

Edson Luis Silva

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

1,908
citations

27
h-index

38
g-index

104
ext. papers

2,357
ext. citations

6
avg, IF

5.55
L-index

#	Paper	IF	Citations
98	Influence of ethanol and nitrate on ibuprofen removal in batch reactors under denitrifying conditions. <i>Chemical Engineering Research and Design</i> , 2022 , 160, 297-309	5.5	2
97	Microbial and functional characterization of granulated sludge from full-scale UASB thermophilic reactor applied to sugarcane vinasse treatment.. <i>Environmental Technology (United Kingdom)</i> , 2022 , 1-42	2.6	0
96	Scale-up and energy estimations of single- and two-stage vinasse anaerobic digestion systems for hydrogen and methane production. <i>Journal of Cleaner Production</i> , 2022 , 349, 131459	10.3	0
95	Potential methanogenic and degradation of nonylphenol ethoxylate from domestic sewage: unraveling the essential roles of nutritional conditions and microbial community.. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-28	2.6	1
94	New Insights into Controlling Homoacetogenesis in the Co-digestion of Coffee Waste: Effect of Operational Conditions and Characterization of Microbial Communities. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 1	3.2	1
93	Enhanced fermentative production of 1,3 propanediol by employing ethanol industry wastewater. <i>Bioresource Technology Reports</i> , 2021 , 16, 100865	4.1	0
92	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. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 12758-12770	6.7	3
91	Metataxonomic characterization of bacterial and archaeal community involved in hydrogen and methane production from citrus peel waste (<i>Citrus sinensis</i> L. Osbeck) in batch reactors. <i>Biomass and Bioenergy</i> , 2021 , 149, 106091	5.3	1
90	Anaerobic Biodegradation of Biodiesel Industry Wastewater in Mesophilic and Thermophilic Fluidized Bed Reactors: Enhancing Treatment and Methane Recovery. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 193, 3336-3350	3.2	1
89	Statistical optimization of methane production from brewery spent grain: Interaction effects of temperature and substrate concentration. <i>Journal of Environmental Management</i> , 2021 , 288, 112363	7.9	4
88	Bioaugmentation with <i>Enterococcus casseliflavus</i> : A Hydrogen-Producing Strain Isolated from Citrus Peel Waste. <i>Waste and Biomass Valorization</i> , 2021 , 12, 895-911	3.2	2
87	Screening design of nutritional and physicochemical parameters on bio-hydrogen and volatile fatty acids production from Citrus Peel Waste in batch reactors. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7794-7809	6.7	6
86	Homoacetogenesis: New insights into controlling this unsolved challenge by selecting the optimal C/N ratio, C/P ratio and hydraulic retention time. <i>Chemical Engineering Research and Design</i> , 2021 , 145, 273-284	5.5	5
85	Dissecting the role of heterogeneity and hydrothermal pretreatment of sugarcane bagasse in metabolic pathways for biofuels production. <i>Industrial Crops and Products</i> , 2021 , 160, 113120	5.9	1
84	Enzymatic routes to hydrogen and organic acids production from banana waste fermentation by autochthonous bacteria: Optimization of pH and temperature. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8454-8468	6.7	7
83	One waste and two products: choosing the best operational temperature and hydraulic retention time to recover hydrogen or 1,3-propanediol from glycerol fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 44, 2491-2502	3.7	1
82	Microbial and functional characterization of an allochthonous consortium applied to hydrogen production from Citrus Peel Waste in batch reactor in optimized conditions. <i>Journal of Environmental Management</i> , 2021 , 291, 112631	7.9	3

