

Anuska Mosquera-Corral

List of Publications by Year in descending order

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134
papers

5,821
citations

71061

41
h-index

82499

72
g-index

137
all docs

137
docs citations

137
times ranked

3536
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of activity and inhibition effects on Anammox process by batch tests based on the nitrogen gas production. <i>Enzyme and Microbial Technology</i> , 2007, 40, 859-865.	1.6	480
2	Short- and long-term effects of temperature on the Anammox process. <i>Journal of Hazardous Materials</i> , 2008, 154, 688-693.	6.5	276
3	Partial nitrification in a SHARON reactor in the presence of salts and organic carbon compounds. <i>Process Biochemistry</i> , 2005, 40, 3109-3118.	1.8	216
4	Aerobic granulation with industrial wastewater in sequencing batch reactors. <i>Water Research</i> , 2004, 38, 3389-3399.	5.3	202
5	Short- and long-term effects of ammonium and nitrite on the Anammox process. <i>Journal of Environmental Management</i> , 2012, 95, S170-S174.	3.8	200
6	Effects of oxygen concentration on N-removal in an aerobic granular sludge reactor. <i>Water Research</i> , 2005, 39, 2676-2686.	5.3	198
7	Biofilm and granular systems to improve Anammox biomass retention. <i>Biochemical Engineering Journal</i> , 2008, 42, 308-313.	1.8	196
8	Stability of the ANAMMOX process in a gas-lift reactor and a SBR. <i>Journal of Biotechnology</i> , 2004, 110, 159-170.	1.9	194
9	Nitrification in saline wastewater with high ammonia concentration in an activated sludge unit. <i>Water Research</i> , 2002, 36, 2555-2560.	5.3	149
10	Treatment of anaerobic sludge digester effluents by the CANON process in an air pulsing SBR. <i>Journal of Hazardous Materials</i> , 2009, 166, 336-341.	6.5	107
11	Kinetics of denitrification using sulphur compounds: Effects of S/N ratio, endogenous and exogenous compounds. <i>Bioresource Technology</i> , 2008, 99, 1293-1299.	4.8	101
12	Microbial community distribution and activity dynamics of granular biomass in a CANON reactor. <i>Water Research</i> , 2010, 44, 4359-4370.	5.3	101
13	Effects of mechanical stress on Anammox granules in a sequencing batch reactor (SBR). <i>Journal of Biotechnology</i> , 2006, 123, 453-463.	1.9	93
14	Treatment of saline wastewater in SBR aerobic granular reactors. <i>Water Science and Technology</i> , 2008, 58, 479-485.	1.2	93
15	Operation of an Anammox SBR in the presence of two broad-spectrum antibiotics. <i>Process Biochemistry</i> , 2009, 44, 494-498.	1.8	93
16	Monitoring the stability of an Anammox reactor under high salinity conditions. <i>Biochemical Engineering Journal</i> , 2010, 51, 167-171.	1.8	93
17	Greenhouse Gases Emissions from Wastewater Treatment Plants: Minimization, Treatment, and Prevention. <i>Journal of Chemistry</i> , 2016, 2016, 1-12.	0.9	91
18	Ozonation strategies to reduce sludge production of a seafood industry WWTP. <i>Bioresource Technology</i> , 2009, 100, 1069-1073.	4.8	89

