Maria Bernadete Amancio Varesche

List of Publications by Year
in descending order

182 papers	5,127 citations	70961 41 h-index	138251 58 g-index
183 all docs	183 docs citations	183 times ranked	3816 citing authors

#	Article	IF	Citations
1	Development and Validation of Two Methods to Quantify Volatile Acids (C2-C6) by GC/FID: Headspace (Automatic and Manual) and Liquid-Liquid Extraction (LLE). American Journal of Analytical Chemistry, 2014, 05, 406-414.	0.3	170
2	Hydrogen production in an upflow anaerobic packed bed reactor used to treat cheese whey. International Journal of Hydrogen Energy, 2013, 38, 54-62.	3.8	163
3	Sulphate removal from industrial wastewater using a packed-bed anaerobic reactor. Process Biochemistry, 2002, 37, 927-935.	1.8	143
4	Hydrothermal processing of biomass for anaerobic digestion â€“ A review. Renewable and Sustainable Energy Reviews, 2018, 98, 108-124.	8.2	133
5	Potentially toxic metal contamination and microbial community analysis in an abandoned Pb and Zn mining waste deposit. Science of the Total Environment, 2019, 675, 367-379.	3.9	95
6	Formaldehyde degradation in an anaerobic packed-bed bioreactor. Water Research, 2004, 38, 1685-1694.	5.3	91
7	Hydrogen production from soft-drink wastewater in an upflow anaerobic packed-bed reactor. International Journal of Hydrogen Energy, 2011, 36, 8953-8966.	3.8	91
8	Evaluation of support materials for the immobilization of sulfate-reducing bacteria and methanogenic archaea. Anaerobe, 2006, 12, 93-98.	1.0	87
9	Commercial Laundry Water Characterisation. American Journal of Analytical Chemistry, 2014, 05, 8-16.	0.3	86
10	Hydrogen production from cheese whey with ethanol-type fermentation: Effect of hydraulic retention time on the microbial community composition. Bioresource Technology, 2014, 161, 10-19.	4.8	84
11	Fermentative hydrogen production by microbial consortium. International Journal of Hydrogen Energy, 2008, 33, 4309-4317.	3.8	82
12	Sugarcane vinasse as substrate for fermentative hydrogen production: The effects of temperature and substrate concentration. International Journal of Hydrogen Energy, 2014, 39, 6407-6418.	3.8	76
13	Hydrogen production from diluted and raw sugarcane vinasse under thermophilic anaerobic conditions. International Journal of Hydrogen Energy, 2014, 39, 9599-9610.	3.8	65
14	Effect of biomass adaptation to the degradation of anionic surfactants in laundry wastewater using EGSB reactors. Bioresource Technology, 2014, 154, 114-121.	4.8	63
15	Organic loading rate impact on biohydrogen production and microbial communities at anaerobic fluidized thermophilic bed reactors treating sugarcane stillage. Bioresource Technology, 2014, 159, 55-63.	4.8	61
16	Evaluation of hydrogen and methane production from sugarcane vinasse in an anaerobic fluidized bed reactor. International Journal of Hydrogen Energy, 2015, 40, 8498-8509.	3.8	61
17	Influence of multiple substrates on anaerobic protein degradation in a packed-bed bioreactor. Water Science and Technology, 2003, 48, 23-31.	1.2	59
18	Anaerobic degradation of linear alkylbenzene sulfonate (LAS) in fluidized bed reactor by microbial consortia in different support materials. Bioresource Technology, 2010, 101, 5112-5122.	4.8	59

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19	Optimization of hydrogen and organic acids productions with autochthonous and allochthonous bacteria from sugarcane bagasse in batch reactors. Journal of Environmental Management, 2018, 223, 952-963.	3.8	59
20	Biohydrogen production from dairy industry wastewater in an anaerobic fluidized-bed reactor. Biomass and Bioenergy, 2019, 120, 257-264.	2.9	59
21	Microbial colonization of polyurethane foam matrices in horizontal-flow anaerobic immobilized-sludge reactor. Applied Microbiology and Biotechnology, 1997, 48, 534-538.	1.7	58
22	Microbial characterization and degradation of linear alkylbenzene sulfonate in an anaerobic reactor treating wastewater containing soap powder. Bioresource Technology, 2014, 167, 316-323.	4.8	58
