Cesar HuiliÃ±ir

List of Publications by Year
in descending order

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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	Application of zeolites for biological treatment processes of solid wastes and wastewaters â€“ A review. Bioresource Technology, 2020, 301, 122808.	4.8	93
2	Simultaneous effect of initial moisture content and airflow rate on biodrying of sewage sludge. Water Research, 2015, 82, 118-128.	5.3	65
3	Removal of organic matter contained in slaughterhouse wastewater using a combination of anaerobic digestion and solar photoelectro-Fenton processes. Electrochimica Acta, 2016, 210, 163-170.	2.6	60
4	Slaughterhouse wastewater treatment by a combined anaerobic digestion/solar photoelectro-Fenton process performed in semicontinuous operation. Chemical Engineering Journal, 2019, 378, 122097.	6.6	51
5	Advances in the biological removal of sulphides from aqueous phase in anaerobic processes: A review. Environmental Reviews, 2016, 24, 84-100.	2.1	43
6	Effective removal of the antibiotic Nafcillin from water by combining the Photoelectro-Fenton process and Anaerobic Biological Digestion. Science of the Total Environment, 2018, 624, 1095-1105.	3.9	43
7	Biodrying of sewage sludge: Kinetics of volatile solids degradation under different initial moisture contents and air-flow rates. Bioresource Technology, 2014, 174, 33-41.	4.8	42
8	Methane production from secondary paper and pulp sludge: Effect of natural zeolite and modeling. Chemical Engineering Journal, 2014, 257, 131-137.	6.6	40
9	Microaerobic pretreatment of sewage sludge: Effect of air flow rate, pretreatment time and temperature on the aerobic process and methane generation. International Biodeterioration and Biodegradation, 2016, 110, 1-7.	1.9	38
10	Use of solid residue from thermal power plant (fly ash) for enhancing sewage sludge anaerobic digestion: Influence of fly ash particle size. Bioresource Technology, 2017, 244, 416-422.	4.8	33
11	Biodrying of pulp and paper secondary sludge: Kinetics of volatile solids biodegradation. Bioresource Technology, 2014, 157, 206-213.	4.8	30
12	Assessment of a UASB reactor with high ammonia concentrations: Effect of zeolite addition on process performance. Process Biochemistry, 2014, 49, 2220-2227.	1.8	29
13	Increase in biogas production in anaerobic sludge digestion by combining aerobic hydrolysis and addition of metallic wastes. Renewable Energy, 2018, 123, 541-548.	4.3	29
14	Biochemical methane potential from sewage sludge: Effect of an aerobic pretreatment and fly ash addition as source of trace elements. Waste Management, 2017, 64, 140-148.	3.7	27
15	Degradation of ampicillin antibiotic by electrochemical processes: evaluation of antimicrobial activity of treated water. Environmental Science and Pollution Research, 2019, 26, 4404-4414.	2.7	27
16	Autotrophic denitrification with sulfide as electron donor: Effect of zeolite, organic matter and temperature in batch and continuous UASB reactors. International Biodeterioration and Biodegradation, 2016, 108, 158-165.	1.9	23
17	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. Bioresource Technology, 2020, 317, 123989.	4.8	23
18	Dynamic modeling of partial nitrification in a rotating disk biofilm reactor: Calibration, validation and simulation. Biochemical Engineering Journal, 2010, 52, 7-18.	1.8	21

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19	Biodegradability and methane production from secondary paper and pulp sludge: effect of fly ash and modeling. Water Science and Technology, 2015, 72, 230-237.	1.2	21
20	Simultaneous nitrificationâ€“denitrification of wastewater: effect of zeolite as a support in sequential batch reactor with step-feed strategy. International Journal of Environmental Science and Technology, 2016, 13, 2325-2338.	1.8	19
21	Carbon, nitrogen and phosphorus recovery from liquid swine wastes: a review. Journal of Chemical Technology and Biotechnology, 2020, 95, 2335-2347.	1.6	19
22	Start-up and performance of UASB reactors using zeolite for improvement of nitrate removal process. Ecological Engineering, 2014, 70, 437-445.	1.6	18
23	Model of simultaneous denitrification and methanogenesis in an Upflow Packedâ€Bed Biofilm Reactor: Nitrogen compounds' inhibition and pseudo twoâ€dimensional biofilm model. Journal of Chemical Technology and Biotechnology, 2009, 84, 254-268.	1.6	17
24	Modeling of the denitrification/anaerobic digestion process of salmon fishery wastewater in a biofilm tubular reactor. Journal of Environmental Management, 2011, 92, 1591-1608.	3.8	17
25	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. Journal of Environmental Management, 2012, 101, 82-91.	3.8	17
26	Behavior of the anaerobic treatment of tannery wastewater at different initial pH values and sulfate concentrations. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 1073-1078.	0.9	13
27	Characteristics and Treatment of Wastewater from the Mercaptan Oxidation Process: A Comprehensive Review. Processes, 2020, 8, 425.	1.3	13
28	Valorization of oat husk by hydrothermal carbonization: Optimization of process parameters and anaerobic digestion of spent liquors. Bioresource Technology, 2022, 343, 126112.	4.8	13
29	Anodic Oxidation of Industrial Winery Wastewater Using Different Anodes. Water (Switzerland), 2022, 14, 95.	1.2	13
30	Improvement of nitrate and nitrite reduction rates prediction. Electronic Journal of Biotechnology, 2008, 11, 0-0.	1.2	12
31	Fly ash as stimulant for anaerobic digestion: effect over hydrolytic stage and methane generation rate. Water Science and Technology, 2019, 80, 1384-1391.	1.2	12
32	Effect of the addition of fly ash on the specific methane production and microbial communities in the anaerobic digestion of real winery wastewater. Journal of Chemical Technology and Biotechnology, 2021, 96, 2882-2890.	1.6	11
33	Fly ash from coal combustion as improver of anaerobic digestion: A review. Journal of Environmental Chemical Engineering, 2021, 9, 106422.	3.3	11
34	A new model for including the effect of fly ash on biochemical methane potential. Waste Management, 2017, 68, 232-239.	3.7	10
35	A new model of batch biodrying of sewage sludge, Part 1: Model development and simulations. Drying Technology, 2017, 35, 651-665.	1.7	10
36	Elemental sulfur-based autotrophic denitrification in stoichiometric S0/N ratio: Calibration and validation of a kinetic model. Bioresource Technology, 2020, 307, 123229.	4.8	10