81	Anaerobic digestion of vinasse in fluidized bed reactors: Process robustness between two-stage thermophilic-thermophilic and thermophilic-mesophilic systems. <i>Journal of Cleaner Production</i> , 2021 , 314, 128066	10.3	9
80	Dynamics and response of microbial diversity to nutritional conditions in denitrifying bioreactor for linear alkylbenzene sulfonate removal. <i>Journal of Environmental Management</i> , 2020 , 263, 110387	7.9	5
79	Improving the hydrogen production from coffee waste through hydrothermal pretreatment, co-digestion and microbial consortium bioaugmentation. <i>Biomass and Bioenergy</i> , 2020 , 137, 105551	5.3	9
78	4-Nonylphenol degradation changes microbial community of scale-up Anaerobic Fluidized Bed Reactor. <i>Journal of Environmental Management</i> , 2020 , 267, 110575	7.9	8
77	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. <i>Cellulose</i> , 2020 , 27, 2599-2612	5.5	8
76	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. <i>Biodegradation</i> , 2020 , 31, 73-89	4.1	8
75	Statistical optimization of H ₂ , 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. <i>Biomass and Bioenergy</i> , 2020 , 138, 105575	5.3	17
74	Metagenomic analysis of autochthonous microbial biomass from banana waste: Screening design of factors that affect hydrogen production. <i>Biomass and Bioenergy</i> , 2020 , 138, 105573	5.3	13
73	Controlling methane and hydrogen production from cheese whey in an EGSB reactor by changing the HRT. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 673-684	3.7	10
72	Optimization of key factors affecting hydrogen production from coffee waste using factorial design and metagenomic analysis of the microbial community. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4205-4222	6.7	17
71	Microbial community analyses by high-throughput sequencing of rumen microorganisms fermenting office paper in mesophilic and thermophilic lysimeters. <i>Chemical Engineering Research and Design</i> , 2020 , 136, 182-193	5.5	8
70	Improved dark fermentation of cane molasses in mesophilic and thermophilic anaerobic fluidized bed reactors by selecting operational conditions. <i>International Journal of Energy Research</i> , 2020 , 44, 10442-10452	4.5	7
69	Enhancement of <i>Clostridium butyricum</i> hydrogen production by iron and nickel nanoparticles: Effects on <i>hydA</i> expression. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28447-28461	6.7	11
68	Bioconversion of pretreated sugarcane vinasse into hydrogen: new perspectives to solve one of the greatest issues of the sugarcane biorefinery. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	5
67	Methane Production from Hydrogen Peroxide Assisted Hydrothermal Pretreatment of Solid Fraction Sugarcane Bagasse. <i>Waste and Biomass Valorization</i> , 2020 , 11, 31-50	3.2	10
66	Thermophilic hydrogen and methane production from sugarcane stillage in two-stage anaerobic fluidized bed reactors. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5239-5251	6.7	18
65	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. <i>Fuel</i> , 2020 , 260, 116419	7.1	13
64	Screening and Bioprospecting of Anaerobic Consortia for Biofuel Production Enhancement from Sugarcane Bagasse. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 190, 232-251	3.2	5

63	Influence of linear alkylbenzene sulfonate and ethanol on the degradation kinetics of domestic sewage in co-digestion with commercial laundry wastewater. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 1547-1558	3.7	4
62	Experimental design and syntrophic microbial pathways for biofuel production from sugarcane bagasse under thermophilic condition. <i>Renewable Energy</i> , 2019 , 140, 852-861	8.1	13
61	HRT control as a strategy to enhance continuous hydrogen production from sugarcane juice under mesophilic and thermophilic conditions in AFBRs. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 19719-19729	6.7	18
60	Hydrogen production from sugarcane juice in expanded granular sludge bed reactors under mesophilic conditions: The role of homoacetogenesis and lactic acid production. <i>Industrial Crops and Products</i> , 2019 , 138, 111586	5.9	19
59	Hydrogen, alcohols and volatile fatty acids from the co-digestion of coffee waste (coffee pulp, husk, and processing wastewater) by applying autochthonous microorganisms. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21434-21450	6.7	34
58	Bacillus sp. isolated from banana waste and analysis of metabolic pathways in acidogenic systems in hydrogen production. <i>Journal of Environmental Management</i> , 2019 , 247, 178-186	7.9	23
57	Identification of Anionic and Nonionic Surfactant and Recalcitrants Compounds in Commercial Laundry Wastewater by GC-MS Analysis After Anaerobic Fluidized Bed Reactor Treatment. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1	2.6	6
56	Valorization of the Crude Glycerol for Propionic Acid Production Using an Anaerobic Fluidized Bed Reactor with Grounded Tires as Support Material. <i>Applied Biochemistry and Biotechnology</i> , 2018 , 186, 400-413	3.2	14
55	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. <i>Science of the Total Environment</i> , 2018 , 640-641, 1411-1423	10.2	22
54	Metagenomic analysis and optimization of hydrogen production from sugarcane bagasse. <i>Biomass and Bioenergy</i> , 2018 , 117, 78-85	5.3	19
53	Optimization of hydrogen and organic acids productions with autochthonous and allochthonous bacteria from sugarcane bagasse in batch reactors. <i>Journal of Environmental Management</i> , 2018 , 223, 952-963	7.9	30
52	Continuous hydrogen production from cofermentation of sugarcane vinasse and cheese whey in a thermophilic anaerobic fluidized bed reactor. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13081-13089	6.7	22
51	Selection of metabolic pathways for continuous hydrogen production under thermophilic and mesophilic temperature conditions in anaerobic fluidized bed reactors. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18908-18917	6.7	18
50	Hydrothermal processing of biomass for anaerobic digestion [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 98, 108-124	16.2	91
49	Optimized 1,3-propanediol production from crude glycerol using mixed cultures in batch and continuous reactors. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 1807-1816	3.7	6
48	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. <i>Science of the Total Environment</i> , 2017 , 580, 1120-1128	10.2	12
47	Influence of C/P and C/N ratios and microbial characterization in hydrogen and ethanol production in an anaerobic fluidized bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9600-9610	6.7	14
46	Bioremoval of Surfactant from Laundry Wastewater in Optimized Condition by Anoxic Reactors. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	4

