

Cesar HuiliÃ±ir

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,090
citations

394286

19
h-index

454834

30
g-index

62
all docs

62
docs citations

62
times ranked

1146
citing authors

#	ARTICLE	IF	CITATIONS
1	Valorization of oat husk by hydrothermal carbonization: Optimization of process parameters and anaerobic digestion of spent liquors. <i>Bioresource Technology</i> , 2022, 343, 126112.	4.8	13
2	Anodic Oxidation of Industrial Winery Wastewater Using Different Anodes. <i>Water (Switzerland)</i> , 2022, 14, 95.	1.2	13
3	Biogas production from winery wastewater: Effect of the substrate-inoculum ratio on fly ash addition and iron availability. <i>Journal of Water Process Engineering</i> , 2022, 47, 102826.	2.6	6
4	Performance of EGSB reactor using natural zeolite as support for treatment of synthetic swine wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104922.	3.3	7
5	Effect of the addition of fly ash on the specific methane production and microbial communities in the anaerobic digestion of real winery wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2882-2890.	1.6	11
6	Partial Nitrification in a Sequencing Moving Bed Biofilm Reactor (SMBBR) with Zeolite as Biomass Carrier: Effect of Sulfide Pulses and Organic Matter Presence. <i>Water (Switzerland)</i> , 2021, 13, 2484.	1.2	3
7	Fly ash from coal combustion as improver of anaerobic digestion: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106422.	3.3	11
8	Sulfur-based mixotrophic denitrification with the stoichiometric S^{0}/N ratio and methanol supplementation: effect of the C/N ratio on the process. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 1420-1427.	0.9	1
9	Coupling of Anaerobic Digestion and Struvite Precipitation in the Same Reactor: Effect of Zeolite and Bischofite as Mg^{2+} Source. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	3
10	Nitrification in the presence of sulfide and organic matter in a sequencing moving bed biofilm reactor (SMBBR) with zeolite as biomass carrier. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 173-182.	1.6	6
11	Assessment of simultaneous autotrophicâ€”heterotrophic denitrification with high removal of nitrogen, sulfur and carbon: optimization through response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 631-638.	1.6	2
12	Biodrying of dewatered secondary sludge: behavior of dynamic respiration index (DRI) and energy release under different operating conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 94-101.	1.6	0
13	Modeling of the effect of zeolite concentration on the biological nitrification process in the presence of sulfide and organic matter. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 56, 1-12.	0.9	1
14	Valorization of the liquid fraction of co-hydrothermal carbonization of mixed biomass by anaerobic digestion: Effect of the substrate to inoculum ratio and hydrochar addition. <i>Bioresource Technology</i> , 2020, 317, 123989.	4.8	23
15	Application of zeolites for biological treatment processes of solid wastes and wastewaters â€” A review. <i>Bioresource Technology</i> , 2020, 301, 122808.	4.8	93
16	Carbon, nitrogen and phosphorus recovery from liquid swine wastes: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2335-2347.	1.6	19
17	Sustainable energy for a winery through biogas production and its utilization: A Chilean case study. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100640.	1.7	8
18	Elemental sulfur-based autotrophic denitrification in stoichiometric S^0/N ratio: Calibration and validation of a kinetic model. <i>Bioresource Technology</i> , 2020, 307, 123229.	4.8	10

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19	Characteristics and Treatment of Wastewater from the Mercaptan Oxidation Process: A Comprehensive Review. <i>Processes</i> , 2020, 8, 425.	1.3	13
20	Degradation of ampicillin antibiotic by electrochemical processes: evaluation of antimicrobial activity of treated water. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4404-4414.	2.7	27
21	Slaughterhouse wastewater treatment by a combined anaerobic digestion/solar photoelectro-Fenton process performed in semicontinuous operation. <i>Chemical Engineering Journal</i> , 2019, 378, 122097.	6.6	51
22	A new and simple kinetic model for assessing the dynamic behavior and simulating the biochemical methane potential (BMP) of sewage sludge in the presence of fly ash. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1509-1519.	1.6	2
23	Anaerobic digestion of wastewater rich in sulfate and sulfide: effects of metallic waste addition and micro-aeration on process performance and methane production. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 1035-1043.	0.9	7
24	Fly ash as stimulant for anaerobic digestion: effect over hydrolytic stage and methane generation rate. <i>Water Science and Technology</i> , 2019, 80, 1384-1391.	1.2	12
25	Biological nitrification in the presence of sulfide and organic matter: effect of zeolite on the process in a batch system. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2390-2398.	1.6	8
26	Effective removal of the antibiotic Nafcillin from water by combining the Photoelectro-Fenton process and Anaerobic Biological Digestion. <i>Science of the Total Environment</i> , 2018, 624, 1095-1105.	3.9	43
27	Increase in biogas production in anaerobic sludge digestion by combining aerobic hydrolysis and addition of metallic wastes. <i>Renewable Energy</i> , 2018, 123, 541-548.	4.3	29
28	Biochemical methane potential from sewage sludge: Effect of an aerobic pretreatment and fly ash addition as source of trace elements. <i>Waste Management</i> , 2017, 64, 140-148.	3.7	27
29	Use of solid residue from thermal power plant (fly ash) for enhancing sewage sludge anaerobic digestion: Influence of fly ash particle size. <i>Bioresource Technology</i> , 2017, 244, 416-422.	4.8	33
30	A new model for including the effect of fly ash on biochemical methane potential. <i>Waste Management</i> , 2017, 68, 232-239.	3.7	10
31	A new model of batch biodrying of sewage sludge, Part 1: Model development and simulations. <i>Drying Technology</i> , 2017, 35, 651-665.	1.7	10
32	A new model of batch biodrying of sewage sludge, Part 2: Model calibration and validation. <i>Drying Technology</i> , 2017, 35, 666-679.	1.7	9
33	Removal of organic matter contained in slaughterhouse wastewater using a combination of anaerobic digestion and solar photoelectro-Fenton processes. <i>Electrochimica Acta</i> , 2016, 210, 163-170.	2.6	60
34	Performance evaluation of micro-aerobic hydrolysis of mixed sludge: Optimum aeration and effect on its biochemical methane potential. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016, 51, 1269-1277.	0.9	9
35	Simultaneous nitrificationâ€“denitrification of wastewater: effect of zeolite as a support in sequential batch reactor with step-feed strategy. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 2325-2338.	1.8	19
36	Microbiological characterization for a new wild strain of <i>Paenibacillus polymyxa</i> with antifungal activity against <i>Botrytis cinerea</i> . <i>Biological Control</i> , 2016, 103, 251-260.	1.4	7