23	Evaluation of the microbial diversity in an UASB reactor treating wastewater from an unbleached pulp plant. Process Biochemistry, 2006, 41, 168-176.	1.8	57
24	Continuous thermophilic hydrogen production and microbial community analysis from anaerobic digestion of diluted sugar cane stillage. International Journal of Hydrogen Energy, 2014, 39, 9000-9011.	3.8	53
25	Comparison of Methanol, Ethanol, and Methane as Electron Donors for Denitrification. Environmental Engineering Science, 2004, 21, 313-320.	0.8	52
26	Performance and molecular evaluation of an anaerobic system with suspended biomass for treating wastewater with high fat content after enzymatic hydrolysis. Bioresource Technology, 2009, 100, 6170-6176.	4.8	51
27	Thermophilic hydrogen production from sugarcane bagasse pretreated by steam explosion and alkaline delignification. International Journal of Hydrogen Energy, 2015, 40, 6296-6306.	3.8	50
28	Hydrogen, alcohols and volatile fatty acids from the co-digestion of coffee waste (coffee pulp, husk,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Hydrogen Energy, 2019, 44, 21434-21450.	3.8	50
29	Hydrogen bioproduction with anaerobic bacteria consortium from brewery wastewater. International Journal of Hydrogen Energy, 2019, 44, 155-163.	3.8	50
30	Effect of inoculum concentration, pH, light intensity and lighting regime on hydrogen production by phototrophic microbial consortium. Renewable Energy, 2015, 75, 1-7.	4.3	49
31	Performance evaluation and phylogenetic characterization of anaerobic fluidized bed reactors using ground tire and pet as support materials for biohydrogen production. Bioresource Technology, 2011, 102, 3840-3847.	4.8	48
32	Microbial characterization and removal of anionic surfactant in an expanded granular sludge bed reactor. Bioresource Technology, 2012, 107, 103-109.	4.8	48
33	Continuous thermophilic hydrogen production from cheese whey powder solution in an anaerobic fluidized bed reactor: Effect of hydraulic retention time and initial substrate concentration. International Journal of Hydrogen Energy, 2017, 42, 4848-4860.	3.8	48
34	Development of a method by HPLC to determine LAS and its application in anaerobic reactors. Journal of the Brazilian Chemical Society, 2006, 17, 1360-1367.	0.6	46
35	Performance and composition of bacterial communities in anaerobic fluidized bed reactors for hydrogen production: Effects of organic loading rate and alkalinity. International Journal of Hydrogen Energy, 2012, 37, 16925-16934.	3.8	46
36	Microbial diversity and the implications of sulfide levels in an anaerobic reactor used to remove an anionic surfactant from laundry wastewater. Bioresource Technology, 2015, 192, 37-45.	4.8	46

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37	Anaerobic co-digestion of commercial laundry wastewater and domestic sewage in a pilot-scale EGSB reactor: The influence of surfactant concentration on microbial diversity. International Biodeterioration and Biodegradation, 2018, 127, 77-86.	1.9	46
38	Hydrogen production and consumption of organic acids by a phototrophic microbial consortium. International Journal of Hydrogen Energy, 2012, 37, 11691-11700.	3.8	45
39	The Effect of Biomass Immobilization Support Material and Bed Porosity on Hydrogen Production in an Upflow Anaerobic Packed-Bed Bioreactor. Applied Biochemistry and Biotechnology, 2013, 170, 1348-1366.	1.4	45
40	Metagenomic analysis of the microbiome in three different bioreactor configurations applied to commercial laundry wastewater treatment. Science of the Total Environment, 2017, 587-588, 389-398.	3.9	45
41	Fermentative hydrogen production with xylose by Clostridium and Klebsiella species in anaerobic batch reactors. International Journal of Hydrogen Energy, 2011, 36, 13508-13517.	3.8	44
