

Marcelo Zaiat

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304
ext. papers

7,708
ext. citations

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L-index

#	Paper	IF	Citations
292	Anaerobic digestion of vinasse from sugarcane ethanol production in Brazil: Challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 44, 888-903	16.2	237
291	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	10.7	179
290	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	6.7	144
289	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	6.7	132
288	Sulphate removal from industrial wastewater using a packed-bed anaerobic reactor. <i>Process Biochemistry</i> , 2002 , 37, 927-935	4.8	130
287	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	13.9	117
286	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, 1324-30	11	116
285	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, 480-497	18.7	109
284	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	6.7	102
283	Thermophilic anaerobic digestion of raw sugarcane vinasse. <i>Renewable Energy</i> , 2016 , 89, 245-252	8.1	101
282	Potential to produce biohydrogen from various wastewaters. <i>Energy for Sustainable Development</i> , 2010 , 14, 143-148	5.4	88
281	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	6.7	87
280	Anaerobic sequencing batch reactors for wastewater treatment: a developing technology. <i>Applied Microbiology and Biotechnology</i> , 2001 , 55, 29-35	5.7	87
279	Microbial electrosynthesis (MES) from CO ₂ is resilient to fluctuations in renewable energy supply. <i>Energy Conversion and Management</i> , 2018 , 177, 272-279	10.6	85
278	Formaldehyde degradation in an anaerobic packed-bed bioreactor. <i>Water Research</i> , 2004 , 38, 1685-94	12.5	84
277	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	5.3	78
276	Hydrogen production from soft-drink wastewater in an upflow anaerobic packed-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8953-8966	6.7	76

275	Long-term operating performance of a poultry slaughterhouse wastewater treatment plant. <i>Resources, Conservation and Recycling</i> , 2007 , 50, 102-114	11.9	75
274	Evaluation of support materials for the immobilization of sulfate-reducing bacteria and methanogenic archaea. <i>Anaerobe</i> , 2006 , 12, 93-8	2.8	75
273	Effect of the electric supply interruption on a microbial electrosynthesis system converting inorganic carbon into acetate. <i>Bioresource Technology</i> , 2018 , 266, 203-210	11	69
272	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	11	63
271	Feasibility of a stirred anaerobic sequencing batch reactor containing immobilized biomass for wastewater treatment. <i>Bioresource Technology</i> , 2000 , 75, 127-132	11	59
270	Influence of multiple substrates on anaerobic protein degradation in a packed-bed bioreactor. <i>Water Science and Technology</i> , 2003 , 48, 23-31	2.2	58
269	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	2.2	58
268	Stability problems in the hydrogen production by dark fermentation: Possible causes and solutions. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109602	16.2	58
267	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	2.8	57
266	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	10.2	56
265	Microbial communities from 20 different hydrogen-producing reactors studied by 454 pyrosequencing. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3371-84	5.7	56
264	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	11	55
263	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	11	53
262	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	6.7	53
261	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	2.5	51
260	Microbial colonization of polyurethane foam matrices in horizontal-flow anaerobic immobilized-sludge reactor. <i>Applied Microbiology and Biotechnology</i> , 1997 , 48, 534-538	5.7	51
259	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	6.7	50
258	Biogas production within the bioethanol production chain: Use of co-substrates for anaerobic digestion of sugar beet vinasse. <i>Bioresource Technology</i> , 2015 , 190, 227-34	11	49

