

Andrea Gianico

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,420
citations

304602

22
h-index

330025

37
g-index

42
all docs

42
docs citations

42
times ranked

1690
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic bioconversion of food waste into energy: A critical review. <i>Bioresource Technology</i> , 2018, 248, 37-56.	4.8	277
2	Comparison between ozone and ultrasound disintegration on sludge anaerobic digestion. <i>Journal of Environmental Management</i> , 2012, 95, S139-S143.	3.8	85
3	Thermophilic anaerobic digestion of thermal pretreated sludge: Role of microbial community structure and correlation with process performances. <i>Water Research</i> , 2015, 68, 498-509.	5.3	80
4	Single stage anaerobic bioconversion of food waste in mono and co-digestion with olive husks: Impact of thermal pretreatment on hydrogen and methane production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 905-915.	3.8	70
5	Reduced temperature hydrolysis at 134°C before thermophilic anaerobic digestion of waste activated sludge at increasing organic load. <i>Bioresource Technology</i> , 2013, 143, 96-103.	4.8	60
6	Laboratory-scale ultrasound pre-treated digestion of sludge: Heat and energy balance. <i>Bioresource Technology</i> , 2011, 102, 7567-7573.	4.8	58
7	The impact of sludge pre-treatments on mesophilic and thermophilic anaerobic digestion efficiency: Role of the organic load. <i>Chemical Engineering Journal</i> , 2015, 270, 362-371.	6.6	57
8	Land Application of Biosolids in Europe: Possibilities, Con-Straints and Future Perspectives. <i>Water (Switzerland)</i> , 2021, 13, 103.	1.2	53
9	Variability of food waste chemical composition: Impact of thermal pre-treatment on lignocellulosic matrix and anaerobic biodegradability. <i>Journal of Environmental Management</i> , 2019, 236, 100-107.	3.8	44
10	Long-term anaerobic digestion of food waste at semi-pilot scale: Relationship between microbial community structure and process performances. <i>Biomass and Bioenergy</i> , 2018, 118, 55-64.	2.9	41
11	Kitchen waste valorization through a mild-temperature pretreatment to enhance biogas production and fermentability: Kinetics study in mesophilic and thermophilic regimen. <i>Journal of Environmental Sciences</i> , 2020, 89, 167-179.	3.2	38
12	Direct Conversion of Food Waste Extract into Caproate: Metagenomics Assessment of Chain Elongation Process. <i>Microorganisms</i> , 2021, 9, 327.	1.6	37
13	Anaerobic co-digestion of food waste and waste activated sludge: ADM1 modelling and microbial analysis to gain insights into the two substrates' synergistic effects. <i>Waste Management</i> , 2019, 97, 27-37.	3.7	36
14	Ultrasonic and thermal pretreatments to enhance the anaerobic bioconversion of olive husks. <i>Bioresource Technology</i> , 2013, 147, 623-626.	4.8	32
15	Microbial diversity in innovative mesophilic/thermophilic temperature-phased anaerobic digestion of sludge. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7339-7348.	2.7	31
16	Potential of high-frequency ultrasounds to improve sludge anaerobic conversion and surfactants removal at different food/inoculum ratio. <i>Bioresource Technology</i> , 2014, 159, 207-214.	4.8	30
17	Quality assessment of digested sludges produced by advanced stabilization processes. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7216-7235.	2.7	30
18	Hygienization performances of innovative sludge treatment solutions to assure safe land spreading. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7237-7247.	2.7	29

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19	Upgrading a wastewater treatment plant with thermophilic digestion of thermally pre-treated secondary sludge: techno-economic and environmental assessment. <i>Journal of Cleaner Production</i> , 2015, 102, 353-361.	4.6	27
20	Innovative two-stage mesophilic/thermophilic anaerobic degradation of sonicated sludge: performances and energy balance. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7248-7256.	2.7	27
21	Is sonication effective to improve biogas production and solids reduction in excess sludge digestion?. <i>Water Science and Technology</i> , 2008, 57, 479-483.	1.2	25
22	Partitioning of nutrients and micropollutants along the sludge treatment line: a case study. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6256-6265.	2.7	24
23	Syntrophic acetate oxidation during the two-phase anaerobic digestion of waste activated sludge: Microbial population, Gibbs free energy and kinetic modelling. <i>International Biodeterioration and Biodegradation</i> , 2017, 125, 177-188.	1.9	24
24	Anaerobic digestion of mixed urban biowaste: The microbial community shift towards stability. <i>New Biotechnology</i> , 2020, 55, 108-117.	2.4	24
25	A novel cascade biorefinery approach to transform food waste into valuable chemicals and biogas through thermal pretreatment integration. <i>Bioresource Technology</i> , 2021, 338, 125517.	4.8	23
26	Effect of ultrasound on particle surface charge and filterability during sludge anaerobic digestion. <i>Water Science and Technology</i> , 2009, 60, 2025-2033.	1.2	22
27	Elucidating the key factors in semicontinuous anaerobic digestion of urban biowaste: The crucial role of sludge addition in process stability, microbial community enrichment and methane production. <i>Renewable Energy</i> , 2021, 179, 272-284.	4.3	18
28	Biomethane potential of food waste: modeling the effects of mild thermal pretreatment and digestion temperature. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1452-1464.	1.2	16
29	A model-based tool for reactor configuration of thermophilic biogas plants fed with Waste Activated Sludge. <i>Renewable Energy</i> , 2017, 113, 411-419.	4.3	15
30	Pre-treatments and anaerobic hydrolysis as strategical key steps for resource recovery from sludge: The role of disintegration degree in metals leaching. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104649.	3.3	15
31	Investigating the influences of quorum quenching and nutrient conditions on activated sludge flocs at a short-time scale. <i>Chemosphere</i> , 2020, 248, 125917.	4.2	14
32	Microbial Community Successional Changes in a Full-Scale Mesophilic Anaerobic Digester from the Start-Up to the Steady-State Conditions. <i>Microorganisms</i> , 2021, 9, 2581.	1.6	12
33	ROUTES: innovative solutions for municipal sludge treatment and management. <i>Reviews in Environmental Science and Biotechnology</i> , 2012, 11, 11-17.	3.9	11
34	Advanced anaerobic processes to enhance waste activated sludge stabilization. <i>Water Science and Technology</i> , 2014, 69, 1728-1734.	1.2	9
35	Enhanced Versus Conventional Sludge Anaerobic Processes: Performances and Techno-Economic Assessment. <i>Water Environment Research</i> , 2016, 88, 468-478.	1.3	6
36	Preliminary results of lab-scale investigations of products of incomplete combustion during incineration of primary and mixed digested sludge. <i>Environmental Science and Pollution Research</i> , 2016, 23, 4585-4593.	2.7	5

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37	Insights into the Anaerobic Hydrolysis Process for Extracting Embedded EPS and Metals from Activated Sludge. <i>Microorganisms</i> , 2021, 9, 2523.	1.6	4
38	3-ROUTES PLATFORM FOR RECOVERY OF HIGH VALUE PRODUCTS, ENERGY AND BIO-FERTILIZER FROM URBAN BIOWASTE: THE REVENUE PROJECT. <i>Detritus</i> , 2021, , 24-30.	0.4	3
39	Innovative two-steps thermochemical pretreatment for sludge reduction and energy recovery: cost and energy assessment. <i>Water and Environment Journal</i> , 2020, 34, 540-550.	1.0	2
40	Cascade systems to recover resources from sludge by the integration of pretreatments to fermentation-based anaerobic bioleaching process. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107711.	3.3	2