42	Microbial diversity of a fullâ€scale UASB reactor applied to poultry slaughterhouse wastewater treatment: integration of 16S rRNA gene amplicon and shotgun metagenomic sequencing. MicrobiologyOpen, 2017, 6, e00443.	1.2	43
43	Effects of hydraulic retention time, co-substrate and nitrogen source on laundry wastewater anionic surfactant degradation in fluidized bed reactors. Bioresource Technology, 2017, 224, 246-254.	4.8	42
44	Analysis of a microbial community associated with polychlorinated biphenyl degradation in anaerobic batch reactors. Biodegradation, 2014, 25, 797-810.	1.5	41
45	Hydrogen bioproduction with Enterobacter sp. isolated from brewery wastewater. International Journal of Hydrogen Energy, 2017, 42, 152-160.	3.8	41
46	Bioconversion of crude glycerol from waste cooking oils into hydrogen by sub-tropical mixed and pure cultures. International Journal of Hydrogen Energy, 2019, 44, 144-154.	3.8	41
47	Phenol degradation in horizontal-flow anaerobic immobilized biomass (HAIB) reactor under mesophilic conditions. Water Science and Technology, 2001, 44, 167-174.	1.2	40
48	Evaluation of the microbial community of upflow anaerobic sludge blanket reactors used for the removal and degradation of linear alkylbenzene sulfonate by pyrosequencing. International Biodeterioration and Biodegradation, 2014, 96, 63-70.	1.9	40
49	Application of molecular techniques to evaluate the methanogenic archaea and anaerobic bacteria in the presence of oxygen with different COD:Sulfate ratios in a UASB reactor. Anaerobe, 2008, 14, 209-218.	1.0	39
50	Evaluation of the microbial diversity in a horizontal-flow anaerobic immobilized biomass reactor treating linear alkylbenzene sulfonate. Biodegradation, 2008, 19, 375-385.	1.5	38
51	Microbial diversity of hydrogen-producing bacteria in batch reactors fed with cellulose using leachate as inoculum. International Journal of Hydrogen Energy, 2013, 38, 9707-9717.	3.8	38
52	Optimization of linear alkylbenzene sulfonate (LAS) degradation in UASB reactors by varying bioavailability of LAS, hydraulic retention time and specific organic load rate. Bioresource Technology, 2013, 128, 125-133.	4.8	38
53	Degradation of high concentrations of nonionic surfactant (linear alcohol ethoxylate) in an anaerobic fluidized bed reactor. Science of the Total Environment, 2014, 481, 121-128.	3.9	37
54	Role of homo-and heterofermentative lactic acid bacteria on hydrogen-producing reactors operated with cheese whey wastewater. International Journal of Hydrogen Energy, 2015, 40, 8650-8660.	3.8	37

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55	Characterization and antimicrobial activity of lactic acid bacteria from fermentative bioreactors during hydrogen production using cassava processing wastewater. Chemical Engineering Journal, 2016, 284, 1-9.	6.6	37
56	Effect of a probiotic beverage consumption (Enterococcus faecium CRL 183 and Bifidobacterium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	37
57	Optimization of key factors affecting hydrogen production from coffee waste using factorial design and metagenomic analysis of the microbial community. International Journal of Hydrogen Energy, 2020, 45, 4205-4222.	3.8	34
58	Treatment of linear alkylbenzene sulfonate in a horizontal anaerobic immobilized biomass reactor. Bioresource Technology, 2010, 101, 606-612.	4.8	33
59	Comparative metatranscriptomic analysis of anaerobic digesters treating anionic surfactant contaminated wastewater. Science of the Total Environment, 2019, 649, 482-494.	3.9	33
60	The comparative advantages of ethanol and sucrose as co-substrates in the degradation of an anionic surfactant: microbial community selection. Bioprocess and Biosystems Engineering, 2015, 38, 1835-1844.	1.7	32
61	Sequential fermentative and phototrophic system for hydrogen production: An approach for Brazilian alcohol distillery wastewater. International Journal of Hydrogen Energy, 2015, 40, 9642-9655.	3.8	32
62	Metagenomic analysis and optimization of hydrogen production from sugarcane bagasse. Biomass and Bioenergy, 2018, 117, 78-85.	2.9	32
