

Marcelo Zaiat

List of Publications by Year in descending order

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300
papers

8,934
citations

41323

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74108

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304
all docs

304
docs citations

304
times ranked

5299
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic digestion of vinasse from sugarcane ethanol production in Brazil: Challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 888-903.	8.2	319
2	Anaerobic digestion of vinasse from sugarcane biorefineries in Brazil from energy, environmental, and economic perspectives: Profit or expense?. <i>Applied Energy</i> , 2014, 113, 825-835.	5.1	238
3	Influence of seed sludge and pretreatment method on hydrogen production in packed-bed anaerobic reactors. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6137-6145.	3.8	177
4	Hydrogen production in an upflow anaerobic packed bed reactor used to treat cheese whey. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 54-62.	3.8	163
5	Thermophilic two-phase anaerobic digestion using an innovative fixed-bed reactor for enhanced organic matter removal and bioenergy recovery from sugarcane vinasse. <i>Applied Energy</i> , 2017, 189, 480-491.	5.1	153
6	Anaerobic Processes as the Core Technology for Sustainable Domestic Wastewater Treatment: Consolidated Applications, New Trends, Perspectives, and Challenges. <i>Reviews in Environmental Science and Biotechnology</i> , 2006, 5, 3-19.	3.9	145
7	Sulphate removal from industrial wastewater using a packed-bed anaerobic reactor. <i>Process Biochemistry</i> , 2002, 37, 927-935.	1.8	143
8	Thermophilic anaerobic digestion of raw sugarcane vinasse. <i>Renewable Energy</i> , 2016, 89, 245-252.	4.3	139
9	Stability problems in the hydrogen production by dark fermentation: Possible causes and solutions. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109602.	8.2	137
10	Influence of carbon sources and C/N ratio on EPS production in anaerobic sequencing batch biofilm reactors for wastewater treatment. <i>Bioresource Technology</i> , 2010, 101, 1324-1330.	4.8	136
11	Application of an anaerobic packed-bed bioreactor for the production of hydrogen and organic acids. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 579-586.	3.8	120
12	Effect of organic loading rate on hydrogen production from sugarcane vinasse in thermophilic acidogenic packed bed reactors. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16852-16862.	3.8	115
13	Microbial electrosynthesis (MES) from CO ₂ is resilient to fluctuations in renewable energy supply. <i>Energy Conversion and Management</i> , 2018, 177, 272-279.	4.4	110
14	The use of the carbon/nitrogen ratio and specific organic loading rate as tools for improving biohydrogen production in fixed-bed reactors. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 5, 46-54.	2.1	106
15	Temporal dynamics and metabolic correlation between lactate-producing and hydrogen-producing bacteria in sugarcane vinasse dark fermentation: The key role of lactate. <i>Bioresource Technology</i> , 2018, 247, 426-433.	4.8	104
16	Potential to produce biohydrogen from various wastewaters. <i>Energy for Sustainable Development</i> , 2010, 14, 143-148.	2.0	103
17	Anaerobic sequencing batch reactors for wastewater treatment: a developing technology. <i>Applied Microbiology and Biotechnology</i> , 2001, 55, 29-35.	1.7	99
18	Seasonal characterization of sugarcane vinasse: Assessing environmental impacts from fertirrigation and the bioenergy recovery potential through biodigestion. <i>Science of the Total Environment</i> , 2018, 634, 29-40.	3.9	95

