

Heike Str uber

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,348
citations

331670

21
h-index

361022

35
g-index

48
all docs

48
docs citations

48
times ranked

1623
citing authors

#	ARTICLE	IF	CITATIONS
1	Recirculation of H ₂ , CO ₂ , and Ethylene Improves Carbon Fixation and Carboxylate Yields in Anaerobic Fermentation. ACS Sustainable Chemistry and Engineering, 2022, 10, 4073-4081.	6.7	9
2	Machine learning-assisted identification of bioindicators predicts medium-chain carboxylate production performance of an anaerobic mixed culture. Microbiome, 2022, 10, 48.	11.1	14
3	Ensiling parameters in vertical columns and multiple kinetic models evaluation of biomethane potential of ensiled sugar beet leaves. Biofuels, 2022, 13, 995-1005.	2.4	3
4	Impact of Fungal Hyphae on Growth and Dispersal of Obligate Anaerobic Bacteria in Aerated Habitats. MBio, 2022, 13, .	4.1	7
5	Hydrogen as a Co-electron Donor for Chain Elongation With Complex Communities. Frontiers in Bioengineering and Biotechnology, 2021, 9, 650631.	4.1	30
6	A Downstream Processing Cascade for Separation of Caproic and Caprylic Acid from Maize Silage-Based Fermentation Broth. Frontiers in Bioengineering and Biotechnology, 2021, 9, 725578.	4.1	5
7	Effect of Oxygen Contamination on Propionate and Caproate Formation in Anaerobic Fermentation. Frontiers in Bioengineering and Biotechnology, 2021, 9, 725443.	4.1	11
8	Does glucose affect the deacetylation of methyl ferulate by Lactobacillus buchneri ?. MicrobiologyOpen, 2020, 9, e971.	3.0	4
9	Draft Genome Sequences of Three <i>Clostridia</i> Isolates Involved in Lactate-Based Chain Elongation. Microbiology Resource Announcements, 2020, 9, .	0.6	8
10	Beyond Sugar and Ethanol Production: Value Generation Opportunities Through Sugarcane Residues. Frontiers in Energy Research, 2020, 8, .	2.3	47
11	Three Novel Clostridia Isolates Produce n-Caproate and iso-Butyrate from Lactate: Comparative Genomics of Chain-Elongating Bacteria. Microorganisms, 2020, 8, 1970.	3.6	32
12	Microbial Resource Management for Ex Situ Biomethanation of Hydrogen at Alkaline pH. Microorganisms, 2020, 8, 614.	3.6	37
13	Competition Between Butyrate Fermenters and Chain-Elongating Bacteria Limits the Efficiency of Medium-Chain Carboxylate Production. Frontiers in Microbiology, 2020, 11, 336.	3.5	38
14	Anaerobic Fermentation of Organic Material: Biological Processes and Their Control Parameters. , 2019, , 779-807.		1
15	Syngas-aided anaerobic fermentation for medium-chain carboxylate and alcohol production: the case for microbial communities. Applied Microbiology and Biotechnology, 2019, 103, 8689-8709.	3.6	35
16	Hybridization of sugar-carboxylate-syngas platforms for the production of bio-alcohols from lignocellulosic biomass (LCB) – A state-of-the-art review and recommendations. Energy Conversion and Management, 2019, 200, 112111.	9.2	16
17	Key sub-community dynamics of medium-chain carboxylate production. Microbial Cell Factories, 2019, 18, 92.	4.0	56
18	Pre-treatment of filter cake for anaerobic digestion in sugarcane biorefineries: Assessment of batch versus semi-continuous experiments. Renewable Energy, 2019, 143, 1416-1426.	8.9	18