63	HRT control as a strategy to enhance continuous hydrogen production from sugarcane juice under mesophilic and thermophilic conditions in AFBRs. International Journal of Hydrogen Energy, 2019, 44, 19719-19729.	3.8	32
64	Bacillus sp. isolated from banana waste and analysis of metabolic pathways in acidogenic systems in hydrogen production. Journal of Environmental Management, 2019, 247, 178-186.	3.8	32
65	Influence of alkaline peroxide assisted and hydrothermal pretreatment on biodegradability and bio-hydrogen formation from citrus peel waste. International Journal of Hydrogen Energy, 2019, 44, 22888-22903.	3.8	31
66	Influence of support material on the immobilization of biomass for the degradation of linear alkylbenzene sulfonate in anaerobic reactors. Journal of Environmental Management, 2009, 90, 1261-1268.	3.8	29
67	Degradation of detergent (linear alkylbenzene sulfonate) in an anaerobic stirred sequencing-batch reactor containing granular biomass. International Biodeterioration and Biodegradation, 2010, 64, 129-134.	1.9	29
68	Metabolic routes involved in the removal of linear alkylbenzene sulfonate (LAS) employing linear alcohol ethoxylated and ethanol as co-substrates in enlarged scale fluidized bed reactor. Science of the Total Environment, 2018, 640-641, 1411-1423.	3.9	28
69	Evaluation of anionic surfactant removal by anaerobic degradation of commercial laundry wastewater and domestic sewage. Environmental Technology (United Kingdom), 2019, 40, 988-996.	1.2	28
70	Bacterial diversity from environmental sample applied to bio-hydrogen production. International Journal of Hydrogen Energy, 2015, 40, 3180-3190.	3.8	27
71	Evaluation of bacterial community from anaerobic fluidized bed reactor for the removal of linear alkylbenzene sulfonate from laundry wastewater by 454-pyrosequence. Ecological Engineering, 2015, 82, 231-240.	1.6	27
72	Laundry wastewater and domestic sewage pilot-scale anaerobic treatment: Microbial community resilience regarding sulfide production. Journal of Environmental Management, 2019, 251, 109495.	3.8	27

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73	Scale-up evaluation of anaerobic degradation of linear alkylbenzene sulfonate from sanitary sewage in expanded granular sludge bed reactor. International Biodeterioration and Biodegradation, 2019, 138, 23-32.	1.9	27
74	BTEX and ethanol removal in horizontal-flow anaerobic immobilized biomass reactor, under denitrifying condition. Process Biochemistry, 2006, 41, 1391-1400.	1.8	26
75	Influence of the carbon source on the anaerobic biomass adhesion on polyurethane foam matrices. Journal of Environmental Management, 2005, 74, 187-194.	3.8	25
76	Ethanol and toluene removal in a horizontal-flow anaerobic immobilized biomass reactor in the presence of sulfate. Biotechnology and Bioengineering, 2005, 91, 244-253.	1.7	25
77	Methanogenic potential of diclofenac and ibuprofen in sanitary sewage using metabolic cosubstrates. Science of the Total Environment, 2020, 742, 140530.	3.9	25
78	Evaluation of thermophilic anaerobic microbial consortia using fluorescence in situ hybridization (FISH). Water Science and Technology, 2002, 45, 27-33.	1.2	24
79	Soil contamination assessment for Pb, Zn and Cd in a slag disposal area using the integration of geochemical and microbiological data. Environmental Monitoring and Assessment, 2016, 188, 698.	1.3	24
80	Biotechnological products in batch reactors obtained from cellulose, glucose and xylose using thermophilic anaerobic consortium. Renewable Energy, 2018, 125, 537-545.	4.3	24
81	Bacterial and archaeal community structure involved in biofuels production using hydrothermal- and enzymatic-pretreated sugarcane bagasse for an improvement in hydrogen and methane production. Sustainable Energy and Fuels, 2018, 2, 2644-2660.	2.5	24
82	Metagenomic analysis of autochthonous microbial biomass from banana waste: Screening design of factors that affect hydrogen production. Biomass and Bioenergy, 2020, 138, 105573.	2.9	24