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19	Long-term operating performance of a poultry slaughterhouse wastewater treatment plant. <i>Resources, Conservation and Recycling</i> , 2007, 50, 102-114.	5.3	92
20	Formaldehyde degradation in an anaerobic packed-bed bioreactor. <i>Water Research</i> , 2004, 38, 1685-1694.	5.3	91
21	Hydrogen production from soft-drink wastewater in an upflow anaerobic packed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8953-8966.	3.8	91
22	Mesophilic hydrogen production in acidogenic packed-bed reactors (APBR) using raw sugarcane vinasse as substrate: Influence of support materials. <i>Anaerobe</i> , 2015, 34, 94-105.	1.0	90
23	Operational strategies for long-term biohydrogen production from sugarcane stillage in a continuous acidogenic packed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8132-8145.	3.8	90
24	Novel insights on the versatility of biohydrogen production from sugarcane vinasse via thermophilic dark fermentation: Impacts of pH-driven operating strategies on acidogenesis metabolite profiles. <i>Bioresource Technology</i> , 2019, 286, 121379.	4.8	89
25	High organic loading rate on thermophilic hydrogen production and metagenomic study at an anaerobic packed-bed reactor treating a residual liquid stream of a Brazilian biorefinery. <i>Bioresource Technology</i> , 2015, 186, 81-88.	4.8	88
26	Evaluation of support materials for the immobilization of sulfate-reducing bacteria and methanogenic archaea. <i>Anaerobe</i> , 2006, 12, 93-98.	1.0	87
27	Effect of the electric supply interruption on a microbial electrosynthesis system converting inorganic carbon into acetate. <i>Bioresource Technology</i> , 2018, 266, 203-210.	4.8	84
28	Unraveling the influence of the COD/sulfate ratio on organic matter removal and methane production from the biodigestion of sugarcane vinasse. <i>Bioresource Technology</i> , 2017, 232, 103-112.	4.8	83
29	Microbial communities from 20 different hydrogen-producing reactors studied by 454 pyrosequencing. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3371-3384.	1.7	81
30	Diversifying the technological strategies for recovering bioenergy from the two-phase anaerobic digestion of sugarcane vinasse: An integrated techno-economic and environmental approach. <i>Renewable Energy</i> , 2018, 122, 674-687.	4.3	70
31	Feasibility of a stirred anaerobic sequencing batch reactor containing immobilized biomass for wastewater treatment. <i>Bioresource Technology</i> , 2000, 75, 127-132.	4.8	67
32	Designing full-scale biodigestion plants for the treatment of vinasse in sugarcane biorefineries: How phase separation and alkalization impact biogas and electricity production costs?. <i>Chemical Engineering Research and Design</i> , 2017, 119, 209-220.	2.7	66
33	Influence of porosity and composition of supports on the methanogenic biofilm characteristics developed in a fixed bed anaerobic reactor. <i>Water Science and Technology</i> , 2001, 44, 197-204.	1.2	64
34	Comparison of the use of sucrose and glucose as a substrate for hydrogen production in an upflow anaerobic fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15074-15083.	3.8	64
35	Improvement of hydrogen production via ethanol-type fermentation in an anaerobic down-flow structured bed reactor. <i>Bioresource Technology</i> , 2016, 202, 42-49.	4.8	63
36	Bacteriocins of lactic acid bacteria as a hindering factor for biohydrogen production from cassava flour wastewater in a continuous multiple tube reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8120-8131.	3.8	63

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37	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
38	Anaerobic treatment of sulfate-rich wastewater in an anaerobic sequential batch reactor (AnSBR) using butanol as the carbon source. <i>Journal of Environmental Management</i> , 2011, 92, 1537-1541.	3.8	60
39	Hydrogen and Methane Production, Energy Recovery, and Organic Matter Removal from Effluents in a Two-Stage Fermentative Process. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 651-671.	1.4	60
40	Biogas production within the bioethanol production chain: Use of co-substrates for anaerobic digestion of sugar beet vinasse. <i>Bioresource Technology</i> , 2015, 190, 227-234.	4.8	60
41	Influence of multiple substrates on anaerobic protein degradation in a packed-bed bioreactor. <i>Water Science and Technology</i> , 2003, 48, 23-31.	1.2	59
42	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
43	Microbial colonization of polyurethane foam matrices in horizontal-flow anaerobic immobilized-sludge reactor. <i>Applied Microbiology and Biotechnology</i> , 1997, 48, 534-538.	1.7	58
44	Biohydrogen production at pH below 3.0: Is it possible?. <i>Water Research</i> , 2018, 128, 350-361.	5.3	58
45	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
46	The influence of the degree of back-mixing on hydrogen production in an anaerobic fixed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9630-9635.	3.8	55
47	Reduction in greenhouse gas emissions from vinasse through anaerobic digestion. <i>Applied Energy</i> , 2017, 189, 21-30.	5.1	55
48	Economics of anaerobic digestion for processing sugarcane vinasse: Applying sensitivity analysis to increase process profitability in diversified biogas applications. <i>Chemical Engineering Research and Design</i> , 2018, 115, 27-37.	2.7	55
49	Dark fermentative biohydrogen production from synthetic cheese whey in an anaerobic structured-bed reactor: Performance evaluation and kinetic modeling. <i>Renewable Energy</i> , 2019, 139, 1310-1319.	4.3	54
50	Comparison of Methanol, Ethanol, and Methane as Electron Donors for Denitrification. <i>Environmental Engineering Science</i> , 2004, 21, 313-320.	0.8	52
51	Performance and molecular evaluation of an anaerobic system with suspended biomass for treating wastewater with high fat content after enzymatic hydrolysis. <i>Bioresource Technology</i> , 2009, 100, 6170-6176.	4.8	51
52	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
53	Granules characteristics in the vertical profile of a full-scale upflow anaerobic sludge blanket reactor treating poultry slaughterhouse wastewater. <i>Bioresource Technology</i> , 2008, 99, 2018-2024.	4.8	46
54	Impact of organic loading rate on biohydrogen production in an up-flow anaerobic packed bed reactor (UAnPBR). <i>Bioresource Technology</i> , 2014, 164, 371-379.	4.8	46

