

Josã Rodrigues

List of Publications by Year in descending order

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236833

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1269
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#	ARTICLE	IF	CITATIONS
1	Scale-up and energy estimations of single- and two-stage vinasse anaerobic digestion systems for hydrogen and methane production. <i>Journal of Cleaner Production</i> , 2022, 349, 131459.	4.6	13
2	Reactor start-up strategy as key for high and stable hydrogen production from cheese whey thermophilic dark fermentation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27364-27379.	3.8	34
3	Anaerobic digestion of vinasse in fluidized bed reactors: Process robustness between two-stage thermophilic-thermophilic and thermophilic-mesophilic systems. <i>Journal of Cleaner Production</i> , 2021, 314, 128066.	4.6	34
4	Modelling bioaugmentation: Engineering intervention in anaerobic digestion. <i>Renewable Energy</i> , 2021, 175, 1080-1087.	4.3	10
5	Economic Potential of Bio-Ethylene Production via Oxidative Coupling of Methane in Biogas from Anaerobic Digestion of Industrial Effluents. <i>Processes</i> , 2021, 9, 1613.	1.3	2
6	Enhanced fermentative production of 1,3 propanediol by employing ethanol industry wastewater. <i>Bioresource Technology Reports</i> , 2021, 16, 100865.	1.5	2
7	Biohydrogen and biomethane production from cassava wastewater in a two-stage anaerobic sequencing batch biofilm reactor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5165-5174.	3.8	27
8	Towards the Production of mcl-PHA with Enriched Dominant Monomer Content: Process Development for the Sugarcane Biorefinery Context. <i>Journal of Polymers and the Environment</i> , 2020, 28, 844-853.	2.4	20
9	Anaerobic Sequencing Batch Reactors Co-digesting Whey and Glycerin as a Possible Solution for Small and Mid-size Dairy Industries: Environmental Compliance and Methane Production. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 979-998.	1.4	5
10	Energetic feasibility of a two-stage anaerobic digestion system compared to a single-stage system treating whey and glycerin. <i>Biochemical Engineering Journal</i> , 2020, 161, 107653.	1.8	20
11	Methane Production by Co-Digesting Vinasse and Whey in an AnSBBR: Effect of Mixture Ratio and Feed Strategy. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 28-46.	1.4	25
12	Biomethane production by thermophilic co-digestion of sugarcane vinasse and whey in an AnSBBR: Effects of composition, organic load, feed strategy and temperature. <i>Journal of Environmental Management</i> , 2019, 251, 109606.	3.8	23
13	Viability of Using Glycerin as a Co-substrate in Anaerobic Digestion of Sugarcane Stillage (Vinasse): Effect of Diversified Operational Strategies. <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 720-740.	1.4	19
14	Improvement of Sugarcane Stillage (Vinasse) Anaerobic Digestion with Cheese Whey as its Co-substrate: Achieving High Methane Productivity and Yield. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 987-1006.	1.4	20
15	Effects of the Organic Loading Rate on Polyhydroxyalkanoate Production from Sugarcane Stillage by Mixed Microbial Cultures. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 1039-1055.	1.4	26
16	Impact of operational conditions on development of the hydrogen-producing microbial consortium in an AnSBBR from cassava wastewater rich in lactic acid. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1474-1482.	3.8	29
17	Calibration of ADM1 using the Monte Carlo Markov Chain for modeling of anaerobic biodigestion of sugarcane vinasse in an AnSBBR. <i>Chemical Engineering Research and Design</i> , 2019, 141, 425-435.	2.7	11
18	THERMOPHILIC BIOMETHANE PRODUCTION BY VINASSE IN AN AnSBBR: START-UP STRATEGY AND PERFORMANCE OPTIMIZATION. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 717-731.	0.7	10