83	Production of H2 from cellulose by rumen microorganisms: effects of inocula pre-treatment and enzymatic hydrolysis. Biotechnology Letters, 2014, 36, 537-546.	1.1	23
84	The effects of seed sludge and hydraulic retention time on the production of hydrogen from a cassava processing wastewater and glucose mixture in an anaerobic fluidized bed reactor. International Journal of Hydrogen Energy, 2014, 39, 13118-13127.	3.8	23
85	Evaluation of the microbial diversity of denitrifying bacteria in batch reactor. Brazilian Journal of Chemical Engineering, 2013, 30, 457-465.	0.7	22
86	Controlling methane and hydrogen production from cheese whey in an EGSB reactor by changing the HRT. Bioprocess and Biosystems Engineering, 2020, 43, 673-684.	1.7	22
87	Biohydrogen production in an integrated biosystem using crude glycerol from waste cooking oils. Renewable Energy, 2020, 162, 701-711.	4.3	22
88	Performance of a reactor containing denitrifying immobilized biomass in removing ethanol and aromatic hydrocarbons (BTEX) in a short operating period. Journal of Hazardous Materials, 2007, 139, 301-309.	6.5	21
89	Methanogenic potential of an anaerobic sludge in the presence ofÂanionic and nonionic surfactants. International Biodeterioration and Biodegradation, 2014, 96, 198-204.	1.9	21
90	Bacterial communities in thermophilic H2-producing reactors investigated using 16S rRNA 454 pyrosequencing. Microbiological Research, 2015, 173, 10-17.	2.5	21

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91	Selection of metabolic pathways for continuous hydrogen production under thermophilic and mesophilic temperature conditions in anaerobic fluidized bed reactors. International Journal of Hydrogen Energy, 2018, 43, 18908-18917.	3.8	21
92	Experimental design and syntrophic microbial pathways for biofuel production from sugarcane bagasse under thermophilic condition. Renewable Energy, 2019, 140, 852-861.	4.3	21
93	Enzymatic routes to hydrogen and organic acids production from banana waste fermentation by autochthonous bacteria: Optimization of pH and temperature. International Journal of Hydrogen Energy, 2021, 46, 8454-8468.	3.8	21
94	Anaerobic degradation of BTEX in a packed-bed reactor. Water Science and Technology, 2002, 45, 175-180.	1.2	20
95	Influence of C/P and C/N ratios and microbial characterization in hydrogen and ethanol production in an anaerobic fluidized bed reactor. International Journal of Hydrogen Energy, 2017, 42, 9600-9610.	3.8	20
96	Methane Production from Hydrogen Peroxide Assisted Hydrothermal Pretreatment of Solid Fraction Sugarcane Bagasse. Waste and Biomass Valorization, 2020, 11, 31-50.	1.8	20
97	Design and optimization of hydrogen production from hydrothermally pretreated sugarcane bagasse using response surface methodology. Water Science and Technology, 2017, 76, 95-105.	1.2	19
98	Improving the hydrogen production from coffee waste through hydrothermal pretreatment, co-digestion and microbial consortium bioaugmentation. Biomass and Bioenergy, 2020, 137, 105551.	2.9	19
99	Microbial community analyses by high-throughput sequencing of rumen microorganisms fermenting office paper in mesophilic and thermophilic lysimeters. Chemical Engineering Research and Design, 2020, 136, 182-193.	2.7	17
100	Statistical optimization of methane production from brewery spent grain: Interaction effects of temperature and substrate concentration. Journal of Environmental Management, 2021, 288, 112363.	3.8	17
101	Phenol degradation in an anaerobic fluidized bed reactor packed with low density support materials. Brazilian Journal of Chemical Engineering, 2012, 29, 87-98.	0.7	16
102	Bioconversion of waste office paper to hydrogen using pretreated rumen fluid inoculum. Bioprocess and Biosystems Engineering, 2016, 39, 1887-1897.	1.7	16