257	Feasibility of nitrification/denitrification in a sequencing batch biofilm reactor with liquid circulation applied to post-treatment. <i>Bioresource Technology</i> , 2008 , 99, 644-54	11	48
256	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	5.5	47
255	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	6.7	47
254	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	7.9	47
253	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, 1537-41	7.9	46
252	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	8.1	45
251	Improvement of hydrogen production via ethanol-type fermentation in an anaerobic down-flow structured bed reactor. <i>Bioresource Technology</i> , 2016 , 202, 42-9	11	44
250	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, 651-71	3.2	44
249	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	2.2	44
248	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	6.7	43
247	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		43
246	Comparison of Methanol, Ethanol, and Methane as Electron Donors for Denitrification. <i>Environmental Engineering Science</i> , 2004 , 21, 313-320	2	42
245	Reduction in greenhouse gas emissions from vinasse through anaerobic digestion. <i>Applied Energy</i> , 2017 , 189, 21-30	10.7	41
244	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	11	40
243	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, 6170-6	11	40
242	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, 2018-24	11	39
241	Influence of the tracer characteristics on hydrodynamic models of packed-bed bioreactors. <i>Bioprocess and Biosystems Engineering</i> , 1999 , 21, 469		39
240	Biohydrogen production at pH below 3.0: Is it possible?. <i>Water Research</i> , 2018 , 128, 350-361	12.5	37

239	Anaerobic packed-bed reactor for bioremediation of gasoline-contaminated aquifers. <i>Process Biochemistry</i> , 2005 , 40, 587-592	4.8	36
238	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	5.5	36
237	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, 1348-66	3.2	35
236	Impact of organic loading rate on biohydrogen production in an up-flow anaerobic packed bed reactor (UANPBR). <i>Bioresource Technology</i> , 2014 , 164, 371-9	11	34
235	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, 1361-8	3.7	33
234	Energy recovery from winery wastewater using a dual chamber microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1802-1808	3.5	33
233	Influence of sludge age on the performance of MFC treating winery wastewater. <i>Chemosphere</i> , 2016 , 151, 163-70	8.4	33
232	Evaluation of sulfamethazine sorption and biodegradation by anaerobic granular sludge using batch experiments. <i>Bioprocess and Biosystems Engineering</i> , 2016 , 39, 115-24	3.7	32
231	Phenol degradation in horizontal-flow anaerobic immobilized biomass (HAIB) reactor under mesophilic conditions. <i>Water Science and Technology</i> , 2001 , 44, 167-174	2.2	31
230	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	6.7	30
229	Assessment of a UASB reactor for the removal of sulfate from acid mine water. <i>International Biodeterioration and Biodegradation</i> , 2012 , 74, 48-53	4.8	30
228	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	8.1	29
227	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	1.7	29
226	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	2.6	28
225	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, 927-35	7.9	28
224	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, 8787-801	4.4	27
223	Energy recovery from agro-industrial wastewaters through biohydrogen production: Kinetic evaluation and technological feasibility. <i>Renewable Energy</i> , 2015 , 75, 496-504	8.1	27
222	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, 2007-29	3.2	27

221	Degradation of formaldehyde in anaerobic sequencing batch biofilm reactor (ASBBR). <i>Journal of Hazardous Materials</i> , 2009 , 163, 777-82	12.8	27
220	Anaerobic sequencing batch reactors in pilot-scale for domestic sewage treatment. <i>Desalination</i> , 2007 , 216, 174-182	10.3	27
219	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	4.2	27
218	Influence of the agitation rate on the treatment of partially soluble wastewater in anaerobic sequencing batch biofilm reactor. <i>Water Research</i> , 2004 , 38, 4117-24	12.5	27
217	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	1.7	27
216	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, 201-7	11	26
215	Effect of feeding strategy on a stirred anaerobic sequencing fed-batch reactor containing immobilized biomass. <i>Bioresource Technology</i> , 2003 , 90, 199-205	11	26
214	The performance of an anaerobic sequencing batch biofilm reactor treating domestic sewage colonized by anoxygenic phototrophic bacteria. <i>Chemosphere</i> , 2006 , 62, 1437-43	8.4	25
213	Acidogenesis is a key step in the anaerobic biotransformation of organic micropollutants. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121888	12.8	25
212	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	8.1	25
211	Co-digestion of Whey with Glycerin in an AnSBBR for Biomethane Production. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 126-43	3.2	24
210	Anaerobic Biological Treatment of Vinasse for Environmental Compliance and Methane Production. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 21-43	3.2	24
209	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, 1357-64	7.9	24
208	Pentachlorophenol (PCP) dechlorination in horizontal-flow anaerobic immobilized biomass (HAIB) reactors. <i>Bioresource Technology</i> , 2009 , 100, 4361-7	11	24
207	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, 1471-7	7.9	24
206	Ethanol and toluene removal in a horizontal-flow anaerobic immobilized biomass reactor in the presence of sulfate. <i>Biotechnology and Bioengineering</i> , 2005 , 91, 244-53	4.9	24
205	Influence of the liquid-phase mass transfer on the performance of a packed-bed bioreactor for wastewater treatment. <i>Bioresource Technology</i> , 2001 , 78, 231-8	11	24
204	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	5.3	23