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19	Biomethane generation in an AnSBBR treating effluent from the biohydrogen production from vinasse: Optimization, metabolic pathways modeling and scale-up estimation. <i>Renewable Energy</i> , 2018, 116, 288-298.	4.3	20
20	Feasibility of biohydrogen production by co-digestion of vinasse (sugarcane stillage) and molasses in an AnSBBR. <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 27-41.	0.7	12
21	Biomass growth and its mobility in an AnSBBR treating landfill leachate. <i>Waste Management</i> , 2018, 82, 37-50.	3.7	13
22	Hydrogen production by co-digesting cheese whey and glycerin in an AnSBBR: Temperature effect. <i>Biochemical Engineering Journal</i> , 2018, 138, 81-90.	1.8	21
23	Design study of an AnSBBR for hydrogen production by co-digestion of whey with glycerin: Interaction effects of organic load, cycle time and feed strategy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9567-9576.	3.8	10
24	Biohydrogen production by co-digesting whey and glycerin in an AnSBBR: Performance optimization, metabolic pathway kinetic modeling and phylogenetic characterization. <i>Biochemical Engineering Journal</i> , 2017, 128, 93-105.	1.8	17
25	In-situ biogas upgrading process: Modeling and simulations aspects. <i>Bioresource Technology</i> , 2017, 245, 332-341.	4.8	39
26	AnSBBR applied to biomethane production for vinasse treatment: effects of organic loading, feed strategy and temperature. <i>Brazilian Journal of Chemical Engineering</i> , 2017, 34, 759-773.	0.7	15
27	ANAEROBIC MODELING FOR IMPROVING SYNERGY AND ROBUSTNESS OF A MANURE CO-DIGESTION PROCESS. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 871-883.	0.7	13
28	Optimization, metabolic pathways modeling and scale-up estimative of an AnSBBR applied to biohydrogen production by co-digestion of vinasse and molasses. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20473-20484.	3.8	41
29	Co-digestion of Whey with Glycerin in an AnSBBR for Biomethane Production. <i>Applied Biochemistry and Biotechnology</i> , 2016, 178, 126-143.	1.4	33
30	Optimization performance of an AnSBBR applied to biohydrogen production treating whey. <i>Journal of Environmental Management</i> , 2016, 169, 191-201.	3.8	23
31	Anaerobic Biological Treatment of Vinasse for Environmental Compliance and Methane Production. <i>Applied Biochemistry and Biotechnology</i> , 2016, 178, 21-43.	1.4	31
32	BIOHYDROGEN FROM CHEESE WHEY TREATMENT IN AN AnSBBR: ACHIEVING PROCESS STABILITY. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 397-408.	0.7	15
33	Influence of Organic Load on Biohydrogen Production in an AnSBBR Treating Glucose-Based Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 796-816.	1.4	3
34	Biohydrogen Production in an AnSBBR Treating Glycerin-Based Wastewater: Effects of Organic Loading, Influent Concentration, and Cycle Time. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 1892-1914.	1.4	17
35	The effect of organic load and feed strategy on biohydrogen production in an AnSBBR treating glycerin-based wastewater. <i>Journal of Environmental Management</i> , 2015, 154, 128-137.	3.8	24
36	AnSBBR with circulation applied to biohydrogen production treating sucrose based wastewater: effects of organic loading, influent concentration and cycle length. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 659-674.	0.7	3