103	Kinetics of methane production and biodegradation of linear alkylbenzene sulfonate from laundry wastewater. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 1288-1302.	0.9	15
104	Bioconversion of Sugarcane Bagasse into Value-Added Products by Bioaugmentation of Endogenous Cellulolytic and Fermentative Communities. Waste and Biomass Valorization, 2019, 10, 1899-1912.	1.8	15
105	Anaerobic reactor applied to laundry wastewater treatment: Unveiling the microbial community by gene and genome-centric approaches. International Biodeterioration and Biodegradation, 2020, 149, 104916.	1.9	15
106	Kinetic modeling and microbial assessment by fluorescent in situ hybridization in anaerobic sequencing batch biofilm reactors treating sulfate-rich wastewater. Brazilian Journal of Chemical Engineering, 2011, 28, 209-219.	0.7	14
107	Influence of co-substrates in the anaerobic degradation of an anionic surfactant. Brazilian Journal of Chemical Engineering, 2013, 30, 499-506.	0.7	14
108	Simultaneous determination of anionic and nonionic surfactants in commercial laundry wastewater and anaerobic fluidized bed reactor effluent by online column-switching liquid chromatography/tandem mass spectrometry. Science of the Total Environment, 2017, 580, 1120-1128.	3.9	14

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109	Metataxonomic characterization of bacterial and archaeal community involved in hydrogen and methane production from citrus peel waste (Citrus sinensis L. Osbeck) in batch reactors. Biomass and Bioenergy, 2021, 149, 106091.	2.9	13
110	Anaerobic degradation of linear alkylbenzene sulfonate in fluidized bed reactor. Brazilian Journal of Chemical Engineering, 2010, 27, 539-543.	0.7	12
111	Influence of volatile fatty acid concentration stability on anaerobic degradation of linear alkylbenzene sulfonate. Journal of Environmental Management, 2013, 128, 169-172.	3.8	12
112	Las degradation in a fluidized bed reactor and phylogenetic characterization of the biofilm. Brazilian Journal of Chemical Engineering, 2013, 30, 521-529.	0.7	12
113	Application of horizontal-flow anaerobic immobilized biomass reactor for bioremediation of acid mine drainage. Journal of Water and Health, 2016, 14, 399-410.	1.1	12
114	Effect of 2-bromoethanesulfonate on anaerobic consortium to enhance hydrogen production utilizing sugarcane bagasse. International Journal of Hydrogen Energy, 2016, 41, 22812-22823.	3.8	12
115	Evaluation of anionic surfactant removal in anaerobic reactor with Fe(III) supplementation. Journal of Environmental Management, 2016, 183, 687-693.	3.8	12
116	The influence of upflow velocity and hydraulic retention time changes on taxonomic and functional characterization in Fluidized Bed Reactor treating commercial laundry wastewater in co-digestion with domestic sewage. Biodegradation, 2020, 31, 73-89.	1.5	12
117	Screening design of nutritional and physicochemical parameters on bio-hydrogen and volatile fatty acids production from Citrus Peel Waste in batch reactors. International Journal of Hydrogen Energy, 2021, 46, 7794-7809.	3.8	12
118	Homoacetogenesis: New insights into controlling this unsolved challenge by selecting the optimal C/N ratio, C/P ratio and hydraulic retention time. Chemical Engineering Research and Design, 2021, 145, 273-284.	2.7	12
119	Microbial and functional characterization of an allochthonous consortium applied to hydrogen production from Citrus Peel Waste in batch reactor in optimized conditions. Journal of Environmental Management, 2021, 291, 112631.	3.8	12
120	Anaerobic digestion of aqueous phase from hydrothermal liquefaction of Spirulina using biostimulated sludge. Bioresource Technology, 2020, 312, 123552.	4.8	12
121	Denitrification coupled with methane anoxic oxidation and microbial community involved identification. Brazilian Archives of Biology and Technology, 2011, 54, 173-182.	0.5	11
122	The Biological Hydrogen Production Potential of Agroindustrial Residues. Waste and Biomass Valorization, 2015, 6, 273-280.	1.8	11
