Edson Luis Silva

List of Publications by Year in descending order

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Version: 2024-02-01

102 papers 2,742 citations

147726 31 h-index 223716 46 g-index

104 all docs 104 docs citations 104 times ranked 1984 citing authors

#	Article	IF	CITATIONS
1	Potential methanogenic and degradation of nonylphenol ethoxylate from domestic sewage: unravelling the essential roles of nutritional conditions and microbial community. Environmental Technology (United Kingdom), 2023, 44, 1996-2010.	1.2	2
2	Microbial and functional characterization of granulated sludge from full-scale UASB thermophilic reactor applied to sugarcane vinasse treatment. Environmental Technology (United Kingdom), 2023, 44, 3141-3160.	1.2	3
3	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
4	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
5	Optimization of Key Factors Affecting Hydrogen and Ethanol Production from Xylose by Thermoanaerobacterium calidifontis VCS1 Isolated from Vinasse Treatment Sludge. Waste and Biomass Valorization, 2022, 13, 1897-1912.	1.8	4
6	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
7	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
8	Scale-up and energy estimations of single- and two-stage vinasse anaerobic digestion systems for hydrogen and methane production. Journal of Cleaner Production, 2022, 349, 131459.	4.6	13
9	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
10	Bioaugmentation with Enterococcus casseliflavus: A Hydrogen-Producing Strain Isolated from Citrus Peel Waste. Waste and Biomass Valorization, 2021, 12, 895-911.	1.8	7
11	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
12	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
13	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
14	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
15	A new side-looking at the dark fermentation of sugarcane vinasse: Improving the carboxylates production in mesophilic EGSB by selection of the hydraulic retention time and substrate concentration. International Journal of Hydrogen Energy, 2021, 46, 12758-12770.	3.8	15
16	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
17	Anaerobic Biodegradation of Biodiesel Industry Wastewater in Mesophilic and Thermophilic Fluidized Bed Reactors: Enhancing Treatment and Methane Recovery. Applied Biochemistry and Biotechnology, 2021, 193, 3336-3350.	1.4	5
18	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

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19	One waste and two products: choosing the best operational temperature and hydraulic retention time to recover hydrogen or 1,3-propanediol from glycerol fermentation. Bioprocess and Biosystems Engineering, 2021, 44, 2491-2502.	1.7	11
20	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
21	Anaerobic digestion of vinasse in fluidized bed reactors: Process robustness between two-stage thermophilic-thermophilic and thermophilic-mesophilic systems. Journal of Cleaner Production, 2021, 314, 128066.	4.6	34
22	Enhanced fermentative production of 1,3 propanediol by employing ethanol industry wastewater. Bioresource Technology Reports, 2021, 16, 100865.	1.5	2
23	New Insights into Controlling Homoacetogenesis in the Co-digestion of Coffee Waste: Effect of Operational Conditions and Characterization of Microbial Communities. Applied Biochemistry and Biotechnology, 2021, , 1.	1.4	2
24	Methane Production from Hydrogen Peroxide Assisted Hydrothermal Pretreatment of Solid Fraction Sugarcane Bagasse. Waste and Biomass Valorization, 2020, 11, 31-50.	1.8	20
25	Thermophilic hydrogen and methane production from sugarcane stillage in two-stage anaerobic fluidized bed reactors. International Journal of Hydrogen Energy, 2020, 45, 5239-5251.	3.8	45
26	An alternative for value aggregation to the sugarcane chain: Biohydrogen and volatile fatty acids production from sugarcane molasses in mesophilic expanded granular sludge bed reactors. Fuel, 2020, 260, 116419.	3.4	23
27	Screening and Bioprospecting of Anaerobic Consortia for Biofuel Production Enhancement from Sugarcane Bagasse. Applied Biochemistry and Biotechnology, 2020, 190, 232-251.	1.4	9
28	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
29	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
30	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
31	Improved dark fermentation of cane molasses in mesophilic and thermophilic anaerobic fluidized bed reactors by selecting operational conditions. International Journal of Energy Research, 2020, 44, 10442-10452.	2.2	15
32	Enhancement of Clostridium butyricum hydrogen production by iron and nickel nanoparticles: Effects on hydA expression. International Journal of Hydrogen Energy, 2020, 45, 28447-28461.	3.8	26
33	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
34	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
35	4-Nonylphenol degradation changes microbial community of scale-up Anaerobic Fluidized Bed Reactor. Journal of Environmental Management, 2020, 267, 110575.	3.8	11
36	Simultaneous hydrogen and ethanol production in a thermophilic AFBR: a comparative approach between cellulosic hydrolysate single fermentation and the fermentation of glucose and xylose as co-substrates. Cellulose, 2020, 27, 2599-2612.	2.4	14

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37	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
38	Statistical optimization of H2, 1,3-propanediol and propionic acid production from crude glycerol using an anaerobic fluidized bed reactor: Interaction effects of substrate concentration and hydraulic retention time. Biomass and Bioenergy, 2020, 138, 105575.	2.9	26
39	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
40	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
41	Hydrogen production from sugarcane juice in expanded granular sludge bed reactors under mesophilic conditions: The role of homoacetogenesis and lactic acid production. Industrial Crops and Products, 2019, 138, 111586.	2.5	31
42	Hydrogen, alcohols and volatile fatty acids from the co-digestion of coffee waste (coffee pulp, husk,) Tj ETQq0 0 Hydrogen Energy, 2019, 44, 21434-21450.	0 rgBT /O\ 3.8	verlock 10 Tf 50
43	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
44	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
45	Experimental design and syntrophic microbial pathways for biofuel production from sugarcane bagasse under thermophilic condition. Renewable Energy, 2019, 140, 852-861.	4.3	21
46	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
47	Valorization of the Crude Glycerol for Propionic Acid Production Using an Anaerobic Fluidized Bed Reactor with Grounded Tires as Support Material. Applied Biochemistry and Biotechnology, 2018, 186, 400-413.	1.4	19
48	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
49	Hydrothermal processing of biomass for anaerobic digestion – A review. Renewable and Sustainable Energy Reviews, 2018, 98, 108-124.	8.2	133
50	Optimized 1,3-propanediol production from crude glycerol using mixed cultures in batch and continuous reactors. Bioprocess and Biosystems Engineering, 2018, 41, 1807-1816.	1.7	10
51	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
52	Metagenomic analysis and optimization of hydrogen production from sugarcane bagasse. Biomass and Bioenergy, 2018, 117, 78-85.	2.9	32
53	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
54	Continuous hydrogen production from cofermentation of sugarcane vinasse and cheese whey in a thermophilic anaerobic fluidized bed reactor. International Journal of Hydrogen Energy, 2018, 43, 13081-13089.	3.8	34