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19	Applications of Anammox based processes to treat anaerobic digester supernatant at room temperature. <i>Bioresource Technology</i> , 2009, 100, 2988-2994.	4.8	89
20	Cross effect of temperature, pH and free ammonia on autotrophic denitrification process with sulphide as electron donor. <i>Chemosphere</i> , 2014, 97, 10-15.	4.2	86
21	Autotrophic nitrogen removal at low temperature. <i>Water Science and Technology</i> , 2011, 63, 1282-1288.	1.2	84
22	Integration of the Anammox process to the rejection water and main stream lines of WWTPs. <i>Chemosphere</i> , 2015, 140, 99-105.	4.2	80
23	Simultaneous methanogenesis and denitrification of pretreated effluents from a fish canning industry. <i>Water Research</i> , 2001, 35, 411-418.	5.3	71
24	Advanced technologies for water treatment and reuse. <i>AIChE Journal</i> , 2015, 61, 3146-3158.	1.8	67
25	Polyhydroxyalkanoates (PHAs) Production: A Feasible Economic Option for the Treatment of Sewage Sludge in Municipal Wastewater Treatment Plants?. <i>Water (Switzerland)</i> , 2020, 12, 1118.	1.2	62
26	Anammox process for nitrogen removal from anaerobically digested fish canning effluents. <i>Water Science and Technology</i> , 2006, 53, 265-274.	1.2	59
27	Nitrogen and Phosphorus Recovery From Anaerobically Pretreated Agro-Food Wastes: A Review. <i>Frontiers in Sustainable Food Systems</i> , 2019, 2, .	1.8	58
28	Improvement of the settling properties of Anammox sludge in an SBR. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1417-1420.	1.6	57
29	Thermal pre-treatment of aerobic granular sludge: Impact on anaerobic biodegradability. <i>Water Research</i> , 2011, 45, 6011-6020.	5.3	57
30	Filamentous bacteria existence in aerobic granular reactors. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 841-851.	1.7	56
31	Autotrophic denitrification with sulphide in a sequencing batch reactor. <i>Journal of Environmental Management</i> , 2012, 113, 552-556.	3.8	52
32	The granular biomass properties and the acclimation period affect the partial nitrification/anammox process stability at a low temperature and ammonium concentration. <i>Process Biochemistry</i> , 2016, 51, 2134-2142.	1.8	52
33	Is the CANON reactor an alternative for nitrogen removal from pre-treated swine slurry?. <i>Biochemical Engineering Journal</i> , 2012, 65, 23-29.	1.8	50
34	Nitrifying granular systems: A suitable technology to obtain stable partial nitrification at room temperature. <i>Separation and Purification Technology</i> , 2010, 74, 178-186.	3.9	49
35	Operation of an aerobic granular pilot scale SBR plant to treat swine slurry. <i>Process Biochemistry</i> , 2013, 48, 1216-1221.	1.8	49
36	Impact of oxygen limitation on glycerol-based biopolymer production by bacterial enrichments. <i>Water Research</i> , 2013, 47, 1209-1217.	5.3	48

