Heike StrÃ¤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	Viability states of bacteriaâ€"Specific mechanisms of selected probes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 623-634.	1.5	154
2	Production of drop-in fuels from biomass at high selectivity by combined microbial and electrochemical conversion. Energy and Environmental Science, 2017, 10, 2231-2244.	30.8	126
3	Metabolic and microbial community dynamics during the hydrolytic and acidogenic fermentation in a leach-bed process. Energy, Sustainability and Society, 2012, 2, .	3.8	90
4	Trace Elements Induce Predominance among Methanogenic Activity in Anaerobic Digestion. Frontiers in Microbiology, 2016, 7, 2034.	3.5	78
5	Metabolic and microbial community dynamics during the anaerobic digestion of maize silage in a two-phase process. Applied Microbiology and Biotechnology, 2016, 100, 479-491.	3.6	77
6	Key sub-community dynamics of medium-chain carboxylate production. Microbial Cell Factories, 2019, 18, 92.	4.0	56
7	Ammonia Inhibition of Anaerobic Volatile Fatty Acid Degrading Microbial Communities. Frontiers in Microbiology, 2018, 9, 2921.	3.5	52
8	Beyond Sugar and Ethanol Production: Value Generation Opportunities Through Sugarcane Residues. Frontiers in Energy Research, 2020, 8, .	2.3	47
9	Evaluation of stable isotope fingerprinting techniques for the assessment of the predominant methanogenic pathways in anaerobic digesters. Applied Microbiology and Biotechnology, 2013, 97, 2251-2262.	3.6	46
10	Optimization of hydrolysis and volatile fatty acids production from sugarcane filter cake: Effects of urea supplementation and sodium hydroxide pretreatment. Bioresource Technology, 2016, 199, 235-244.	9.6	42
11	Improved Anaerobic Fermentation of Wheat Straw by Alkaline Pre-Treatment and Addition of Alkali-Tolerant Microorganisms. Bioengineering, 2015, 2, 66-93.	3.5	40
12	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
13	Inhibitory Effect of Coumarin on Syntrophic Fatty Acid-Oxidizing and Methanogenic Cultures and Biogas Reactor Microbiomes. Applied and Environmental Microbiology, 2017, 83, .	3.1	37
14	Microbial Resource Management for Ex Situ Biomethanation of Hydrogen at Alkaline pH. Microorganisms, 2020, 8, 614.	3.6	37
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	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
17	Intermittent fasting for microbes: how discontinuous feeding increases functional stability in anaerobic digestion. Biotechnology for Biofuels, 2018, 11, 274.	6.2	30
18	Hydrogen as a Co-electron Donor for Chain Elongation With Complex Communities. Frontiers in Bioengineering and Biotechnology, 2021, 9, 650631.	4.1	30

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19	Biogas production from coumarin-rich plantsâ€"inhibition by coumarin and recovery by adaptation of the bacterial community. FEMS Microbiology Ecology, 2015, 91, fiv103.	2.7	28
20	The alkaloid gramine in the anaerobic digestion processâ€"inhibition and adaptation of the methanogenic community. Applied Microbiology and Biotechnology, 2016, 100, 7311-7322.	3.6	28
21	Prediction of flocculation ability of brewing yeast inoculates by flow cytometry, proteome analysis, and mRNA profiling. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 140-147.	1.5	23
22	Carboxylic acid production from ensiled crops in anaerobic solidâ€state fermentation â€trace elements as pH controlling agents support microbial chain elongation with lactic acid. Engineering in Life Sciences, 2018, 18, 447-458.	3.6	23
23	Population analysis of a binary bacterial culture by multi-parametric flow cytometry. Journal of Biotechnology, 2002, 97, 163-176.	3.8	19
24	Year-round biogas production in sugarcane biorefineries: Process stability, optimization and performance of a two-stage reactor system. Energy Conversion and Management, 2018, 168, 188-199.	9.2	19
25	Evidence of cytochrome P450-catalyzed cleavage of the ether bond of phenoxybutyrate herbicides in Rhodococcus erythropolis K2-3. Biodegradation, 2003, 14, 41-50.	3.0	18
26	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
27	Hybridization of sugar-carboxylate-syngas platforms for the production of bio-alcohols from lignocellulosic biomass (LCB) â€" A state-of-the-art review and recommendations. Energy Conversion and Management, 2019, 200, 112111.	9.2	16
28	Machine learning-assisted identification of bioindicators predicts medium-chain carboxylate production performance of an anaerobic mixed culture. Microbiome, 2022, 10, 48.	11.1	14
29	Effect of Oxygen Contamination on Propionate and Caproate Formation in Anaerobic Fermentation. Frontiers in Bioengineering and Biotechnology, 2021, 9, 725443.	4.1	11
30	Determination of Microbial Maintenance in Acetogenesis and Methanogenesis by Experimental and Modeling Techniques. Frontiers in Microbiology, 2019, 10, 166.	3.5	9
31	Recirculation of H₂, CO₂, and Ethylene Improves Carbon Fixation and Carboxylate Yields in Anaerobic Fermentation. ACS Sustainable Chemistry and Engineering, 2022, 10, 4073-4081.	6.7	9
32	Anaerobic Digestion. Advances in Biochemical Engineering/Biotechnology, 2017, 166, 281-299.	1.1	8
33	Draft Genome Sequences of Three Clostridia Isolates Involved in Lactate-Based Chain Elongation. Microbiology Resource Announcements, 2020, 9, .	0.6	8
34	NBDT (3â€(Nâ€(7â€nitrobenzâ€2â€oxaâ€1,3â€diazolâ€4â€yl)amino)â€3â€toluene)â€"A novel fluorescent dye for studying mechanisms of toluene uptake into vital bacteria. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 113-120.	1.5	7
35	Statistical Interpretation of Semiâ€Continuous Anaerobic Digestion Experiments on the Laboratory Scale. Chemical Engineering and Technology, 2016, 39, 643-651.	1.5	7
36	Impact of Fungal Hyphae on Growth and Dispersal of Obligate Anaerobic Bacteria in Aerated Habitats. MBio, 2022, 13, .	4.1	7

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37	Methane yield of biomass from extensive grassland is affected by compositional changes induced by order of arrival. GCB Bioenergy, 2017, 9, 1555-1562.	5.6	6
38	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
39	Does glucose affect the deâ€esterification of methyl ferulate by Lactobacillus buchneri ?. MicrobiologyOpen, 2020, 9, e971.	3.0	4
40	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
41	Biogaserzeugung und -nutzung. , 2016, , 1609-1755.		2
42	Anaerobic Fermentation of Organic Material: Biological Processes and Their Control Parameters. , 2019, , 779-807.		1
43	Microbiomes and Electroorganic Synthesis â€“ A Fruitful Liaison for the Production of Renewable Chemicals?!. Chemie-Ingenieur-Technik, 2016, 88, 1252-1252.	0.8	0
44	Anaerobic Fermentation of Organic Material: Biological Processes and Their Control Parameters. , 2018, , 1-30.		0