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37	Performance evaluation of micro-aerobic hydrolysis of mixed sludge: Optimum aeration and effect on its biochemical methane potential. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 1269-1277.	0.9	9
38	A new model of batch biodrying of sewage sludge, Part 2: Model calibration and validation. Drying Technology, 2017, 35, 666-679.	1.7	9
39	Modeling of simultaneous denitrification â€“ Anaerobic digestion â€“ Organic matter aerobic oxidation and nitrification in an anoxicâ€“anaerobicâ€“aerobic compact filter reactor. Journal of Biotechnology, 2012, 160, 176-188.	1.9	8
40	Simultaneous C and N removal from saline salmon effluents in filter reactors comprising anoxic-anaerobic-aerobic processes: Effect of recycle ratio. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 584-592.	0.9	8
41	Biological nitrification in the presence of sulfide and organic matter: effect of zeolite on the process in a batch system. Journal of Chemical Technology and Biotechnology, 2018, 93, 2390-2398.	1.6	8
42	Sustainable energy for a winery through biogas production and its utilization: A Chilean case study. Sustainable Energy Technologies and Assessments, 2020, 37, 100640.	1.7	8
43	Kinetics of syntrophic acetogenesis in a saline medium. Journal of Chemical Technology and Biotechnology, 2008, 83, 1433-1440.	1.6	7
44	Microbiological characterization for a new wild strain of Paenibacillus polymyxa with antifungal activity against Botrytis cinerea. Biological Control, 2016, 103, 251-260.	1.4	7
45	Anaerobic digestion of wastewater rich in sulfate and sulfide: effects of metallic waste addition and micro-aeration on process performance and methane production. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 1035-1043.	0.9	7
46	Performance of EGSB reactor using natural zeolite as support for treatment of synthetic swine wastewater. Journal of Environmental Chemical Engineering, 2021, 9, 104922.	3.3	7
47	Nitrification in the presence of sulfide and organic matter in a sequencing moving bed biofilm reactor (SMBBR) with zeolite as biomass carrier. Journal of Chemical Technology and Biotechnology, 2020, 95, 173-182.	1.6	6
48	Biogas production from winery wastewater: Effect of the substrate-inoculum ratio on fly ash addition and iron availability. Journal of Water Process Engineering, 2022, 47, 102826.	2.6	6
49	ORGANIC AND NITROGENOUS MATTER EFFECTS ON THE DENITRIFICATION OF SALINE AND PROTEINâ€RICH EFFLUENTS. Environmental Technology (United Kingdom), 2008, 29, 881-890.	1.2	4
50	Modelling of integrated anoxicâ€“anaerobicâ€“aerobic treatment for salmon fishery wastewater in an upflow fixed-bed biofilm reactor. Environmental Technology (United Kingdom), 2012, 33, 607-622.	1.2	3
51	Modeling of an anoxic/methanogenic biofilm: effect of pH calculation within the biofilm. Bioprocess and Biosystems Engineering, 2013, 36, 1675-1687.	1.7	3
52	Partial Nitrification in a Sequencing Moving Bed Biofilm Reactor (SMBBR) with Zeolite as Biomass Carrier: Effect of Sulfide Pulses and Organic Matter Presence. Water (Switzerland), 2021, 13, 2484.	1.2	3
53	Coupling of Anaerobic Digestion and Struvite Precipitation in the Same Reactor: Effect of Zeolite and Bischofite as Mg2+ Source. Frontiers in Environmental Science, 2021, 9, .	1.5	3
54	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. Journal of Chemical Technology and Biotechnology, 2019, 94, 1509-1519.	1.6	2

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55	Assessment of simultaneous autotrophicâ€“heterotrophic denitrification with high removal of nitrogen, sulfur and carbon: optimization through response surface methodology. Journal of Chemical Technology and Biotechnology, 2020, 95, 631-638.	1.6	2
56	ANAEROBIC DIGESTION OF WASTEWATER WITH HIGH SULFATE CONCENTRATION USING MICRO-AERATION AND NATURAL ZEOLITES. Brazilian Journal of Chemical Engineering, 2016, 33, 743-752.	0.7	2
57	Modeling of the effect of zeolite concentration on the biological nitrification process in the presence of sulfide and organic matter. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 56, 1-12.	0.9	1
58	Sulfur-based mixotrophic denitrification with the stoichiometric S⁰/N ratio and methanol supplementation: effect of the C/N ratio on the process. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2021, 56, 1420-1427.	0.9	1
59	Biodrying of dewatered secondary sludge: behavior of dynamic respiration index (DRI) and energy release under different operating conditions. Journal of Chemical Technology and Biotechnology, 2020, 95, 94-101.	1.6	0
60	Autotrophic and heterotrophic denitrification for simultaneous removal of nitrogen, sulfur and organic matter. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 650-5.	0.9	0