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55	Influence of sludge age on the performance of MFC treating winery wastewater. <i>Chemosphere</i> , 2016, 151, 163-170.	4.2	46
56	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
57	The Effect of Biomass Immobilization Support Material and Bed Porosity on Hydrogen Production in an Upflow Anaerobic Packed-Bed Bioreactor. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1348-1366.	1.4	45
58	Influence of the tracer characteristics on hydrodynamic models of packed-bed bioreactors. <i>Bioprocess and Biosystems Engineering</i> , 1999, 21, 469.	0.5	43
59	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
60	Optimization of biomass and hydrogen production by <i>Anabaena</i> sp. (UTEX 1448) in nitrogen-deprived cultures. <i>Biomass and Bioenergy</i> , 2018, 111, 70-76.	2.9	43
61	Influence of organic loading rate on ciprofloxacin and sulfamethoxazole biodegradation in anaerobic fixed bed biofilm reactors. <i>Journal of Environmental Management</i> , 2020, 273, 111170.	3.8	43
62	Energy recovery from winery wastewater using a dual chamber microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1802-1808.	1.6	42
63	Acidic and thermal pre-treatments for anaerobic digestion inoculum to improve hydrogen and volatile fatty acid production using xylose as the substrate. <i>Renewable Energy</i> , 2020, 145, 1388-1398.	4.3	42
64	Acidogenesis is a key step in the anaerobic biotransformation of organic micropollutants. <i>Journal of Hazardous Materials</i> , 2020, 389, 121888.	6.5	42
65	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
66	Evaluation of sulfamethazine sorption and biodegradation by anaerobic granular sludge using batch experiments. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 115-124.	1.7	41
67	Phenol degradation in horizontal-flow anaerobic immobilized biomass (HAIB) reactor under mesophilic conditions. <i>Water Science and Technology</i> , 2001, 44, 167-174.	1.2	40
68	Assessment of a UASB reactor for the removal of sulfate from acid mine water. <i>International Biodeterioration and Biodegradation</i> , 2012, 74, 48-53.	1.9	40
69	Anaerobic packed-bed reactor for bioremediation of gasoline-contaminated aquifers. <i>Process Biochemistry</i> , 2005, 40, 587-592.	1.8	39
70	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
71	Extreme thermophilic condition: An alternative for long-term biohydrogen production from sugarcane vinasse. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22876-22887.	3.8	37
72	The application of an innovative continuous multiple tube reactor as a strategy to control the specific organic loading rate for biohydrogen production by dark fermentation. <i>Bioresource Technology</i> , 2015, 197, 201-207.	4.8	35

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73	Stimulation and inhibition of direct interspecies electron transfer mechanisms within methanogenic reactors by adding magnetite and granular activated carbon. <i>Chemical Engineering Journal</i> , 2021, 415, 128882.	6.6	35
74	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
75	Energy recovery from agro-industrial wastewaters through biohydrogen production: Kinetic evaluation and technological feasibility. <i>Renewable Energy</i> , 2015, 75, 496-504.	4.3	34
76	Optimization of the performance of a microbial fuel cell using the ratio electrode-surface area / anode-compartment volume. <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 141-146.	0.7	34
77	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
78	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
79	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
80	Influence of carbon electrode material on energy recovery from winery wastewater using a dual-chamber microbial fuel cell. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1333-1341.	1.2	33
81	Anaerobic phototrophic processes of hydrogen production by different strains of microalgae <i>Chlamydomonas</i> sp. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	33
82	Feasibility of anaerobic packed and structured-bed reactors for sulfamethoxazole and ciprofloxacin removal from domestic sewage. <i>Science of the Total Environment</i> , 2019, 678, 419-429.	3.9	32
83	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
84	Anaerobic sequencing batch reactors in pilot-scale for domestic sewage treatment. <i>Desalination</i> , 2007, 216, 174-182.	4.0	31
85	Degradation of formaldehyde in anaerobic sequencing batch biofilm reactor (ASBBR). <i>Journal of Hazardous Materials</i> , 2009, 163, 777-782.	6.5	31
86	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
87	Anaerobic Biological Treatment of Vinasse for Environmental Compliance and Methane Production. <i>Applied Biochemistry and Biotechnology</i> , 2016, 178, 21-43.	1.4	31
88	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
89	Effects of bed materials on the performance of an anaerobic sequencing batch biofilm reactor treating domestic sewage. <i>Journal of Environmental Management</i> , 2008, 88, 1471-1477.	3.8	30
90	Rapid determination of 12 antibiotics and caffeine in sewage and bioreactor effluent by online column-switching liquid chromatography/tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8787-8801.	1.9	30