45	Influence of Sucrose on the Diversity of Bacteria Involved in Nonionic Surfactant Degradation in Fluidized Bed Reactor. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	7
44	Co-Fermentation of Cheese Whey and Crude Glycerol in EGSB Reactor as a Strategy to Enhance Continuous Hydrogen and Propionic Acid Production. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 183, 712-728	3.2	14
43	Design and optimization of hydrogen production from hydrothermally pretreated sugarcane bagasse using response surface methodology. <i>Water Science and Technology</i> , 2017 , 76, 95-105	2.2	14
42	Improving EGSB reactor performance for simultaneous bioenergy and organic acid production from cheese whey via continuous biological H ₂ production. <i>Biotechnology Letters</i> , 2017 , 39, 983-991	3	7
41	Continuous thermophilic hydrogen production from cheese whey powder solution in an anaerobic fluidized bed reactor: Effect of hydraulic retention time and initial substrate concentration. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4848-4860	6.7	35
40	Continuous Hydrogen Production from Agricultural Wastewaters at Thermophilic and Hyperthermophilic Temperatures. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 182, 846-869	3.2	17
39	Phenol Biodegradation by <i>Pseudomonas putida</i> in an Airlift Reactor: Assessment of Kinetic, Hydrodynamic, and Mass Transfer Parameters. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	5
38	Review of Continuous Fermentative Hydrogen-Producing Bioreactors from Complex Wastewater 2017 ,		3
37	Effects of hydraulic retention time, co-substrate and nitrogen source on laundry wastewater anionic surfactant degradation in fluidized bed reactors. <i>Bioresource Technology</i> , 2017 , 224, 246-254	11	32
36	Characterization and antimicrobial activity of lactic acid bacteria from fermentative bioreactors during hydrogen production using cassava processing wastewater. <i>Chemical Engineering Journal</i> , 2016 , 284, 1-9	14.7	30
35	Bioconversion of waste office paper to hydrogen using pretreated rumen fluid inoculum. <i>Bioprocess and Biosystems Engineering</i> , 2016 , 39, 1887-1897	3.7	11
34	Kinetics of methane production and biodegradation of linear alkylbenzene sulfonate from laundry wastewater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016 , 51, 1288-1302	2.3	11
33	The Biological Hydrogen Production Potential of Agroindustrial Residues. <i>Waste and Biomass Valorization</i> , 2015 , 6, 273-280	3.2	11
32	Role of homo- and heterofermentative lactic acid bacteria on hydrogen-producing reactors operated with cheese whey wastewater. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 8650-8660	6.7	25
31	Sequential fermentative and phototrophic system for hydrogen production: An approach for Brazilian alcohol distillery wastewater. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9642-9655	6.7	27
30	Evaluation of bacterial community from anaerobic fluidized bed reactor for the removal of linear alkylbenzene sulfonate from laundry wastewater by 454-pyrosequence. <i>Ecological Engineering</i> , 2015 , 82, 231-240	3.9	24
29	Effects of the Organic-Loading Rate on the Performance of an Anaerobic Fluidized-Bed Reactor Treating Synthetic Wastewater Containing Phenol. <i>Journal of Environmental Engineering, ASCE</i> , 2015 , 141, 04015022	2	4
28	Effect of inoculum concentration, pH, light intensity and lighting regime on hydrogen production by phototrophic microbial consortium. <i>Renewable Energy</i> , 2015 , 75, 1-7	8.1	41