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37	Nitrite oxidizing bacteria suppression based on in-situ free nitrous acid production at mainstream conditions. <i>Separation and Purification Technology</i> , 2017, 186, 55-62.	3.9	48
38	Effects of short- and long-term exposures of humic acid on the Anammox activity and microbial community. <i>Environmental Science and Pollution Research</i> , 2019, 26, 19012-19024.	2.7	45
39	Aerobic granular SBR systems applied to the treatment of industrial effluents. <i>Journal of Environmental Management</i> , 2012, 95, S88-S92.	3.8	44
40	Influence of biomass acclimation on the performance of a partial nitrification-anammox reactor treating industrial saline effluents. <i>Chemosphere</i> , 2018, 194, 131-138.	4.2	44
41	Does the feeding strategy enhance the aerobic granular sludge stability treating saline effluents?. <i>Chemosphere</i> , 2019, 226, 865-873.	4.2	44
42	Influence of dissolved oxygen concentration on the start-up of the anammox-based process: ELAN [®] . <i>Water Science and Technology</i> , 2015, 72, 520-527.	1.2	43
43	Performance and microbial features of the partial nitrification-anammox process treating fish canning wastewater with variable salt concentrations. <i>Journal of Environmental Management</i> , 2018, 208, 112-121.	3.8	43
44	Coupled BAS and anoxic USB system to remove urea and formaldehyde from wastewater. <i>Water Research</i> , 2003, 37, 3445-3451.	5.3	41
45	Pilot-scale ELAN [®] process applied to treat primary settled urban wastewater at low temperature via partial nitrification-anammox processes. <i>Separation and Purification Technology</i> , 2018, 200, 94-101.	3.9	40
46	Start up of a pilot scale aerobic granular reactor for organic matter and nitrogen removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 763-768.	1.6	39
47	Toxic effects exerted on methanogenic, nitrifying and denitrifying bacteria by chemicals used in a milk analysis laboratory. <i>Enzyme and Microbial Technology</i> , 2002, 31, 976-985.	1.6	38
48	Stability of a nitrifying activated sludge reactor. <i>Biochemical Engineering Journal</i> , 2007, 35, 87-92.	1.8	37
49	Characteristics of nitrifying granules developed in an air pulsing SBR. <i>Process Biochemistry</i> , 2009, 44, 602-606.	1.8	36
50	Comparative study on pilots between ANAMMOX favored conditions in a partially saturated vertical flow constructed wetland and a hybrid system for rural wastewater treatment. <i>Science of the Total Environment</i> , 2019, 670, 644-653.	3.9	35
51	Implications of full-scale implementation of an anammox-based process as post-treatment of a municipal anaerobic sludge digester operated with co-digestion. <i>Water Science and Technology</i> , 2014, 69, 1151-1158.	1.2	33
52	Optimization of an enriched mixed culture to increase PHA accumulation using industrial saline complex wastewater as a substrate. <i>Chemosphere</i> , 2020, 247, 125873.	4.2	33
53	Degradation of polymers in a biofilm airlift suspension reactor. <i>Water Research</i> , 2003, 37, 485-492.	5.3	32
54	Influence of gas flow-induced shear stress on the operation of the Anammox process in a SBR. <i>Chemosphere</i> , 2008, 72, 1687-1693.	4.2	32

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55	Aerobic granular-type biomass development in a continuous stirred tank reactor. <i>Separation and Purification Technology</i> , 2012, 89, 199-205.	3.9	32
56	Treatment of high loaded swine slurry in an aerobic granular reactor. <i>Water Science and Technology</i> , 2011, 63, 1808-1814.	1.2	30
57	Substrate versatility of polyhydroxyalkanoate producing glycerol grown bacterial enrichment culture. <i>Water Research</i> , 2014, 66, 190-198.	5.3	30
58	Enhanced ammonia removal at room temperature by pH controlled partial nitrification and subsequent anaerobic ammonium oxidation. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 383-390.	1.2	29
59	Performance of partial nitritation-anammox processes at mainstream conditions in an IFAS system. <i>Journal of Environmental Management</i> , 2019, 250, 109538.	3.8	29
60	Development and application of a denitrification test based on gas production. <i>Water Science and Technology</i> , 2000, 41, 113-120.	1.2	28
61	Bacterial community dynamics in long-term operation of a pilot plant using aerobic granular sludge to treat pig slurry. <i>Biotechnology Progress</i> , 2016, 32, 1212-1221.	1.3	28
62	Transient concentrations of NaCl affect the PHA accumulation in mixed microbial culture. <i>Journal of Hazardous Materials</i> , 2016, 306, 332-339.	6.5	28
63	Post-treatment of effluents from anaerobic digesters by the Anammox process. <i>Water Science and Technology</i> , 2009, 60, 1135-1143.	1.2	27
64	Modelling aerobic granular SBR at variable COD/N ratios including accurate description of total solids concentration. <i>Biochemical Engineering Journal</i> , 2010, 49, 173-184.	1.8	27
65	Influence of the cycle length on the production of PHA and polyglucose from glycerol by bacterial enrichments in sequencing batch reactors. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3148-3155.	1.7	26
66	PHA accumulation of a mixed microbial culture co-exists with ammonia partial nitritation. <i>Chemical Engineering Journal</i> , 2019, 360, 1255-1261.	6.6	26
67	A novel control strategy for enhancing biological N-removal in a granular sequencing batch reactor: A model-based study. <i>Chemical Engineering Journal</i> , 2013, 232, 468-477.	6.6	24
68	Anaerobic digestion of aerobic granular biomass: effects of thermal pretreatment and addition of primary sludge. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 690-697.	1.6	24
69	Granular biomass floatation: A simple kinetic/stoichiometric explanation. <i>Chemical Engineering Journal</i> , 2017, 311, 63-71.	6.6	24
70	Comparison of the anaerobic digestion of activated and aerobic granular sludges under brackish conditions. <i>Chemical Engineering Journal</i> , 2013, 231, 449-454.	6.6	23
71	Multiple analysis reprogrammable titration analyser for the kinetic characterization of nitrifying and autotrophic denitrifying biomass. <i>Biochemical Engineering Journal</i> , 2005, 26, 176-183.	1.8	22
72	Environmental assessment of complex wastewater valorisation by polyhydroxyalkanoates production. <i>Science of the Total Environment</i> , 2020, 744, 140893.	3.9	22