203	First-order kinetics of landfill leachate treatment in a pilot-scale anaerobic sequence batch biofilm reactor. <i>Journal of Environmental Management</i> , 2014 , 145, 385-93	7.9	23
202	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, 1832-54	3.2	23
201	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, 347-68	3.2	23
200	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	1.8	23
199	Metal fractionation in sludge from sewage UASB treatment. <i>Journal of Environmental Management</i> , 2017 , 193, 98-107	7.9	22
198	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, 3070-81	7.9	22
197	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 ^{12,5} ²²		
196	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	3.7	22
195	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	2.2	22
194	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	3.2	21
193	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	10.2	21
192	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, 128-37	7.9	21
191	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	3.5	21
190	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	1.7	21
189	Influence of feed time and sulfate load on the organic and sulfate removal in an ASBR. <i>Bioresource Technology</i> , 2010 , 101, 6642-50	11	21
188	External and internal mass transfer effects in an anaerobic fixed-bed reactor for wastewater treatment. <i>Process Biochemistry</i> , 2000 , 35, 943-949	4.8	21
187	Toxic effects of cadmium (Cd ²⁺) on anaerobic biomass: kinetic and metabolic implications. <i>Journal of Environmental Management</i> , 2012 , 106, 75-84	7.9	20
186	On the Effects of Ferricyanide as Cathodic Mediator on the Performance of Microbial Fuel Cells. <i>Electrocatalysis</i> , 2017 , 8, 59-66	2.7	20

185	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	3.7	20
184	Cell wash-out and external mass transfer resistance in horizontal-flow anaerobic immobilized sludge reactor. <i>Water Research</i> , 1996 , 30, 2435-2439	12.5	20
183	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	7.9	20
182	Optimization performance of an AnSBBR applied to biohydrogen production treating whey. <i>Journal of Environmental Management</i> , 2016 , 169, 191-201	7.9	19
181	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, 2365-80	3.2	19
180	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, 241-7	7.9	19
179	Influence of the carbon source on the anaerobic biomass adhesion on polyurethane foam matrices. <i>Journal of Environmental Management</i> , 2005 , 74, 187-94	7.9	19
178	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	7.9	18
177	Extreme thermophilic condition: An alternative for long-term biohydrogen production from sugarcane vinasse. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22876-22887	6.7	18
176	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	3.2	18
175	Anaerobic degradation of BTEX in a packed-bed reactor. <i>Water Science and Technology</i> , 2002 , 45, 175-180.	2	18
174	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, 319-25	7.9	18
173	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	6.8	17
172	The treatment of sulfate-rich wastewater using an anaerobic sequencing batch biofilm pilot-scale reactor. <i>Desalination</i> , 2009 , 249, 241-246	10.3	17
171	A mathematical model and criteria for designing horizontal-flow anaerobic immobilized biomass reactors for wastewater treatment. <i>Bioresource Technology</i> , 2000 , 71, 235-243	11	17
170	Liquid-phase mass transfer in fixed-bed of polyurethane foam matrices containing immobilized anaerobic sludge. <i>Biotechnology Letters</i> , 1996 , 10, 121-126		17
169	Anaerobic phototrophic processes of hydrogen production by different strains of microalgae <i>Chlamydomonas</i> sp. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	16
168	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, 1892-914	3.2	16