123	Hydrogen Production by Clostridium cellulolyticum a Cellulolytic and Hydrogen-Producing Bacteria Using Sugarcane Bagasse. Waste and Biomass Valorization, 2019, 10, 827-837.	1.8	11
124	4-Nonylphenol degradation changes microbial community of scale-up Anaerobic Fluidized Bed Reactor. Journal of Environmental Management, 2020, 267, 110575.	3.8	11
125	Robustness and Microbial Diversity of a Fluidized Bed Reactor Employed for the Removal and Degradation of an Anionic Surfactant from Laundry Wastewater. Journal of Environmental Engineering, ASCE, 2017, 143, .	0.7	10
126	Bioconversion of pretreated sugarcane vinasse into hydrogen: new perspectives to solve one of the greatest issues of the sugarcane biorefinery. Biomass Conversion and Biorefinery, 2022, 12, 5527-5541.	2.9	10

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127	Influence of cosubstrate and hydraulic retention time on the removal of drugs and hygiene products in sanitary sewage in an anaerobic Expanded Granular Sludge Bed reactor. Journal of Environmental Management, 2021, 299, 113532.	3.8	10
128	Identification of Anionic and Nonionic Surfactant and Recalcitrants Compounds in Commercial Laundry Wastewater by GC-MS Analysis After Anaerobic Fluidized Bed Reactor Treatment. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	9
129	Screening and Bioprospecting of Anaerobic Consortia for Biofuel Production Enhancement from Sugarcane Bagasse. Applied Biochemistry and Biotechnology, 2020, 190, 232-251.	1.4	9
130	Microbial structure and diversity in non-sanitary landfills and association with physicochemical parameters. Environmental Science and Pollution Research, 2020, 27, 40690-40705.	2.7	9
131	Dynamics and response of microbial diversity to nutritional conditions in denitrifying bioreactor for linear alkylbenzene sulfonate removal. Journal of Environmental Management, 2020, 263, 110387.	3.8	9
132	Isolation of Paraclostridium CR4 from sugarcane bagasse and its evaluation in the bioconversion of lignocellulosic feedstock into hydrogen by monitoring cellulase gene expression. Science of the Total Environment, 2020, 715, 136868.	3.9	9
133	Dissecting the role of heterogeneity and hydrothermal pretreatment of sugarcane bagasse in metabolic pathways for biofuels production. Industrial Crops and Products, 2021, 160, 113120.	2.5	9
134	Influence of metabolic cosubstrates on methanogenic potential and degradation of triclosan and propranolol in sanitary sewage. Environmental Research, 2021, 199, 111220.	3.7	9
135	Influence of Extracellular Polymeric Substances on Anaerobic Biofilms Supported by Polyurethane Foam Matrices. Environmental Engineering Science, 2003, 20, 249-255.	0.8	8
136	The effect of enzymatic pre-hydrolysis of dairy wastewater on the granular and immobilized microbial community in anaerobic bioreactors. Environmental Technology (United Kingdom), 2013, 34, 417-428.	1.2	8
137	Influence of Sucrose on the Diversity of Bacteria Involved in Nonionic Surfactant Degradation in Fluidized Bed Reactor. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	8
138	Microbial Characterization of Methanogenic and Iron-reducing Consortium in Reactors with Polychlorinated Biphenyls. Current Microbiology, 2018, 75, 666-676.	1.0	8
139	Obtaining and Characterization of Mesophilic Bacterial Consortia from Tropical Sludges Applied on Biohydrogen Production. Waste and Biomass Valorization, 2019, 10, 1493-1502.	1.8	8
140	INFLUENCE OF HYDRAULIC RETENTION TIME ON HYDROGEN PRODUCTION BY TREATING CHEESE WHEY WASTEWATER IN ANAEROBIC FLUIDIZED BED BIOREACTOR - AN APPROACH FOR DEVELOPING COUNTRIES. Brazilian Journal of Chemical Engineering, 2019, 36, 1109-1117.	0.7	8
141	Producing hydrogen from the fermentation of cheese whey and glycerol as cosubstrates in an anaerobic fluidized bed reactor. International Journal of Hydrogen Energy, 2022, 47, 14243-14256.	3.8	8
