

Angeles Val del Rio

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,655
citations

257357

24
h-index

330025

37
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81
all docs

81
docs citations

81
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring morphological changes from activated sludge to aerobic granular sludge under distinct organic loading rates and increasing minimal imposed sludge settling velocities through quantitative image analysis. <i>Chemosphere</i> , 2022, 286, 131637.	4.2	2
2	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
3	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
4	Prediction of sludge settleability, density and suspended solids of aerobic granular sludge in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric tools. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107136.	3.3	3
5	Pilot-scale continuous flow granular reactor for the treatment of extremely low-strength recirculating aquaculture system wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107247.	3.3	4
6	Techno-Economic Evaluation of Ozone Application to Reduce Sludge Production in Small Urban WWTPs. <i>Sustainability</i> , 2022, 14, 2480.	1.6	4
7	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
8	Simplified engineering design towards a competitive lipid-rich effluents valorization. <i>Journal of Environmental Management</i> , 2022, 317, 115433.	3.8	3
9	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
10	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
11	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
12	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
13	A novel strategy for triacylglycerides and polyhydroxyalkanoates production using waste lipids. <i>Science of the Total Environment</i> , 2021, 763, 142944.	3.9	15
14	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
15	Bacterial inactivation, photoreactivation and dark repair post flow-through pulsed UV disinfection. <i>Journal of Water Process Engineering</i> , 2021, 41, 102070.	2.6	18
16	Assessment of an aerobic granular sludge system in the presence of pharmaceutically active compounds by quantitative image analysis and chemometric techniques. <i>Journal of Environmental Management</i> , 2021, 289, 112474.	3.8	9
17	Application of Anammox-Based Processes in Urban WWTPs: Are We on the Right Track?. <i>Processes</i> , 2021, 9, 1334.	1.3	4
18	Strategies for the valorisation of a protein-rich saline waste stream into polyhydroxyalkanoates (PHA). <i>Bioresource Technology</i> , 2021, 334, 124964.	4.8	8

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19	Validation of a quantitative image analysis methodology for the assessment of the morphology and structure of aerobic granular sludge in the presence of pharmaceutically active compounds. <i>Environmental Technology and Innovation</i> , 2021, 23, 101639.	3.0	8
20	Sequencing versus continuous granular sludge reactor for the treatment of freshwater aquaculture effluents. <i>Water Research</i> , 2021, 201, 117293.	5.3	20
21	Wastewater Valorization: Practice around the World at Pilot- and Full-Scale. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9466.	1.2	10
22	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
23	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
24	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
25	Sludge volume index and suspended solids estimation of mature aerobic granular sludge by quantitative image analysis and chemometric tools. <i>Separation and Purification Technology</i> , 2020, 234, 116049.	3.9	24
26	Transformation of organic contamination from wastewater into bioplastics (polyhydroxyalkanoate) by microorganisms. , 2020, , 415-433.		4
27	Recovery of Polyhydroxyalkanoates from Cooked Mussel Processing Wastewater at High Salinity and Acidic Conditions. <i>Sustainability</i> , 2020, 12, 10386.	1.6	6
28	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
29	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
30	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
31	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
32	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
33	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
34	Potential of endogenous PHA as electron donor for denitrification. <i>Science of the Total Environment</i> , 2019, 695, 133747.	3.9	21
35	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
36	Performance of partial nitrification-anammox processes at mainstream conditions in an IFAS system. <i>Journal of Environmental Management</i> , 2019, 250, 109538.	3.8	29