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91	Metal fractionation in sludge from sewage UASB treatment. <i>Journal of Environmental Management</i> , 2017, 193, 98-107.	3.8	30
92	Enhancing the gas-liquid mass transfer during microbial electrosynthesis by the variation of CO ₂ flow rate. <i>Process Biochemistry</i> , 2021, 101, 50-58.	1.8	30
93	Influence of the liquid-phase mass transfer on the performance of a packed-bed bioreactor for wastewater treatment. <i>Bioresource Technology</i> , 2001, 78, 231-238.	4.8	29
94	A novel anaerobic down-flow structured-bed reactor for long-term stable H ₂ energy production from wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1551-1561.	1.6	29
95	Anaerobic Digestion of Sugarcane Vinasse Through a Methanogenic UASB Reactor Followed by a Packed Bed Reactor. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1127-1145.	1.4	29
96	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
97	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
98	The performance of an anaerobic sequencing batch biofilm reactor treating domestic sewage colonized by anoxygenic phototrophic bacteria. <i>Chemosphere</i> , 2006, 62, 1437-1443.	4.2	28
99	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
100	Does sugarcane vinasse composition variability affect the bioenergy yield in anaerobic systems? A dual kinetic-energetic assessment. <i>Journal of Cleaner Production</i> , 2019, 240, 118005.	4.6	27
101	Influence of agitation rate on the performance of a stirred anaerobic sequencing batch reactor containing immobilized biomass. <i>Water Science and Technology</i> , 2001, 44, 305-312.	1.2	26
102	Morphological study of biomass during the start-up period of a fixed-bed anaerobic reactor treating domestic sewage. <i>Brazilian Archives of Biology and Technology</i> , 2005, 48, 841-849.	0.5	26
103	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
104	Pentachlorophenol (PCP) dechlorination in horizontal-flow anaerobic immobilized biomass (HAIB) reactors. <i>Bioresource Technology</i> , 2009, 100, 4361-4367.	4.8	26
105	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
106	On the Effects of Ferricyanide as Cathodic Mediator on the Performance of Microbial Fuel Cells. <i>Electrocatalysis</i> , 2017, 8, 59-66.	1.5	26
107	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
108	Spatial and temporal variations of monitoring performance parameters in horizontal-flow anaerobic immobilized sludge (HAIS) reactor treating synthetic substrate. <i>Water Research</i> , 1997, 31, 1760-1766.	5.3	25