142	Morphological observation and microbial population dynamics in anaerobic polyurethane foam biofilm degrading gelatin. Brazilian Journal of Chemical Engineering, 2002, 19, 287-292.	0.7	7
143	Methanogenic potential and microbial community of anaerobic batch reactors at different ethylamine/sulfate ratios. Brazilian Journal of Chemical Engineering, 2011, 28, 1-8.	0.7	7
144	Influence of cosubstrates for linear anionic sulfonated alkylbenzene degradation and methane production in anaerobic batch reactors. Chemical Engineering Research and Design, 2020, 139, 60-68.	2.7	7

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145	Bioaugmentation with Enterococcus casseliflavus: A Hydrogen-Producing Strain Isolated from Citrus Peel Waste. Waste and Biomass Valorization, 2021, 12, 895-911.	1.8	7
146	Biodegradation of linear alkylbenzene sulfonate in commercial laundry wastewater by an anaerobic fluidized bed reactor. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 946-57.	0.9	7
147	The Deconstruction of the Lignocellulolytic Structure of Sugarcane Bagasse by Laccases Improves the Production of H2 and Organic Acids. Applied Biochemistry and Biotechnology, 2022, 194, 3145-3166.	1.4	7
148	Anaerobic Degradation of Protein: Simplified Kinetic Modelling and Microbial Dynamics. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	6
149	Anaerobic Toxicity Assay of Polychlorinated Biphenyl: Focus on Fermentative-Methanogenic Community. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	6
150	Metals addition for enhanced hydrogen, acetic and butyric acids production from cellulosic substrates by Clostridium butyricum. Biomass and Bioenergy, 2021, 150, 105679.	2.9	6
151	Methane Production Using Brewery Spent Grain: Optimal Hydrothermolysis, Fermentation of Waste and Role of Microbial Populations. Waste and Biomass Valorization, 2022, 13, 1179-1194.	1.8	6
152	Phylogenetic characterization and quantification by Most Probable Number of the microbial communities of biomass from the Upflow Anaerobic Sludge Blanket Reactor under sulfidogenic conditions. Acta Scientiarum - Technology, 2019, 41, 39128.	0.4	5
153	Anaerobic degradation of anionic surfactants by indigenous microorganisms from sediments of a tropical polluted river in Brazil. Revista De Biologia Tropical, 2014, 63, 295.	0.1	5
154	Evaluation of microorganisms with sulfidogenic metabolic potential under anaerobic conditions. Brazilian Archives of Biology and Technology, 2012, 55, 779-784.	0.5	5
155	Influence of ethanol and nitrate on ibuprofen removal in batch reactors under denitrifying conditions. Chemical Engineering Research and Design, 2022, 160, 297-309.	2.7	5
156	Biodegradation of diclofenac and ibuprofen in Fluidized Bed Reactor applied to sanitary sewage treatment in acidogenic and denitrifying conditions. Journal of Water Process Engineering, 2022, 49, 102964.	2.6	5
157	Development and validation of a HPLC method for the determination of aldicarb, aldicarb sulfoxide and aldicarb sulfone in liquid samples from anaerobic reactors. Journal of the Brazilian Chemical Society, 2008, 19, 1158-1164.	0.6	4
158	Diversity of anaerobic bacteria in sediments from a subtropical reservoir. Lakes and Reservoirs: Research and Management, 2016, 21, 351-361.	0.6	4
159	Bioremoval of Surfactant from Laundry Wastewater in Optimized Condition by Anoxic Reactors. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	4
160	Influence of linear alkylbenzene sulfonate and ethanol on the degradation kinetics of domestic sewage in co-digestion with commercial laundry wastewater. Bioprocess and Biosystems Engineering, 2019, 42, 1547-1558.	1.7	4
161	Orange Bagasse Pellets as a Carbon Source for Biobutanol Production. Current Microbiology, 2020, 77, 4053-4062.	1.0	4
162	LIMONENE QUANTIFICATION BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY (GC-MS) AND ITS EFFECTS ON HYDROGEN AND VOLATILE FATTY ACIDS PRODUCTION IN ANAEROBIC REACTORS. Quimica Nova, 2020, , .	0.3	4

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