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37	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
38	Nitrogen and Phosphorus Recovery From Anaerobically Pretreated Agro-Food Wastes: A Review. <i>Frontiers in Sustainable Food Systems</i> , 2019, 2, .	1.8	58
39	Pulsed aeration enhances aerobic granular biomass properties. <i>Biochemical Engineering Journal</i> , 2019, 149, 107244.	1.8	3
40	Does the feeding strategy enhance the aerobic granular sludge stability treating saline effluents?. <i>Chemosphere</i> , 2019, 226, 865-873.	4.2	44
41	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
42	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
43	Inactivation efficiency of <i>Bacillus</i> endospores via modified flow-through PUV treatment with comparison to conventional LPUV treatment. <i>Journal of Water Process Engineering</i> , 2019, 27, 67-76.	2.6	12
44	PHA accumulation of a mixed microbial culture co-exists with ammonia partial nitrification. <i>Chemical Engineering Journal</i> , 2019, 360, 1255-1261.	6.6	26
45	Feasible microbial accumulation of triacylglycerides from crude glycerol. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2644-2651.	1.6	9
46	Pilot-scale ELAN Â® 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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Granular biomass floatation: A simple kinetic/stoichiometric explanation. Chemical Engineering Journal, 2017, 311, 63-71.	6.6	24
56	Effects of Inoculum Type and Aeration Flowrate on the Performance of Aerobic Granular SBRs. Processes, 2017, 5, 41.	1.3	7
57	Anammox Process. Advances in Environmental Engineering and Green Technologies Book Series, 2017, , 264-289.	0.3	3
58	Nutrients Pollution in Water Bodies. Advances in Environmental Engineering and Green Technologies Book Series, 2017, , 21-42.	0.3	1
59	Greenhouse Gases Emissions from Wastewater Treatment Plants: Minimization, Treatment, and Prevention. Journal of Chemistry, 2016, 2016, 1-12.	0.9	91
60	Transformations, Treatment, and Prevention of Water Pollutants. Journal of Chemistry, 2016, 2016, 1-2.	0.9	0
61	Bacterial community dynamics in long-term operation of a pilot plant using aerobic granular sludge to treat pig slurry. Biotechnology Progress, 2016, 32, 1212-1221.	1.3	28
62	The granular biomass properties and the acclimation period affect the partial nitrification/anammox process stability at a low temperature and ammonium concentration. Process Biochemistry, 2016, 51, 2134-2142.	1.8	52
63	Filamentous bacteria existence in aerobic granular reactors. Bioprocess and Biosystems Engineering, 2015, 38, 841-851.	1.7	56
64	Integration of the Anammox process to the rejection water and main stream lines of WWTPs. Chemosphere, 2015, 140, 99-105.	4.2	80
65	Influence of dissolved oxygen concentration on the start-up of the anammox-based process: ELANÂ®. Water Science and Technology, 2015, 72, 520-527.	1.2	43
66	Optimizing upflow velocity and calcium precipitation in denitrifying granular systems. Process Biochemistry, 2015, 50, 1656-1661.	1.8	9
67	Enhanced ammonia removal at room temperature by pH controlled partial nitrification and subsequent anaerobic ammonium oxidation. Environmental Technology (United Kingdom), 2014, 35, 383-390.	1.2	29
68	Anaerobic digestion of aerobic granular biomass: effects of thermal pre-treatment and addition of primary sludge. Journal of Chemical Technology and Biotechnology, 2014, 89, 690-697.	1.6	24
69	Comparison of the anaerobic digestion of activated and aerobic granular sludges under brackish conditions. Chemical Engineering Journal, 2013, 231, 449-454.	6.6	23
70	Operation of an aerobic granular pilot scale SBR plant to treat swine slurry. Process Biochemistry, 2013, 48, 1216-1221.	1.8	49
71	Effects of the cycle distribution on the performance of SBRs with aerobic granular biomass. Environmental Technology (United Kingdom), 2013, 34, 1463-1472.	1.2	8
72	Long term operation of a granular sequencing batch reactor at pilot scale treating a low-strength wastewater. Chemical Engineering Journal, 2012, 198-199, 163-170.	6.6	72

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73	Aerobic granular SBR systems applied to the treatment of industrial effluents. Journal of Environmental Management, 2012, 95, S88-S92.	3.8	44
74	Effect of coagulant-flocculant reagents on aerobic granular biomass. Journal of Chemical Technology and Biotechnology, 2012, 87, 908-913.	1.6	14
75	Thermal pre-treatment of aerobic granular sludge: Impact on anaerobic biodegradability. Water Research, 2011, 45, 6011-6020.	5.3	57
76	Start up of a pilot scale aerobic granular reactor for organic matter and nitrogen removal. Journal of Chemical Technology and Biotechnology, 2011, 86, 763-768.	1.6	39
77	Application of biofilm reactors to improve ammonia oxidation in low nitrogen loaded wastewater. Water Science and Technology, 2011, 63, 1880-1886.	1.2	6
78	Treatment of high loaded swine slurry in an aerobic granular reactor. Water Science and Technology, 2011, 63, 1808-1814.	1.2	30