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37	Effect of Organic Loading Rate and Fill Time on the Biohydrogen Production in a Mechanically Stirred AnSBBR Treating Synthetic Sucrose-Based Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2326-2349.	1.4	9
38	Biomethane Production in an AnSBBR Treating Wastewater from Biohydrogen Process. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1873-1896.	1.4	8
39	Innovative anaerobic bioreactor with fixed-structured bed (ABFSB) for simultaneous sulfate reduction and organic matter removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1044-1050.	1.6	62
40	Continuous anaerobic bioreactor with a fixed-structure bed (ABFSB) for wastewater treatment with low solids and low applied organic loading content. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1361-1368.	1.7	43
41	First-order kinetics of landfill leachate treatment in a pilot-scale anaerobic sequence batch biofilm reactor. <i>Journal of Environmental Management</i> , 2014, 145, 385-393.	3.8	31
42	Anaerobic Treatment of Industrial Biodiesel Wastewater by an ASBR for Methane Production. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 105-118.	1.4	15
43	Effects of Organic Loading, Influent Concentration, and Feed Time on Biohydrogen Production in a Mechanically Stirred AnSBBR Treating Sucrose-Based Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 1832-1854.	1.4	27
44	Effect of Feed Strategy on Methane Production and Performance of an AnSBBR Treating Effluent from Biodiesel Production. <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 2007-2029.	1.4	37
45	Toxic effects of cadmium (Cd ²⁺) on anaerobic biomass: Kinetic and metabolic implications. <i>Journal of Environmental Management</i> , 2012, 106, 75-84.	3.8	24
46	Temperature and feed strategy effects on sulfate and organic matter removal in an AnSBB. <i>Journal of Environmental Management</i> , 2011, 92, 1714-1723.	3.8	8
47	Effect of impeller type and stirring frequency on the behavior of an AnSBBR in the treatment of low-strength wastewater. <i>Bioresource Technology</i> , 2011, 102, 889-893.	4.8	12
48	AnSBBR Applied to a Personal Care Industry Wastewater Treatment: Effects of Fill Time, Volume Treated Per Cycle, and Organic Load. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 127-142.	1.4	9
49	Effect of Organic Load on the Performance and Methane Production of an AnSBBR Treating Effluent from Biodiesel Production. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 347-368.	1.4	26
50	Effect of Fill Time on the Performance of Pilot-scale ASBR and AnSBBR Applied to Sanitary Wastewater Treatment. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 885-899.	1.4	6
51	AnSBBR Applied to the Treatment of Metalworking Fluid Wastewater: Effect of Organic and Shock Load. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1708-1724.	1.4	12
52	ASBR Applied to the Treatment of Biodiesel Production Effluent: Effect of Organic Load and Fill Time on Performance and Methane Production. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 2365-2380.	1.4	19
53	Effect of impeller type and agitation on the performance of pilot scale ASBR and AnSBBR applied to sanitary wastewater treatment. <i>Journal of Environmental Management</i> , 2010, 91, 1647-1656.	3.8	10
54	Effect of feeding strategy and COD/sulfate ratio on the removal of sulfate in an AnSBBR with recirculation of the liquid phase. <i>Journal of Environmental Management</i> , 2010, 91, 1756-1765.	3.8	17