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109	Influence of the carbon source on the anaerobic biomass adhesion on polyurethane foam matrices. <i>Journal of Environmental Management</i> , 2005, 74, 187-194.	3.8	25
110	Ethanol and toluene removal in a horizontal-flow anaerobic immobilized biomass reactor in the presence of sulfate. <i>Biotechnology and Bioengineering</i> , 2005, 91, 244-253.	1.7	25
111	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
112	Full details on continuous biohydrogen production from sugarcane molasses are unraveled: Performance optimization, self-regulation, metabolic correlations and quanti-qualitative biomass characterization. <i>Chemical Engineering Journal</i> , 2021, 414, 128934.	6.6	25
113	External and internal mass transfer effects in an anaerobic fixed-bed reactor for wastewater treatment. <i>Process Biochemistry</i> , 2000, 35, 943-949.	1.8	24
114	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
115	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
116	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
117	COMBINED TREATMENT OF VINASSE BY AN UPFLOW ANAEROBIC FILTER-REACTOR AND OZONATION PROCESS. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 753-762.	0.7	24
118	Removal of the veterinary antimicrobial sulfamethazine in a horizontal-flow anaerobic immobilized biomass (HAIB) reactor subjected to step changes in the applied organic loading rate. <i>Journal of Environmental Management</i> , 2017, 204, 674-683.	3.8	24
119	New operational mode of an electrochemical reactor and its application to the degradation of levofloxacin. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4441-4446.	3.3	24
120	Molasses vs. juice: Maximizing biohydrogen production in sugarcane biorefineries to diversify renewable energy generation. <i>Journal of Water Process Engineering</i> , 2020, 37, 101534.	2.6	24
121	Cell wash-out and external mass transfer resistance in horizontal-flow anaerobic immobilized sludge reactor. <i>Water Research</i> , 1996, 30, 2435-2439.	5.3	23
122	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
123	Optimization performance of an AnSBBR applied to biohydrogen production treating whey. <i>Journal of Environmental Management</i> , 2016, 169, 191-201.	3.8	23
124	Calcium dosing for the simultaneous control of biomass retention and the enhancement of fermentative biohydrogen production in an innovative fixed-film bioreactor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12181-12196.	3.8	23
125	A standardized biohydrogen potential protocol: An international round robin test approach. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26237-26247.	3.8	23
126	Thermophilic biodigestion of fermented sugarcane molasses in high-rate structured-bed reactors: Alkalinization strategies define the operating limits. <i>Energy Conversion and Management</i> , 2021, 239, 114203.	4.4	23

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127	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
128	Dynamics of sulfate reduction in the thermophilic dark fermentation of sugarcane vinasse: A biohydrogen-independent approach targeting enhanced bioenergy production. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105956.	3.3	22
129	The treatment of sulfate-rich wastewater using an anaerobic sequencing batch biofilm pilot-scale reactor. <i>Desalination</i> , 2009, 249, 241-246.	4.0	21
130	Anaerobic degradation of BTEX in a packed-bed reactor. <i>Water Science and Technology</i> , 2002, 45, 175-180.	1.2	20
131	Performance and stability of an anaerobic fixed bed reactor subjected to progressive increasing concentrations of influent organic matter and organic shock loads. <i>Journal of Environmental Management</i> , 2005, 76, 319-325.	3.8	20
132	Thermophilic biohydrogen production using a UASB reactor: performance during long-term operation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 967-976.	1.6	20
133	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
134	Liquid-phase mass transfer in fixed-bed of polyurethane foam matrices containing immobilized anaerobic sludge. <i>Biotechnology Letters</i> , 1996, 10, 121-126.	0.5	19
135	A mathematical model and criteria for designing horizontal-flow anaerobic immobilized biomass reactors for wastewater treatment. <i>Bioresource Technology</i> , 2000, 71, 235-243.	4.8	19
136	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
137	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
138	Removal kinetics of sulfamethazine and its transformation products formed during treatment using a horizontal flow-anaerobic immobilized biomass bioreactor. <i>Journal of Hazardous Materials</i> , 2019, 365, 34-43.	6.5	19
139	Modelling sugarcane vinasse processing in an acidogenic reactor to produce hydrogen with an ADM1-based model. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6217-6230.	3.8	19
140	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
141	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
142	Sulfamethoxazole and ciprofloxacin removal using a horizontal-flow anaerobic immobilized biomass reactor. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 847-853.	1.2	18
143	High value added lipids produced by microorganisms: a potential use of sugarcane vinasse. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 1048-1061.	5.1	18
144	Biogas sequestration from the headspace of a fermentative system enhances hydrogen production rate and yield. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11011-11023.	3.8	18

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145	Rational Basis for Designing Horizontal-Flow Anaerobic Immobilized Sludge (HAIS) Reactor for Wastewater Treatment. Brazilian Journal of Chemical Engineering, 1997, 14, 1-8.	0.7	18
146	Development and evaluation of a radial anaerobic/aerobic reactor treating organic matter and nitrogen in sewage. Brazilian Journal of Chemical Engineering, 2005, 22, 511-519.	0.7	17
147	Effects of solid-phase mass transfer on the performance of a stirred anaerobic sequencing batch reactor containing immobilized biomass. Bioresource Technology, 2007, 98, 1411-1417.	4.8	17
148	Effect of feeding strategy and COD/sulfate ratio on the removal of sulfate in an AnSBBR with recirculation of the liquid phase. Journal of Environmental Management, 2010, 91, 1756-1765.	3.8	17
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