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37	Autotrophic denitrification with sulfide as electron donor: Effect of zeolite, organic matter and temperature in batch and continuous UASB reactors. <i>International Biodeterioration and Biodegradation</i> , 2016, 108, 158-165.	1.9	23
38	Microaerobic pretreatment of sewage sludge: Effect of air flow rate, pretreatment time and temperature on the aerobic process and methane generation. <i>International Biodeterioration and Biodegradation</i> , 2016, 110, 1-7.	1.9	38
39	Advances in the biological removal of sulphides from aqueous phase in anaerobic processes: A review. <i>Environmental Reviews</i> , 2016, 24, 84-100.	2.1	43
40	ANAEROBIC DIGESTION OF WASTEWATER WITH HIGH SULFATE CONCENTRATION USING MICRO-AERATION AND NATURAL ZEOLITES. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 743-752.	0.7	2
41	Autotrophic and heterotrophic denitrification for simultaneous removal of nitrogen, sulfur and organic matter. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016, 51, 650-5.	0.9	0
42	Simultaneous effect of initial moisture content and airflow rate on biodrying of sewage sludge. <i>Water Research</i> , 2015, 82, 118-128.	5.3	65
43	Biodegradability and methane production from secondary paper and pulp sludge: effect of fly ash and modeling. <i>Water Science and Technology</i> , 2015, 72, 230-237.	1.2	21
44	Simultaneous C and N removal from saline salmon effluents in filter reactors comprising anoxic-anaerobic-aerobic processes: Effect of recycle ratio. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 584-592.	0.9	8
45	Assessment of a UASB reactor with high ammonia concentrations: Effect of zeolite addition on process performance. <i>Process Biochemistry</i> , 2014, 49, 2220-2227.	1.8	29
46	Biodrying of sewage sludge: Kinetics of volatile solids degradation under different initial moisture contents and air-flow rates. <i>Bioresource Technology</i> , 2014, 174, 33-41.	4.8	42
47	Start-up and performance of UASB reactors using zeolite for improvement of nitrate removal process. <i>Ecological Engineering</i> , 2014, 70, 437-445.	1.6	18
48	Methane production from secondary paper and pulp sludge: Effect of natural zeolite and modeling. <i>Chemical Engineering Journal</i> , 2014, 257, 131-137.	6.6	40
49	Biodrying of pulp and paper secondary sludge: Kinetics of volatile solids biodegradation. <i>Bioresource Technology</i> , 2014, 157, 206-213.	4.8	30
50	Modeling of an anoxic/methanogenic biofilm: effect of pH calculation within the biofilm. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1675-1687.	1.7	3
51	Behavior of the anaerobic treatment of tannery wastewater at different initial pH values and sulfate concentrations. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 1073-1078.	0.9	13
52	Modeling of simultaneous denitrification â€œ Anaerobic digestion â€œ Organic matter aerobic oxidation and nitrification in an anoxicâ€œanaerobicâ€œaerobic compact filter reactor. <i>Journal of Biotechnology</i> , 2012, 160, 176-188.	1.9	8
53	Modelling of integrated anoxicâ€œanaerobicâ€œaerobic treatment for salmon fishery wastewater in an upflow fixed-bed biofilm reactor. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 607-622.	1.2	3
54	Simultaneous nitrate and organic matter removal from salmon industry wastewater: The effect of C/N ratio, nitrate concentration and organic load rate on batch and continuous process. <i>Journal of Environmental Management</i> , 2012, 101, 82-91.	3.8	17

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55	Modeling of the denitrification/anaerobic digestion process of salmon fishery wastewater in a biofilm tubular reactor. <i>Journal of Environmental Management</i> , 2011, 92, 1591-1608.	3.8	17
56	Dynamic modeling of partial nitrification in a rotating disk biofilm reactor: Calibration, validation and simulation. <i>Biochemical Engineering Journal</i> , 2010, 52, 7-18.	1.8	21
57	Model of simultaneous denitrification and methanogenesis in an Upflow Packed-Bed Biofilm Reactor: Nitrogen compounds' inhibition and pseudo two-dimensional biofilm model. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 254-268.	1.6	17
58	Kinetics of syntrophic acetogenesis in a saline medium. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1433-1440.	1.6	7
59	ORGANIC AND NITROGENOUS MATTER EFFECTS ON THE DENITRIFICATION OF SALINE AND PROTEIN-RICH EFFLUENTS. <i>Environmental Technology (United Kingdom)</i> , 2008, 29, 881-890.	1.2	4
60	Improvement of nitrate and nitrite reduction rates prediction. <i>Electronic Journal of Biotechnology</i> , 2008, 11, 0-0.	1.2	12