste activated sludge and food waste. <i>Renewable Energy</i> , 2022, 195, 528-539.	4.3	14
41	Simultaneous regeneration of exhausted zeolite and nitrogen recovery using an air stripping method at alkaline pH. <i>Water Quality Research Journal of Canada</i> , 2016, 51, 321-330.	1.2	13
42	Simulation of the Impact of SRT on Anaerobic Digestability of Ultrasonicated Hog Manure. <i>Energies</i> , 2010, 3, 974-988.	1.6	12
43	Combined hydrothermal and free nitrous acid, alkali and acid pretreatment for biomethane recovery from municipal sludge. <i>Waste Management</i> , 2021, 131, 376-385.	3.7	11
44	Codigestion of high pressure thermal hydrolysis-treated thickened waste activated sludge with primary sludge in two-stage anaerobic digestion. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 425-433.	1.3	10
45	Simulating the impact of suppression of methanogenesis in continuous flow biohydrogen reactors. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5885-5894.	3.8	9
46	Effect of Hydrothermal Pretreatment on Volatile Fatty Acids Production from Source-Separated Organics. <i>Processes</i> , 2019, 7, 576.	1.3	8
47	Comparison of Two Process Schemes Combining Hydrothermal Treatment and Acidogenic Fermentation of Source-Separated Organics. <i>Molecules</i> , 2019, 24, 1466.	1.7	8
48	A comprehensive study for characteristics, acidogenic fermentation, and anaerobic digestion of source separated organics. <i>Journal of Cleaner Production</i> , 2019, 228, 73-85.	4.6	8
49	Evaluation of sludge liquors from acidogenic fermentation and thermal hydrolysis process as feedstock for microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30031-30038.	3.8	8
50	Acetone-butanol-ethanol production in a novel continuous flow system. <i>Bioresource Technology</i> , 2015, 190, 315-320.	4.8	7
51	Conceptualizing the sewage collection system for integrated sewer-WWTP modelling and optimization. <i>Journal of Hydrology</i> , 2019, 573, 710-716.	2.3	7
52	Biomethane production improvement by hydrothermal pretreatment of thickened waste activated sludge. <i>Water Science and Technology</i> , 2021, 83, 487-500.	1.2	7
53	Volatile Fatty Acids and Biomethane Recovery from Thickened Waste Activated Sludge: Hydrothermal Pretreatment's Retention Time Impact. <i>Processes</i> , 2020, 8, 1580.	1.3	6
54	Enhancing sludge dewaterability and phosphate removal through a novel chemical dosing strategy using ferric chloride and hydrogen peroxide. <i>Water Environment Research</i> , 2021, 93, 232-240.	1.3	6

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55	Methods of pretreatment and their impacts on anaerobic codigestion of multifeedstocks: A review. <i>Water Environment Research</i> , 2021, 93, 2834-2852.	1.3	6
56	Impact of alkaline-hydrolyzed biosolids (Lystek) addition on the anaerobic digestibility of TWAS in lab and full-scale anaerobic digesters. <i>Waste Management</i> , 2014, 34, 2090-2097.	3.7	5
57	Biological nutrient removal enhancement using fermented primary and rotating belt filter biosolids. <i>Science of the Total Environment</i> , 2021, 796, 148947.	3.9	5
58	A proof-of-concept experimental study for vacuum-driven anaerobic biosolids fermentation using the IntensiCarb technology. <i>Water Environment Research</i> , 2022, 94, e10694.	1.3	5
59	Novel Application of Ultrasonication for Enhancement of Biohydrogen and Biomethane Production from Food Waste. <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 708-714.	0.0	3
60	Assessing the Nonbiodegradable Fraction of the Thickened Waste Activated Sludge. <i>Water Environment Research</i> , 2015, 87, 707-711.	1.3	3
61	Integrated two-phase acidogenic-methanogenic treatment of municipal sludge with thermal hydrolysis. <i>Waste Management</i> , 2022, 144, 173-181.	3.7	3
62	Assessing the Optimum SRT for Anaerobic Digester with Sludge Pretreatment for Sulfide Control. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 4254-4264.	0.0	2