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73	Potential of endogenous PHA as electron donor for denitrification. <i>Science of the Total Environment</i> , 2019, 695, 133747.	3.9	21
74	Sequencing versus continuous granular sludge reactor for the treatment of freshwater aquaculture effluents. <i>Water Research</i> , 2021, 201, 117293.	5.3	20
75	Simple methods for the determination of the denitrifying activity of sludges. <i>Bioresource Technology</i> , 2000, 75, 1-6.	4.8	18
76	Influence of the shear stress and salinity on Anammox biofilms formation: modelling results. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1955-1961.	1.7	18
77	N ₂ O Production by Nitrifying Biomass Under Anoxic and Aerobic Conditions. <i>Applied Biochemistry and Biotechnology</i> , 2009, 152, 189-198.	1.4	17
78	Activated sludge versus aerated lagoon treatment of kraft mill effluents containing Î²-sitosterol and stigmasterol. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 327-335.	0.9	17
79	Aerobic granulation in a mechanical stirred SBR: treatment of low organic loads. <i>Water Science and Technology</i> , 2011, 64, 155-161.	1.2	16
80	Determination of the intrinsic kinetic parameters of ammonia-oxidizing and nitrite-oxidizing bacteria in granular and flocculent sludge. <i>Separation and Purification Technology</i> , 2019, 213, 571-577.	3.9	16
81	Mainstream anammox reactor performance treating municipal wastewater and batch study of temperature, pH and organic matter concentration cross-effects. <i>Chemical Engineering Research and Design</i> , 2021, 145, 195-202.	2.7	16
82	Revealing the dissimilar structure of microbial communities in different WWTPs that treat fish-canning wastewater with different NaCl content. <i>Journal of Water Process Engineering</i> , 2021, 44, 102328.	2.6	16
83	Partial Nitrification-Anammox Granules: Short-Term Inhibitory Effects of Seven Metals on Anammox Activity. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	15
84	Volatile fatty acid production from saline cooked mussel processing wastewater at low pH. <i>Science of the Total Environment</i> , 2020, 732, 139337.	3.9	15
85	A novel strategy for triacylglycerides and polyhydroxyalkanoates production using waste lipids. <i>Science of the Total Environment</i> , 2021, 763, 142944.	3.9	15
86	Effect of coagulant-flocculant reagents on aerobic granular biomass. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 908-913.	1.6	14
87	NaCl presence and purification affect the properties of mixed culture PHAs. <i>European Polymer Journal</i> , 2016, 85, 256-265.	2.6	14
88	Novel system configuration with activated sludge like-geometry to develop aerobic granular biomass under continuous flow. <i>Bioresource Technology</i> , 2018, 267, 778-781.	4.8	14
89	High-Yield Synthesis of Poly(3-hydroxybutyrate- <i>co</i> -3-hydroxyvalerate) Copolymers in a Mixed Microbial Culture: Effect of Substrate Switching and F/M Ratio. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21921-21926.	1.8	14
90	Bottom-up approach in the assessment of environmental impacts and costs of an innovative anammox-based process for nitrogen removal. <i>Journal of Environmental Management</i> , 2018, 225, 112-119.	3.8	13