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55	Interaction effects of organic load and cycle time in an AsBr applied to a personal care industry wastewater treatment. <i>Journal of Environmental Management</i> , 2010, 91, 2499-2504.	3.8	10
56	Influence of feed time and sulfate load on the organic and sulfate removal in an ASBR. <i>Bioresource Technology</i> , 2010, 101, 6642-6650.	4.8	23
57	Effects of Feed Time, Organic Loading and Shock Loads in Anaerobic Whey Treatment by an AnSBBR with Circulation. <i>Applied Biochemistry and Biotechnology</i> , 2009, 157, 140-158.	1.4	14
58	AnSBBR Applied to Organic Matter and Sulfate Removal: Interaction Effect Between Feed Strategy and Cod/Sulfate Ratio. <i>Applied Biochemistry and Biotechnology</i> , 2009, 159, 95-109.	1.4	18
59	Effect of impeller type and mechanical agitation on the mass transfer and power consumption aspects of ASBR operation treating synthetic wastewater. <i>Journal of Environmental Management</i> , 2009, 90, 1357-1364.	3.8	26
60	AnSBBR applied to the treatment of wastewater from a personal care industry: Effect of organic load and fill time. <i>Journal of Environmental Management</i> , 2009, 90, 3070-3081.	3.8	25
61	Effects of temperature at different organic loading levels on the performance of a fluidized-bed anaerobic sequencing batch bioreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 789-796.	1.8	22
62	Feasibility of nitrification/denitrification in a sequencing batch biofilm reactor with liquid circulation applied to post-treatment. <i>Bioresource Technology</i> , 2008, 99, 644-654.	4.8	56
63	Fluidized ASBR treating synthetic wastewater: Effect of recirculation velocity. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 184-191.	1.8	13
64	Anaerobic sequencing batch biofilm reactor applied to automobile industry wastewater treatment: Volumetric loading rate and feed strategy effects. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 1374-1383.	1.8	24
65	Influence of organic shock loads in an ASBBR treating synthetic wastewater with different concentration levels. <i>Bioresource Technology</i> , 2008, 99, 3256-3266.	4.8	15
66	Effect of mixing mode on the behavior of an ASBBR with immobilized biomass in the treatment of cheese whey. <i>Brazilian Journal of Chemical Engineering</i> , 2008, 25, 291-298.	0.7	11
67	Effect of ammonia load on efficiency of nitrogen removal in an SBBR with liquid-phase circulation. <i>Brazilian Journal of Chemical Engineering</i> , 2008, 25, 275-289.	0.7	8
68	Effects of solid-phase mass transfer on the performance of a stirred anaerobic sequencing batch reactor containing immobilized biomass. <i>Bioresource Technology</i> , 2007, 98, 1411-1417.	4.8	17
69	Effects of feeding time and organic loading in an anaerobic sequencing batch biofilm reactor (ASBBR) treating diluted whey. <i>Journal of Environmental Management</i> , 2007, 85, 927-935.	3.8	33
70	Influence of temperature on performance of an anaerobic sequencing biofilm batch reactor with circulation applied to treatment of low-strength wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2007, 136, 193-206.	1.4	3
71	Whey Treatment by AnSBBR with Circulation: Effects of Organic Loading, Shock Loads, and Alkalinity Supplementation. <i>Applied Biochemistry and Biotechnology</i> , 2007, 143, 257-275.	1.4	16
72	Anaerobic whey treatment by a stirred sequencing batch reactor (ASBR): effects of organic loading and supplemented alkalinity. <i>Journal of Environmental Management</i> , 2006, 79, 198-206.	3.8	59