63	Bioenergy production data from anaerobic digestion of thermally hydrolyzed organic fraction of municipal solid waste. <i>Data in Brief</i> , 2019, 22, 1018-1026.	0.5	2
64	Application of the Peroxide Regenerated Iron Digester Enhancement (PRI-DE) Technology for Anaerobic Digestion of Primary Sludge. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 2626-2635.	0.0	1
65	A comprehensive dataset on anaerobic digestion of cattle manure, source separated organics, and municipal sludge using different inoculum sources. <i>Data in Brief</i> , 2019, 24, 103913.	0.5	1
66	Processes for Bioenergy and Resources Recovery from Biowaste. <i>Processes</i> , 2020, 8, 1005.	1.3	1
67	Model-based Management and Control of the Bioreactions in a Collection System. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 2700-2708.	0.0	1
68	Effect of Free Nitrous Acid Pretreatment on Fermentation and Anaerobic Digestion. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 431-439.	0.0	1
69	The Effect of Free Nitrous Acid Pretreatment on The Anaerobic Digestibility of Thickened Waste Activated Sludge. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 766-774.	0.0	1
70	Effect of Ultrasonication on Anaerobic Digestion of Hog Manure. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 4861-4866.	0.0	0
71	Sono-Thermal Pretreatment of Waste Activated Sludge for Enhanced Anaerobic Digestion and Volatile Sulfur Compounds Control in Biogas. <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 685-695.	0.0	0
72	Application of Ultrasonication to High Strength Organic Wastes for Hydrogen and Methane Production. <i>Proceedings of the Water Environment Federation</i> , 2012, 2012, 999-1010.	0.0	0

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73	Performance of an Anaerobic Fluidized Bed Bioreactor (AnFBR) for Digestion of Municipal Biosolids and Bioethanol wastes. Proceedings of the Water Environment Federation, 2013, 2013, 5297-5318.	0.0	0
74	Impact of Recirculation of Alkaline-Hydrolyzed Biosolids on the Anaerobic Digestibility of TWAS in Full-and Lab-Scale Anaerobic Digesters. Proceedings of the Water Environment Federation, 2014, 2014, 1741-1750.	0.0	0
75	Performance of a Submerged Anaerobic Membrane Bioreactor (SAnMBR) for Food Wastewater Treatment: Treatment Efficiency and Membrane Fouling. Proceedings of the Water Environment Federation, 2014, 2014, 1753-1766.	0.0	0
76	Comparison between Different Pretreatment Techniques for Enhancement of the Anaerobic Digestability of Different Waste Streams. Proceedings of the Water Environment Federation, 2014, 2014, 3034-3043.	0.0	0
77	Effect of thermal pretreatment on digestability of thickened waste activated sludge and primary sludge in two-stage anaerobic digestion. Proceedings of the Water Environment Federation, 2015, 2015, 1562-1570.	0.0	0
78	Long-term Biochemical Methane Potential (BMP) Test for Estimation of Non- biodegradable Fraction in Biosolids. Proceedings of the Water Environment Federation, 2016, 2016, 69-73.	0.0	0
79	Thermophilic Biomethane production from thin stillage Using Anaerobic Fluidized Bed Bioreactors (AnFBRs). Proceedings of the Water Environment Federation, 2016, 2016, 144-173.	0.0	0
80	Thermophilic Biomethane production Using Particulate Biofilm Bioreactors from Industrial Waste Stream. Proceedings of the Water Environment Federation, 2016, 2016, 1435-1442.	0.0	0
81	Free Nitrous Acid Pretreatment of Thickened Waste Activated Sludge Improves Anaerobic Degradability. Proceedings of the Water Environment Federation, 2017, 2017, 75-84.	0.0	0
82	Mapping Cellulose Content and Degradability in Water Resource Recovery Facilities: European and North-American Case Studies. Proceedings of the Water Environment Federation, 2018, 2018, 98-105.	0.0	0
83	Mesophilic Anaerobic Co-digestion of Manure and Thickened Waste Activated Sludge at Different Mixture Ratios. Proceedings of the Water Environment Federation, 2018, 2018, 166-173.	0.0	0