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91	Denitrifying activity via nitrite and N ₂ O production using acetate and swine wastewater. <i>Process Biochemistry</i> , 2012, 47, 1202-1206.	1.8	12
92	Potential impact on the recruitment of chemical engineering graduates due to the industrial internship. <i>Education for Chemical Engineers</i> , 2019, 26, 107-113.	2.8	12
93	Features of aerobic granular sludge formation treating fluctuating industrial saline wastewater at pilot scale. <i>Journal of Environmental Management</i> , 2021, 296, 113135.	3.8	12
94	Combined System for Biological Removal of Nitrogen and Carbon from a Fish Cannery Wastewater. <i>Journal of Environmental Engineering, ASCE</i> , 2003, 129, 826-833.	0.7	11
95	How to cope with NOB activity and pig manure inhibition in a partial nitrification-anammox process?. <i>Separation and Purification Technology</i> , 2019, 212, 396-404.	3.9	11
96	Salinity is the major driver of the global eukaryotic community structure in fish-canning wastewater treatment plants. <i>Journal of Environmental Management</i> , 2021, 290, 112623.	3.8	10
97	Performance of a two-stage partial nitrification-anammox system treating the supernatant of a sludge anaerobic digester pretreated by a thermal hydrolysis process. <i>Chemical Engineering Journal</i> , 2022, 429, 131301.	6.6	10
98	Dynamics of PHA-Accumulating Bacterial Communities Fed with Lipid-Rich Liquid Effluents from Fish-Canning Industries. <i>Polymers</i> , 2022, 14, 1396.	2.0	10
99	Optimizing upflow velocity and calcium precipitation in denitrifying granular systems. <i>Process Biochemistry</i> , 2015, 50, 1656-1661.	1.8	9
100	Feasible microbial accumulation of triacylglycerides from crude glycerol. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2644-2651.	1.6	9
101	Effects of the cycle distribution on the performance of SBRs with aerobic granular biomass. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1463-1472.	1.2	8
102	Effect of Free Ammonia, Free Nitrous Acid, and Alkalinity on the Partial Nitrification of Pretreated Pig Slurry, Using an Alternating Oxidic/Anoxic SBR. <i>BioMed Research International</i> , 2017, 2017, 1-7.	0.9	8
103	Digested blackwater treatment in a partial nitrification-anammox reactor under repeated starvation and reactivation periods. <i>Journal of Cleaner Production</i> , 2020, 244, 118733.	4.6	8
104	Strategies for the valorisation of a protein-rich saline waste stream into polyhydroxyalkanoates (PHA). <i>Bioresource Technology</i> , 2021, 334, 124964.	4.8	8
105	Open-culture biotechnological process for triacylglycerides and polyhydroxyalkanoates recovery from industrial waste fish oil under saline conditions. <i>Separation and Purification Technology</i> , 2021, 270, 118805.	3.9	8
106	Use of biopolymers as solid substrates for denitrification. <i>Water Science and Technology</i> , 2012, 65, 105-111.	1.2	7
107	Effects of Inoculum Type and Aeration Flowrate on the Performance of Aerobic Granular SBRs. <i>Processes</i> , 2017, 5, 41.	1.3	7
108	Is the ammonia stripping pre-treatment suitable for the nitrogen removal via partial nitrification-anammox of OFMSW digestate?. <i>Journal of Hazardous Materials</i> , 2021, 403, 123458.	6.5	7

