

Israel Diaz

List of Publications by Year in descending order

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Version: 2024-02-01

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	Anaerobic digestion of food waste coupled with biogas upgrading in an outdoors algal-bacterial photobioreactor at pilot scale. <i>Fuel</i> , 2022, 324, 124554.	6.4	21
2	Environment and Material Science Technology for Anaerobic Digestion-Based Circular Bioeconomy. , 2021, , 25-55.		2
3	Biogas from Anaerobic Digestion as an Energy Vector: Current Upgrading Development. <i>Energies</i> , 2021, 14, 2742.	3.1	36
4	Influence of the operating conditions of the intermediate thermal hydrolysis on the energetic efficiency of the sludge treatment process. <i>Bioresource Technology</i> , 2021, 333, 125114.	9.6	6
5	Effect of operating pressure on direct biomethane production from carbon dioxide and exogenous hydrogen in the anaerobic digestion of sewage sludge. <i>Applied Energy</i> , 2020, 280, 115915.	10.1	34
6	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. <i>Bioresource Technology</i> , 2020, 305, 123028.	9.6	13
7	Value-added co-products from biomass of the diatoms <i>Staurosirella pinnata</i> and <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2020, 47, 101830.	4.6	18
8	H ₂ addition through a submerged membrane for in-situ biogas upgrading in the anaerobic digestion of sewage sludge. <i>Bioresource Technology</i> , 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 H ₂ and CO ₂ . <i>Bioresource Technology</i> , 2018, 258, 142-150.	9.6	51
10	Biogas Purification and Upgrading Technologies. <i>Biofuel and Biorefinery Technologies</i> , 2018, , 239-276.	0.3	16
11	Mathematical modelling of in-situ microaerobic desulfurization of biogas from sewage sludge digestion. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018, 20, e00293.	4.4	1
12	A review on prospects and challenges of biological H ₂ S removal from biogas with focus on biotrickling filtration and microaerobic desulfurization. <i>Biofuel Research Journal</i> , 2017, 4, 741-750.	13.3	66
13	Development, identification and validation of a mathematical model of anaerobic digestion of sewage sludge focusing on H ₂ S formation and transfer. <i>Biochemical Engineering Journal</i> , 2016, 112, 13-19.	3.6	23
14	Enhancing the biomethane potential of liquid dairy cow manure by addition of solid manure fractions. <i>Biotechnology Letters</i> , 2016, 38, 2097-2102.	2.2	14
15	Feasibility study of biogas upgrading coupled with nutrient removal from anaerobic effluents using microalgae-based processes. <i>Journal of Applied Phycology</i> , 2016, 28, 2147-2157.	2.8	42
16	A feasibility study on the bioconversion of CO ₂ and H ₂ to biomethane by gas sparging through polymeric membranes. <i>Bioresource Technology</i> , 2015, 185, 246-253.	9.6	128
17	Microaeration for hydrogen sulfide removal during anaerobic treatment: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2015, 14, 703-725.	8.1	152
18	Economic analysis of microaerobic removal of H ₂ S from biogas in full-scale sludge digesters. <i>Bioresource Technology</i> , 2015, 192, 280-286.	9.6	44

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19	A review on the state-of-the-art of physical/chemical and biological technologies for biogas upgrading. <i>Reviews in Environmental Science and Biotechnology</i> , 2015, 14, 727-759.	8.1	468
20	The role of the headspace in hydrogen sulfide removal during microaerobic digestion of sludge. <i>Water Science and Technology</i> , 2012, 66, 2258-2264.	2.5	24
21	Robustness of the microaerobic removal of hydrogen sulfide from biogas. <i>Water Science and Technology</i> , 2012, 65, 1368-1374.	2.5	27
22	Effect of microaerobic conditions on the degradation kinetics of cellulose. <i>Bioresource Technology</i> , 2011, 102, 10139-10142.	9.6	69
23	Effect of oxygen dosing point and mixing on the microaerobic removal of hydrogen sulphide in sludge digesters. <i>Bioresource Technology</i> , 2011, 102, 3768-3775.	9.6	84
24	Determination of the optimal rate for the microaerobic treatment of several H ₂ S concentrations in biogas from sludge digesters. <i>Water Science and Technology</i> , 2011, 64, 233-238.	2.5	29
25	Performance evaluation of oxygen, air and nitrate for the microaerobic removal of hydrogen sulphide in biogas from sludge digestion. <i>Bioresource Technology</i> , 2010, 101, 7724-7730.	9.6	97
26	Hydrogen sulphide removal in the anaerobic digestion of sludge by micro-aerobic processes: pilot plant experience. <i>Water Science and Technology</i> , 2009, 60, 3045-3050.	2.5	48
27	Anaerobic membrane bioreactors: Are membranes really necessary?. <i>Electronic Journal of Biotechnology</i> , 2008, 11, 0-0.	2.2	35