167	Development and evaluation of a radial anaerobic/aerobic reactor treating organic matter and nitrogen in sewage. <i>Brazilian Journal of Chemical Engineering</i> , 2005 , 22, 511-519	1.7	16
166	Thermophilic biohydrogen production using a UASB reactor: performance during long-term operation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 967-976	3.5	15
165	Whey treatment by AnSBBR with circulation: effects of organic loading, shock loads, and alkalinity supplementation. <i>Applied Biochemistry and Biotechnology</i> , 2007 , 143, 257-75	3.2	15
164	Treatment of easily degradable wastewater in a stirred anaerobic sequencing batch biofilm reactor. <i>Water Research</i> , 2005 , 39, 2376-84	12.5	15
163	Sulfamethoxazole and ciprofloxacin removal using a horizontal-flow anaerobic immobilized biomass reactor. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 847-53	2.6	14
162	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	10.3	14
161	Kinetics of thermophilic acidogenesis of typical Brazilian sugarcane vinasse. <i>Energy</i> , 2016 , 116, 1097-1103	3.9	14
160	Anaerobic treatment of industrial biodiesel wastewater by an ASBR for methane production. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 170, 105-18	3.2	14
159	BIOHYDROGEN FROM CHEESE WHEY TREATMENT IN AN AnSBBR: ACHIEVING PROCESS STABILITY. <i>Brazilian Journal of Chemical Engineering</i> , 2015 , 32, 397-408	1.7	14
158	BTEX removal in a horizontal-flow anaerobic immobilized biomass reactor under denitrifying conditions. <i>Biodegradation</i> , 2013 , 24, 269-78	4.1	14
157	Influence of organic shock loads in an ASBBR treating synthetic wastewater with different concentration levels. <i>Bioresource Technology</i> , 2008 , 99, 3256-66	11	14
156	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	7.9	14
155	COMBINED TREATMENT OF VINASSE BY AN UPFLOW ANAEROBIC FILTER-REACTOR AND OZONATION PROCESS. <i>Brazilian Journal of Chemical Engineering</i> , 2016 , 33, 753-762	1.7	14
154	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	6.7	13
153	Sulfur Recovery from Wastewater Using a Micro-aerobic External Silicone Membrane Reactor (ESMR). <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	13
152	Kinetic modeling and microbial assessment by fluorescent in situ hybridization in anaerobic sequencing batch biofilm reactors treating sulfate-rich wastewater. <i>Brazilian Journal of Chemical Engineering</i> , 2011 , 28, 209-219	1.7	13
151	Bioremediation of gasoline-contaminated groundwater in a pilot-scale packed-bed anaerobic reactor. <i>International Biodeterioration and Biodegradation</i> , 2009 , 63, 747-751	4.8	13
150	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, 1756-65	7.9	13

149	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, 1411-7	11	13
148	Domestic sewage treatment in a pilot-scale anaerobic sequencing batch biofilm reactor (ASBBR). <i>Resources, Conservation and Recycling</i> , 2007 , 51, 237-247	11.9	13
147	Rational Basis for Designing Horizontal-Flow Anaerobic Immobilized Sludge (HAIS) Reactor for Wastewater Treatment. <i>Brazilian Journal of Chemical Engineering</i> , 1997 , 14, 1-8	1.7	13
146	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	4.5	13
145	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, 889-93	11	12
144	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, 140-58	3.2	12
143	Kinetics of BTEX degradation in a packed-bed anaerobic reactor. <i>Biodegradation</i> , 2007 , 18, 83-90	4.1	12
142	Immobilized cells of <i>Acidithiobacillus ferrooxidans</i> in PVC strands and sulfite removal in a pilot-scale bioreactor. <i>Biochemical Engineering Journal</i> , 2006 , 28, 201-207	4.2	12
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