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109	Population dynamics of nitrite oxidizers in nitrifying granules. <i>Water Science and Technology</i> , 2009, 60, 2529-2536.	1.2	6
110	Application of biofilm reactors to improve ammonia oxidation in low nitrogen loaded wastewater. <i>Water Science and Technology</i> , 2011, 63, 1880-1886.	1.2	6
111	Recovery of Polyhydroxyalkanoates from Cooked Mussel Processing Wastewater at High Salinity and Acidic Conditions. <i>Sustainability</i> , 2020, 12, 10386.	1.6	6
112	Limits of the anammox process in granular systems to remove nitrogen at low temperature and nitrogen concentration. <i>Chemical Engineering Research and Design</i> , 2020, 138, 349-355.	2.7	5
113	Understanding the microbial trends in a nitrification reactor fed with primary settled municipal wastewater. <i>Separation and Purification Technology</i> , 2021, 256, 117828.	3.9	5
114	Assessment of a fast method to predict the biochemical methane potential based on biodegradable COD obtained by fractionation respirometric tests. <i>Journal of Environmental Management</i> , 2020, 269, 110695.	3.8	5
115	Short- and long-term orange dye effects on ammonium oxidizing and anammox bacteria activities. <i>Water Science and Technology</i> , 2017, 76, 79-86.	1.2	4
116	Biomass aggregation influences NaN ₃ short-term effects on anammox bacteria activity. <i>Water Science and Technology</i> , 2017, 75, 1007-1013.	1.2	4
117	Transformation of organic contamination from wastewater into bioplastics (polyhydroxyalkanoate) by microorganisms. , 2020, , 415-433.		4
118	Valorization of lipid-rich wastewaters: A theoretical analysis to tackle the competition between polyhydroxyalkanoate and triacylglyceride-storing populations. <i>Science of the Total Environment</i> , 2022, 807, 150761.	3.9	4
119	Modeling the Impact of Salinity Variations on Aquatic Environments: Including Negative and Positive Effects in Life Cycle Assessment. <i>Environmental Science & Technology</i> , 2022, 56, 874-884.	4.6	4
120	Pulsed aeration enhances aerobic granular biomass properties. <i>Biochemical Engineering Journal</i> , 2019, 149, 107244.	1.8	3
121	Anammox Process. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2017, , 264-289.	0.3	3
122	How can we validate the environmental profile of bioplastics? Towards the introduction of polyhydroxyalkanoates (PHA) in the value chains. , 2022, , 405-429.		3
123	Simplified engineering design towards a competitive lipid-rich effluents valorization. <i>Journal of Environmental Management</i> , 2022, 317, 115433.	3.8	3
124	Membrane Fouling Mitigation in MBR via the Feast-Famine Strategy to Enhance PHA Production by Activated Sludge. <i>Membranes</i> , 2022, 12, 703.	1.4	3
125	Anaerobic treatment of low-strength synthetic TCF effluents and biomass adhesion in fixed-bed systems. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 535-540.	1.7	2
126	Monitoring the stability of aerobic granular sludge using fractal dimension analysis. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 706-713.	1.2	2

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127	Cultivable microalgae diversity from a freshwater aquaculture filtering system and its potential for polishing aquaculture-derived water streams. <i>Journal of Applied Microbiology</i> , 2022, 132, 1543-1556.	1.4	2
128	Predicting Accumulation of Intermediate Compounds in Nitrification and Autotrophic Denitrification Processes: A Chemical Approach. <i>BioMed Research International</i> , 2019, 2019, 1-9.	0.9	1
129	Bioconversion of Organic Pollutants in Fish-Canning Wastewater into Volatile Fatty Acids and Polyhydroxyalkanoate. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10176.	1.2	1
130	Nutrients Pollution in Water Bodies. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2017, , 21-42.	0.3	1
131	AEROBIC GRANULATION PROCESS FOR WASTE TREATMENT. , 2012, , 475-509.		0
132	Transformations, Treatment, and Prevention of Water Pollutants. <i>Journal of Chemistry</i> , 2016, 2016, 1-2.	0.9	0
133	Sistemas granulares aerobios para el tratamiento descentralizado de aguas servidas y su reutilización en condominios en Chile. <i>Ingeniare</i> , 2020, 28, 346-357.	0.1	0
134	Factors That Affect Methane Yield Using Raw Olive Alperujo (Unhydrolyzed) as Substrate in BMP Assays. <i>Recycling</i> , 2022, 7, 15.	2.3	0