

# Heike StrÄuber

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,348  
citations

331259

21  
h-index

360668

35  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viability states of bacteria—Specific mechanisms of selected probes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 623-634.	1.1	154
2	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.	15.6	126
3	Metabolic and microbial community dynamics during the hydrolytic and acidogenic fermentation in a leach-bed process. <i>Energy, Sustainability and Society</i> , 2012, 2, .	1.7	90
4	Trace Elements Induce Predominance among Methanogenic Activity in Anaerobic Digestion. <i>Frontiers in Microbiology</i> , 2016, 7, 2034.	1.5	78
5	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.	1.7	77
6	Key sub-community dynamics of medium-chain carboxylate production. <i>Microbial Cell Factories</i> , 2019, 18, 92.	1.9	56
7	Ammonia Inhibition of Anaerobic Volatile Fatty Acid Degrading Microbial Communities. <i>Frontiers in Microbiology</i> , 2018, 9, 2921.	1.5	52
8	Beyond Sugar and Ethanol Production: Value Generation Opportunities Through Sugarcane Residues. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	47
9	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.	1.7	46
10	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.	4.8	42
11	Improved Anaerobic Fermentation of Wheat Straw by Alkaline Pre-Treatment and Addition of Alkali-Tolerant Microorganisms. <i>Bioengineering</i> , 2015, 2, 66-93.	1.6	40
12	Competition Between Butyrate Fermenters and Chain-Elongating Bacteria Limits the Efficiency of Medium-Chain Carboxylate Production. <i>Frontiers in Microbiology</i> , 2020, 11, 336.	1.5	38
13	Inhibitory Effect of Coumarin on Syntrophic Fatty Acid-Oxidizing and Methanogenic Cultures and Biogas Reactor Microbiomes. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	37
14	Microbial Resource Management for Ex Situ Biomethanation of Hydrogen at Alkaline pH. <i>Microorganisms</i> , 2020, 8, 614.	1.6	37
15	Syngas-aided anaerobic fermentation for medium-chain carboxylate and alcohol production: the case for microbial communities. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8689-8709.	1.7	35
16	Three Novel Clostridia Isolates Produce n-Caproate and iso-Butyrate from Lactate: Comparative Genomics of Chain-Elongating Bacteria. <i>Microorganisms</i> , 2020, 8, 1970.	1.6	32
17	Intermittent fasting for microbes: how discontinuous feeding increases functional stability in anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2018, 11, 274.	6.2	30
18	Hydrogen as a Co-electron Donor for Chain Elongation With Complex Communities. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 650631.	2.0	30

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19	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.	1.3	28
20	The alkaloid gramine in the anaerobic digestion processâ€”inhibition and adaptation of the methanogenic community. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7311-7322.	1.7	28
21	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.	1.1	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. <i>Engineering in Life Sciences</i> , 2018, 18, 447-458.	2.0	23
23	Population analysis of a binary bacterial culture by multi-parametric flow cytometry. <i>Journal of Biotechnology</i> , 2002, 97, 163-176.	1.9	19
24	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.	4.4	19
25	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.	1.5	18
26	Pre-treatment of filter cake for anaerobic digestion in sugarcane biorefineries: Assessment of batch versus semi-continuous experiments. <i>Renewable Energy</i> , 2019, 143, 1416-1426.	4.3	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. <i>Energy Conversion and Management</i> , 2019, 200, 112111.	4.4	16
28	Machine learning-assisted identification of bioindicators predicts medium-chain carboxylate production performance of an anaerobic mixed culture. <i>Microbiome</i> , 2022, 10, 48.	4.9	14
29	Effect of Oxygen Contamination on Propionate and Caproate Formation in Anaerobic Fermentation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 725443.	2.0	11
30	Determination of Microbial Maintenance in Acetogenesis and Methanogenesis by Experimental and Modeling Techniques. <i>Frontiers in Microbiology</i> , 2019, 10, 166.	1.5	9
31	Recirculation of H <sub>2</sub> , CO <sub>2</sub> , and Ethylene Improves Carbon Fixation and Carboxylate Yields in Anaerobic Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4073-4081.	3.2	9
32	Anaerobic Digestion. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2017, 166, 281-299.	0.6	8
33	Draft Genome Sequences of Three <i>Clostridia</i> Isolates Involved in Lactate-Based Chain Elongation. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	8
34	NBDT (3-(7-nitrobenzo[2,1-b]oxazol-4-yl)amino)propane-1-toluene)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.	1.1	7
35	Statistical Interpretation of Semi-Continuous Anaerobic Digestion Experiments on the Laboratory Scale. <i>Chemical Engineering and Technology</i> , 2016, 39, 643-651.	0.9	7
36	Impact of Fungal Hyphae on Growth and Dispersal of Obligate Anaerobic Bacteria in Aerated Habitats. <i>MBio</i> , 2022, 13, .	1.8	7

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37	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.	2.5	6
38	A Downstream Processing Cascade for Separation of Caproic and Caprylic Acid from Maize Silage-Based Fermentation Broth. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 725578.	2.0	5
39	Does glucose affect the deacetylation of methyl ferulate by <i>Lactobacillus buchneri</i> ? <i>MicrobiologyOpen</i> , 2020, 9, e971.	1.2	4
40	Ensiling parameters in vertical columns and multiple kinetic models evaluation of biomethane potential of ensiled sugar beet leaves. <i>Biofuels</i> , 2022, 13, 995-1005.	1.4	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 – A Fruitful Liaison for the Production of Renewable Chemicals?!. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1252-1252.	0.4	0
44	Anaerobic Fermentation of Organic Material: Biological Processes and Their Control Parameters. , 2018, , 1-30.		0