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55	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
56	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
57	Bioremoval of Surfactant from Laundry Wastewater in Optimized Condition by Anoxic Reactors. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	4
58	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
59	Co-Fermentation of Cheese Whey and Crude Glycerol in EGSB Reactor as a Strategy to Enhance Continuous Hydrogen and Propionic Acid Production. Applied Biochemistry and Biotechnology, 2017, 183, 712-728.	1.4	19
60	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
61	Improving EGSB reactor performance for simultaneous bioenergy and organic acid production from cheese whey via continuous biological H2 production. Biotechnology Letters, 2017, 39, 983-991.	1.1	9
62	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
63	Continuous Hydrogen Production from Agricultural Wastewaters at Thermophilic and Hyperthermophilic Temperatures. Applied Biochemistry and Biotechnology, 2017, 182, 846-869.	1.4	27
64	Phenol Biodegradation by Pseudomonas putida in an Airlift Reactor: Assessment of Kinetic, Hydrodynamic, and Mass Transfer Parameters. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	6
65	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
66	Bioconversion of waste office paper to hydrogen using pretreated rumen fluid inoculum. Bioprocess and Biosystems Engineering, 2016, 39, 1887-1897.	1.7	16
67	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
68	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
69	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
70	The Biological Hydrogen Production Potential of Agroindustrial Residues. Waste and Biomass Valorization, 2015, 6, 273-280.	1.8	11
71	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
72	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

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73	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
74	Effects of the Organic-Loading Rate on the Performance of an Anaerobic Fluidized-Bed Reactor Treating Synthetic Wastewater Containing Phenol. Journal of Environmental Engineering, ASCE, 2015, 141, 04015022.	0.7	6
75	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
76	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
77	Simultaneous Coproduction of Hydrogen and Ethanol in Anaerobic Packed-Bed Reactors. BioMed Research International, 2014, 2014, 1-10.	0.9	8
78	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
79	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
80	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
81	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
82	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
83	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
84	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
85	Hydrogen production from diluted and raw sugarcane vinasse under thermophilic anaerobic conditions. International Journal of Hydrogen Energy, 2014, 39, 9599-9610.	3.8	65
86	Different ratios of carbon sources in the fermentation of cheese whey and glucose as substrates for hydrogen and ethanol production in continuous reactors. International Journal of Hydrogen Energy, 2014, 39, 1288-1296.	3.8	53
87	Simultaneous removal of phenol and nitrate in an anoxic fluidized bed reactor. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 581-591.	0.9	8
88	Influence of organic loading rate on the anaerobic treatment of sugarcane vinasse and biog \tilde{A}_i s production in fluidized bed reactor. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 1707-1716.	0.9	50
89	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
90	Hydrogen and ethanol production in anaerobic fluidized bed reactors: Performance evaluation for three support materials under different operating conditions. Biochemical Engineering Journal, 2012, 61, 59-65.	1.8	55

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91	Effect of Substrate Concentration on Dark Fermentation Hydrogen Production Using an Anaerobic Fluidized Bed Reactor. Applied Biochemistry and Biotechnology, 2012, 166, 1248-1263.	1.4	67
92	Effect of upflow velocity and hydraulic retention time in anaerobic fluidized-bed reactors used for hydrogen production. Chemical Engineering Journal, 2011, 172, 28-36.	6.6	37
93	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
94	Performance evaluation of packing materials in the removal of hydrogen sulphide in gas-phase biofilters: Polyurethane foam, sugarcane bagasse, and coconut fibre. Chemical Engineering Journal, 2010, 158, 441-450.	6.6	60
95	Biohydrogen production in anaerobic fluidized bed reactors: Effect of support material and hydraulic retention time. International Journal of Hydrogen Energy, 2010, 35, 3379-3388.	3.8	95
96	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
97	Anaerobic fluidized bed reactor with expanded clay as support for hydrogen production through dark fermentation of glucose. International Journal of Hydrogen Energy, 2009, 34, 783-790.	3.8	106
98	Long-term stability of hydrogen and organic acids production in an anaerobic fluidized-bed reactor using heat treated anaerobic sludge inoculum. International Journal of Hydrogen Energy, 2009, 34, 3679-3688.	3.8	54
99	Control of the Emission of Ammonia Through the Adsorption in Activated Coal. , 1999, , .		0
100	Valorization of Glucose-Based Wastewater Through Production of Hydrogen, Volatile Fatty Acids and Alcohols., 0,,.		0
101	Review of Continuous Fermentative Hydrogen-Producing Bioreactors from Complex Wastewater. , 0, ,		5
102	Bioprospecting Sulfuric Acid Assisted Hydrothermal Pretreatment of Sugarcane Bagasse and Microbial Community Structure for Methane Production. Bioenergy Research, 0, , 1.	2.2	2