

# Monika Heiermann

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

2,015  
citations

361296

20  
h-index

330025

37  
g-index

41  
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41  
docs citations

41  
times ranked

2198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical and Enzymatic Synthesis of Biobased Xylo-Oligosaccharides and Fermentable Sugars from Wheat Straw for Food Applications. <i>Polymers</i> , 2022, 14, 1336.	2.0	18
2	Multi-advantageous sorghum as feedstock for biogas production: A comparison between single-stage and two-stage anaerobic digestion systems.. <i>Journal of Cleaner Production</i> , 2022, 358, 131985.	4.6	10
3	Effects of sorghum biomass quality on ensilability and methane yield. <i>GCB Bioenergy</i> , 2021, 13, 803-822.	2.5	4
4	Effect of Liquid Hot Water Pretreatment on Hydrolysates Composition and Methane Yield of Rice Processing Residue. <i>Energies</i> , 2021, 14, 3254.	1.6	8
5	The Future Agricultural Biogas Plant in Germany: A Vision. <i>Energies</i> , 2019, 12, 396.	1.6	123
6	Can Energy Cropping for Biogas Production Diversify Crop Rotations? Findings from a Multi-Site Experiment in Germany. <i>Bioenergy Research</i> , 2019, 12, 123-136.	2.2	3
7	Metaproteome analysis reveals that syntrophy, competition, and phage-host interaction shape microbial communities in biogas plants. <i>Microbiome</i> , 2019, 7, 69.	4.9	88
8	<i>Synchytrium endobioticum</i> "risk from biogas plants?". <i>EPPO Bulletin</i> , 2019, 49, 92-103.	0.6	0
9	Marker microbiome clusters are determined by operational parameters and specific key taxa combinations in anaerobic digestion. <i>Bioresource Technology</i> , 2018, 263, 128-135.	4.8	58
10	The MiLA tool: Modeling greenhouse gas emissions and cumulative energy demand of energy crop cultivation in rotation. <i>Agricultural Systems</i> , 2017, 152, 67-79.	3.2	12
11	Impact of Energy Crop Rotation Design on Multiple Aspects of Resource Efficiency. <i>Chemical Engineering and Technology</i> , 2017, 40, 323-332.	0.9	2
12	Diagnostic concept for dynamically operated biogas production plants. <i>Renewable Energy</i> , 2016, 96, 479-489.	4.3	18
13	Energy balance, greenhouse gas emissions, and profitability of thermobarical pretreatment of cattle waste in anaerobic digestion. <i>Waste Management</i> , 2016, 49, 390-410.	3.7	24
14	Biogas crops grown in energy crop rotations: Linking chemical composition and methane production characteristics. <i>Bioresource Technology</i> , 2016, 206, 23-35.	4.8	129
15	Production of xylooligosaccharides from renewable agricultural lignocellulose biomass. <i>Biofuels</i> , 2015, 6, 147-155.	1.4	23
16	Improving aerobic stability and biogas production of maize silage using silage additives. <i>Bioresource Technology</i> , 2015, 197, 393-403.	4.8	69
17	Antagonistic Effects on the Methane Yield of Liquid Hot-Water Pretreated Press Mud Fractions Co-digested with Vinasse. <i>Energy &amp; Fuels</i> , 2015, 29, 7284-7289.	2.5	4
18	Community shifts in a well-operating agricultural biogas plant: how process variations are handled by the microbiome. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7791-7803.	1.7	64

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19	Hygiene and Sanitation in Biogas Plants. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 151, 63-99.	0.6	16
20	Biomass from landscape management of grassland used for biogas production: effects of harvest date and silage additives on feedstock quality and methane yield. <i>Grass and Forage Science</i> , 2014, 69, 549-566.	1.2	51
21	Effects of thermobarical pretreatment of cattle waste as feedstock for anaerobic digestion. <i>Waste Management</i> , 2014, 34, 522-529.	3.7	17
22	Kinetics of inactivation and dilution effects on the mass balance of fungal phytopathogens in anaerobic digesters. <i>Journal of Environmental Management</i> , 2014, 133, 116-120.	3.8	2
23	Effect of liquid hot water pre-treatment on sugarcane press mud methane yield. <i>Bioresource Technology</i> , 2014, 169, 284-290.	4.8	74
24	Sample prefractionation with liquid isoelectric focusing enables in depth microbial metaproteome analysis of mesophilic and thermophilic biogas plants. <i>Anaerobe</i> , 2014, 29, 59-67.	1.0	68
25	Viability of Plant Pathogenic Fungi Reduced by Anaerobic Digestion. <i>Bioenergy Research</i> , 2013, 6, 966-973.	2.2	12
26	Metaproteome analysis of the microbial communities in agricultural biogas plants. <i>New Biotechnology</i> , 2013, 30, 614-622.	2.4	92
27	Particle Size Reduction during Harvesting of Crop Feedstock for Biogas Production I: Effects on Ensiling Process and Methane Yields. <i>Bioenergy Research</i> , 2012, 5, 926-936.	2.2	69
28	Particle Size Reduction During Harvesting of Crop Feedstock for Biogas Production II: Effects on Energy Balance, Greenhouse Gas Emissions and Profitability. <i>Bioenergy Research</i> , 2012, 5, 937-948.	2.2	23
29	Enhanced Methane Formation through Application of Enzymes: Results from Continuous Digestion Tests. <i>Energy &amp; Fuels</i> , 2011, 25, 5378-5386.	2.5	16
30	Influence of chopping length on capacities, labour time requirement and costs in the harvest and ensiling chain of maize. <i>Biosystems Engineering</i> , 2011, 110, 310-320.	1.9	11
31	Concepts and profitability of biogas production from landscape management grass. <i>Bioresource Technology</i> , 2011, 102, 2086-2092.	4.8	32
32	Effects of ensiling, silage additives and storage period on methane formation of biogas crops. <i>Bioresource Technology</i> , 2011, 102, 5153-5161.	4.8	223
33	Abundance of trace elements in demonstration biogas plants. <i>Biosystems Engineering</i> , 2011, 108, 57-65.	1.9	187
34	Environmental impact of energy crop cultivation. <i>Archives of Agronomy and Soil Science</i> , 2011, 57, 805-837.	1.3	8
35	Extracellular polysaccharide (EPS) production by a novel strain of yeast-like fungus <i>Aureobasidium pullulans</i> . <i>Carbohydrate Polymers</i> , 2010, 82, 728-732.	5.1	72
36	Sustainability of Energy Crop Cultivation in Central Europe. <i>Sustainable Agriculture Reviews</i> , 2010, , 109-145.	0.6	5

#	ARTICLE	IF	CITATIONS
37	Bioenergy from permanent grassland – A review: 2. Combustion. Bioresource Technology, 2009, 100, 4945-4954.	4.8	133
38	Bioenergy from permanent grassland – A review: 1. Biogas. Bioresource Technology, 2009, 100, 4931-4944.	4.8	239
39	Viability of Wildflower Seeds After Mesophilic Anaerobic Digestion in Lab-Scale Biogas Reactors. Frontiers in Plant Science, 0, 13, .	1.7	2