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19	Determination of Microbial Maintenance in Acetogenesis and Methanogenesis by Experimental and Modeling Techniques. <i>Frontiers in Microbiology</i> , 2019, 10, 166.	3.5	9
20	Ammonia Inhibition of Anaerobic Volatile Fatty Acid Degrading Microbial Communities. <i>Frontiers in Microbiology</i> , 2018, 9, 2921.	3.5	52
21	Intermittent fasting for microbes: how discontinuous feeding increases functional stability in anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2018, 11, 274.	6.2	30
22	Year-round biogas production in sugarcane biorefineries: Process stability, optimization and performance of a two-stage reactor system. <i>Energy Conversion and Management</i> , 2018, 168, 188-199.	9.2	19
23	Carboxylic acid production from ensiled crops in anaerobic solid-state fermentation – trace elements as pH controlling agents support microbial chain elongation with lactic acid. <i>Engineering in Life Sciences</i> , 2018, 18, 447-458.	3.6	23
24	Anaerobic Fermentation of Organic Material: Biological Processes and Their Control Parameters. , 2018, , 1-30.		0
25	Anaerobic Digestion. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2017, 166, 281-299.	1.1	8
26	Inhibitory Effect of Coumarin on Syntrophic Fatty Acid-Oxidizing and Methanogenic Cultures and Biogas Reactor Microbiomes. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	37
27	Production of drop-in fuels from biomass at high selectivity by combined microbial and electrochemical conversion. <i>Energy and Environmental Science</i> , 2017, 10, 2231-2244.	30.8	126
28	Methane yield of biomass from extensive grassland is affected by compositional changes induced by order of arrival. <i>GCB Bioenergy</i> , 2017, 9, 1555-1562.	5.6	6
29	Trace Elements Induce Predominance among Methanogenic Activity in Anaerobic Digestion. <i>Frontiers in Microbiology</i> , 2016, 7, 2034.	3.5	78
30	The alkaloid gramine in the anaerobic digestion process – inhibition and adaptation of the methanogenic community. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7311-7322.	3.6	28
31	Statistical Interpretation of Semi-Continuous Anaerobic Digestion Experiments on the Laboratory Scale. <i>Chemical Engineering and Technology</i> , 2016, 39, 643-651.	1.5	7
32	Optimization of hydrolysis and volatile fatty acids production from sugarcane filter cake: Effects of urea supplementation and sodium hydroxide pretreatment. <i>Bioresource Technology</i> , 2016, 199, 235-244.	9.6	42
33	Metabolic and microbial community dynamics during the anaerobic digestion of maize silage in a two-phase process. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 479-491.	3.6	77
34	Biogaserzeugung und -nutzung. , 2016, , 1609-1755.		2
35	Microbiomes and Electroorganic Synthesis – A Fruitful Liaison for the Production of Renewable Chemicals?!. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1252-1252.	0.8	0
36	Improved Anaerobic Fermentation of Wheat Straw by Alkaline Pre-Treatment and Addition of Alkali-Tolerant Microorganisms. <i>Bioengineering</i> , 2015, 2, 66-93.	3.5	40

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37	Biogas production from coumarin-rich plantsâ€”inhibition by coumarin and recovery by adaptation of the bacterial community. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv103.	2.7	28
38	Evaluation of stable isotope fingerprinting techniques for the assessment of the predominant methanogenic pathways in anaerobic digesters. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2251-2262.	3.6	46
39	Metabolic and microbial community dynamics during the hydrolytic and acidogenic fermentation in a leach-bed process. <i>Energy, Sustainability and Society</i> , 2012, 2, .	3.8	90
40	NBDT (3-((7-nitrobenzo[2,1-b]oxazol-4-yl)amino)-3-ethyltoluene)â€”A novel fluorescent dye for studying mechanisms of toluene uptake into vital bacteria. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 113-120.	1.5	7
41	Viability states of bacteriaâ€”Specific mechanisms of selected probes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 623-634.	1.5	154
42	Prediction of flocculation ability of brewing yeast inoculates by flow cytometry, proteome analysis, and mRNA profiling. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 140-147.	1.5	23
43	Evidence of cytochrome P450-catalyzed cleavage of the ether bond of phenoxybutyrate herbicides in <i>Rhodococcus erythropolis</i> K2-3. <i>Biodegradation</i> , 2003, 14, 41-50.	3.0	18
44	Population analysis of a binary bacterial culture by multi-parametric flow cytometry. <i>Journal of Biotechnology</i> , 2002, 97, 163-176.	3.8	19