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73	Analysis of Performance of an Anaerobic Sequencing Batch Reactor Submitted to Increasing Organic Load With Different Influent Concentrations and Cycle Lengths. <i>Applied Biochemistry and Biotechnology</i> , 2006, 133, 171-188.	1.4	7
74	Influence of bioparticle size on the degradation of partially soluble wastewater in an anaerobic sequencing batch biofilm reactor (ASBBR). <i>Process Biochemistry</i> , 2005, 40, 3206-3212.	1.8	6
75	Feasibility of treating partially soluble wastewater in anaerobic sequencing batch biofilm reactor (ASBBR) with mechanical stirring. <i>Bioresource Technology</i> , 2005, 96, 517-519.	4.8	12
76	Feasibility of Treating Swine Manure in an Anaerobic Sequencing Batch Biofilm Reactor With Mechanical Stirring. <i>Applied Biochemistry and Biotechnology</i> , 2005, 120, 109-120.	1.4	6
77	Performance of Anaerobic Sequencing Batch Biofilm Reactor Submitted to Different Influent Volume Feeds and Cycle Time Periods Maintaining Organic Loading. <i>Applied Biochemistry and Biotechnology</i> , 2005, 126, 189-204.	1.4	3
78	A simplified analysis of granule behavior in ASBR and UASB reactors treating low-strength synthetic wastewater. <i>Brazilian Journal of Chemical Engineering</i> , 2005, 22, 361-369.	0.7	8
79	Treatment of easily degradable wastewater in a stirred anaerobic sequencing batch biofilm reactor. <i>Water Research</i> , 2005, 39, 2376-2384.	5.3	15
80	Effects of feeding strategies on the performance of an anaerobic discontinuous reactor containing immobilized biomass with circulation system for liquid-phase mixing. <i>Water Science and Technology</i> , 2004, 49, 303-310.	1.2	10
81	Stirred anaerobic sequencing batch reactor containing immobilized biomass: a behavior study when submitted to different fill times. <i>Water Science and Technology</i> , 2004, 49, 311-318.	1.2	6
82	Enhancement of the performance of an anaerobic sequencing batch reactor treating low-strength wastewater through implementation of a variable stirring rate program. <i>Brazilian Journal of Chemical Engineering</i> , 2004, 21, 423-434.	0.7	31
83	Influence of liquid-phase mass transfer on the performance of a stirred anaerobic sequencing batch reactor containing immobilized biomass. <i>Biochemical Engineering Journal</i> , 2004, 17, 99-105.	1.8	28
84	Influence of organic loading on an anaerobic sequencing biofilm batch reactor (ASBBR) as a function of cycle period and wastewater concentration. <i>Journal of Environmental Management</i> , 2004, 72, 241-247.	3.8	19
85	Influence of the agitation rate on the treatment of partially soluble wastewater in anaerobic sequencing batch biofilm reactor. <i>Water Research</i> , 2004, 38, 4117-4124.	5.3	30
86	Fed-batch and batch operating mode analysis of a stirred anaerobic sequencing reactor with self-immobilized biomass treating low-strength wastewater. <i>Journal of Environmental Management</i> , 2003, 69, 193-200.	3.8	18
87	Effect of feeding strategy on a stirred anaerobic sequencing fed-batch reactor containing immobilized biomass. <i>Bioresource Technology</i> , 2003, 90, 199-205.	4.8	28
88	Influence of agitation rate on the performance of an anaerobic sequencing batch reactor containing granulated biomass treating low-strength wastewater. <i>Journal of Environmental Management</i> , 2003, 7, 405-410.	1.7	45
89	Operating feasibility of anaerobic whey treatment in a stirred sequencing batch reactor containing immobilized biomass. <i>Water Science and Technology</i> , 2003, 48, 179-186.	1.2	49
90	Treatment of low-strength wastewater using immobilized biomass in a sequencing batch external loop reactor: influence of the medium superficial velocity on the stability and performance. <i>Brazilian Journal of Chemical Engineering</i> , 2002, 19, 267-275.	0.7	34

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91	A tuned approach of the predictive adaptive GPC controller applied to a fed-batch bioreactor using complete factorial design. Computers and Chemical Engineering, 2002, 26, 1493-1500.	2.0	16
92	Anaerobic sequencing batch reactors for wastewater treatment: a developing technology. Applied Microbiology and Biotechnology, 2001, 55, 29-35.	1.7	99
93	External and internal mass transfer effects in an anaerobic fixed-bed reactor for wastewater treatment. Process Biochemistry, 2000, 35, 943-949.	1.8	24
94	Feasibility of a stirred anaerobic sequencing batch reactor containing immobilized biomass for wastewater treatment. Bioresource Technology, 2000, 75, 127-132.	4.8	67
95	Application of a novel approach for DMC predictive controller design by response surface analysis in a fed-batch bioreactor. Computers and Chemical Engineering, 1999, 23, S293-S296.	2.0	3
96	Production optimization with operating constraints for a fed-batch reactor with DMC predictive control. Chemical Engineering Science, 1999, 54, 2745-2751.	1.9	13
97	STATE ESTIMATION AND PARAMETER IDENTIFICATION IN A FED-BATCH PENICILLIN PRODUCTION PROCESS. Brazilian Journal of Chemical Engineering, 1999, 16, 41-52.	0.7	3
98	Optimal feed rates strategies with operating constraints for the penicillin production process. Chemical Engineering Science, 1996, 51, 2859-2864.	1.9	15