Israel Diaz

List of Publications by Year
in descending order

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27 papers	1,604 citations	394421 19 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1632 citing authors

#	Article	IF	Citations
1	A review on the state-of-the-art of physical/chemical and biological technologies for biogas upgrading. Reviews in Environmental Science and Biotechnology, 2015, 14, 727-759.	8.1	468
2	Microaeration for hydrogen sulfide removal during anaerobic treatment: a review. Reviews in Environmental Science and Biotechnology, 2015, 14, 703-725.	8.1	152
3	A feasibility study on the bioconversion of CO2 and H2 to biomethane by gas sparging through polymeric membranes. Bioresource Technology, 2015, 185, 246-253.	9.6	128
4	Performance evaluation of oxygen, air and nitrate for the microaerobic removal of hydrogen sulphide in biogas from sludge digestion. Bioresource Technology, 2010, 101, 7724-7730.	9.6	97
5	Effect of oxygen dosing point and mixing on the microaerobic removal of hydrogen sulphide in sludge digesters. Bioresource Technology, 2011, 102, 3768-3775.	9.6	84
6	Effect of microaerobic conditions on the degradation kinetics of cellulose. Bioresource Technology, 2011, 102, 10139-10142.	9.6	69
7	A review on prospects and challenges of biological H2S removal from biogas with focus on biotrickling filtration and microaerobic desulfurization. Biofuel Research Journal, 2017, 4, 741-750.	13.3	66
8	H2 addition through a submerged membrane for in-situ biogas upgrading in the anaerobic digestion of sewage sludge. Bioresource Technology, 2019, 280, 1-8.	9.6	56
9	Evaluation of process performance, energy consumption and microbiota characterization in a ceramic membrane bioreactor for ex-situ biomethanation of H2 and CO2. Bioresource Technology, 2018, 258, 142-150.	9.6	51
10	Hydrogen sulphide removal in the anaerobic digestion of sludge by micro-aerobic processes: pilot plant experience. Water Science and Technology, 2009, 60, 3045-3050.	2.5	48
11	Economic analysis of microaerobic removal of H2S from biogas in full-scale sludge digesters. Bioresource Technology, 2015, 192, 280-286.	9.6	44
12	Feasibility study of biogas upgrading coupled with nutrient removal from anaerobic effluents using microalgae-based processes. Journal of Applied Phycology, 2016, 28, 2147-2157.	2.8	42
13	Biogas from Anaerobic Digestion as an Energy Vector: Current Upgrading Development. Energies, 2021, 14, 2742.	3.1	36
14	Anaerobic membrane bioreactors: Are membranes really necessary?. Electronic Journal of Biotechnology, 2008, 11, 0-0.	2.2	35
15	Effect of operating pressure on direct biomethane production from carbon dioxide and exogenous hydrogen in the anaerobic digestion of sewage sludge. Applied Energy, 2020, 280, 115915.	10.1	34
16	Determination of the optimal rate for the microaerobic treatment of several H2S concentrations in biogas from sludge digesters. Water Science and Technology, 2011, 64, 233-238.	2.5	29
17	Robustness of the microaerobic removal of hydrogen sulfide from biogas. Water Science and Technology, 2012, 65, 1368-1374.	2.5	27
18	The role of the headspace in hydrogen sulfide removal during microaerobic digestion of sludge. Water Science and Technology, 2012, 66, 2258-2264.	2.5	24

#	Article	IF	Citations
19	Development, identification and validation of a mathematical model of anaerobic digestion of sewage sludge focusing on H 2 S formation and transfer. Biochemical Engineering Journal, 2016, 112, 13-19.	3.6	23
20	Anaerobic digestion of food waste coupled with biogas upgrading in an outdoors algal-bacterial photobioreactor at pilot scale. Fuel, 2022, 324, 124554.	6.4	21
21	Value-added co-products from biomass of the diatoms Staurosirella pinnata and Phaeodactylum tricornutum. Algal Research, 2020, 47, 101830.	4.6	18
22	Biogas Purification and Upgrading Technologies. Biofuel and Biorefinery Technologies, 2018, , 239-276.	0.3	16
23	Enhancing the biomethane potential of liquid dairy cow manure by addition of solid manure fractions. Biotechnology Letters, 2016, 38, 2097-2102.	2.2	14
24	Traceability of organic contaminants in the sludge line of wastewater treatment plants: A comparison study among schemes incorporating thermal hydrolysis treatment and the conventional anaerobic digestion. Bioresource Technology, 2020, 305, 123028.	9.6	13
25	Influence of the operating conditions of the intermediate thermal hydrolysis on the energetic efficiency of the sludge treatment process. Bioresource Technology, 2021, 333, 125114.	9.6	6
26	Environment and Material Science Technology for Anaerobic Digestion-Based Circular Bioeconomy. , 2021, , 25-55.		2
27	Mathematical modelling of in-situ microaerobic desulfurization of biogas from sewage sludge digestion. Biotechnology Reports (Amsterdam, Netherlands), 2018, 20, e00293.	4.4	1