27	Evaluation of hydrogen and methane production from sugarcane vinasse in an anaerobic fluidized bed reactor. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 8498-8509	6.7	45
26	Biodegradation of linear alkylbenzene sulfonate in commercial laundry wastewater by an anaerobic fluidized bed reactor. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015 , 50, 946-57	2.3	5
25	Production of H ₂ from cellulose by rumen microorganisms: effects of inocula pre-treatment and enzymatic hydrolysis. <i>Biotechnology Letters</i> , 2014 , 36, 537-46	3	21
24	Degradation of high concentrations of nonionic surfactant (linear alcohol ethoxylate) in an anaerobic fluidized bed reactor. <i>Science of the Total Environment</i> , 2014 , 481, 121-8	10.2	31
23	Continuous thermophilic hydrogen production and microbial community analysis from anaerobic digestion of diluted sugar cane stillage. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9000-9011	6.7	45
22	Organic loading rate impact on biohydrogen production and microbial communities at anaerobic fluidized thermophilic bed reactors treating sugarcane stillage. <i>Bioresource Technology</i> , 2014 , 159, 55-63 ¹¹		52
21	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. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13118-13127	6.7	18
20	Microbial characterization and degradation of linear alkylbenzene sulfonate in an anaerobic reactor treating wastewater containing soap powder. <i>Bioresource Technology</i> , 2014 , 167, 316-23	11	48
19	Hydrogen production from diluted and raw sugarcane vinasse under thermophilic anaerobic conditions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9599-9610	6.7	49
18	Different ratios of carbon sources in the fermentation of cheese whey and glucose as substrates for hydrogen and ethanol production in continuous reactors. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1288-1296	6.7	45
17	Simultaneous coproduction of hydrogen and ethanol in anaerobic packed-bed reactors. <i>BioMed Research International</i> , 2014 , 2014, 921291	3	7
16	Hydrogen production from cheese whey with ethanol-type fermentation: effect of hydraulic retention time on the microbial community composition. <i>Bioresource Technology</i> , 2014 , 161, 10-19	11	67
15	Simultaneous removal of phenol and nitrate in an anoxic fluidized bed reactor. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013 , 48, 581-91	2.3	8
14	Influence of organic loading rate on the anaerobic treatment of sugarcane vinasse and biogas production in fluidized bed reactor. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013 , 48, 1707-16	2.3	34
13	Hydrogen and ethanol production in anaerobic fluidized bed reactors: Performance evaluation for three support materials under different operating conditions. <i>Biochemical Engineering Journal</i> , 2012 , 61, 59-65	4.2	44
12	Effect of substrate concentration on dark fermentation hydrogen production using an anaerobic fluidized bed reactor. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 166, 1248-63	3.2	56
11	Performance and composition of bacterial communities in anaerobic fluidized bed reactors for hydrogen production: Effects of organic loading rate and alkalinity. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16925-16934	6.7	34
10	Effect of upflow velocity and hydraulic retention time in anaerobic fluidized-bed reactors used for hydrogen production. <i>Chemical Engineering Journal</i> , 2011 , 172, 28-36	14.7	28

9	Performance evaluation and phylogenetic characterization of anaerobic fluidized bed reactors using ground tire and pet as support materials for biohydrogen production. <i>Bioresource Technology</i> , 2011 , 102, 3840-7	11	41
8	Performance evaluation of packing materials in the removal of hydrogen sulphide in gas-phase biofilters: Polyurethane foam, sugarcane bagasse, and coconut fibre. <i>Chemical Engineering Journal</i> , 2010 , 158, 441-450	14.7	50
7	Biohydrogen production in anaerobic fluidized bed reactors: Effect of support material and hydraulic retention time. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3379-3388	6.7	80
6	Anaerobic degradation of linear alkylbenzene sulfonate (LAS) in fluidized bed reactor by microbial consortia in different support materials. <i>Bioresource Technology</i> , 2010 , 101, 5112-22	11	54
5	Anaerobic fluidized bed reactor with expanded clay as support for hydrogen production through dark fermentation of glucose. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 783-790	6.7	87
4	Long-term stability of hydrogen and organic acids production in an anaerobic fluidized-bed reactor using heat treated anaerobic sludge inoculum. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3679-3688	6.7	49
3	Optimization of Key Factors Affecting Hydrogen and Ethanol Production from Xylose by <i>Thermoanaerobacterium calidifontis</i> VCS1 Isolated from Vinasse Treatment Sludge. <i>Waste and Biomass Valorization</i> ,1	3.2	0
2	Bioprospecting Sulfuric Acid Assisted Hydrothermal Pretreatment of Sugarcane Bagasse and Microbial Community Structure for Methane Production. <i>Bioenergy Research</i> ,1	3.1	0
1	Methane Production Using Brewery Spent Grain: Optimal Hydrothermolysis, Fermentation of Waste and Role of Microbial Populations. <i>Waste and Biomass Valorization</i> ,1	3.2	1