

Andreas Otto Wagner

List of Publications by Year in descending order

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57
papers

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304602

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Biological Pretreatment Strategies for Second-Generation Lignocellulosic Resources to Enhance Biogas Production. <i>Energies</i> , 2018, 11, 1797.	1.6	169
2	Removal of Free Extracellular DNA from Environmental Samples by Ethidium Monoazide and Propidium Monoazide. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2537-2539.	1.4	129
3	Impact of protein-, lipid- and cellulose-containing complex substrates on biogas production and microbial communities in batch experiments. <i>Science of the Total Environment</i> , 2013, 458-460, 256-266.	3.9	68
4	Microbial community related to volatile organic compound (VOC) emission in household biowaste. <i>Environmental Microbiology</i> , 2006, 8, 1960-1974.	1.8	61
5	Biological pre-treatment: Enhancing biogas production using the highly cellulolytic fungus <i>Trichoderma viride</i> . <i>Waste Management</i> , 2015, 43, 98-107.	3.7	58
6	A closed loop for municipal organic solid waste by lactic acid fermentation. <i>Bioresource Technology</i> , 2015, 175, 142-151.	4.8	49
7	Improvement of methane generation capacity by aerobic pre-treatment of organic waste with a cellulolytic <i>Trichoderma viride</i> culture. <i>Journal of Environmental Management</i> , 2013, 129, 357-360.	3.8	47
8	Temperature shapes the microbiota in anaerobic digestion and drives efficiency to a maximum at 45°C. <i>Bioresource Technology</i> , 2018, 269, 309-318.	4.8	43
9	Survival of bacterial pathogens during the thermophilic anaerobic digestion of biowaste: Laboratory experiments and in situ validation. <i>Anaerobe</i> , 2008, 14, 181-183.	1.0	42
10	Effects of different nitrogen sources on the biogas production – a lab-scale investigation. <i>Microbiological Research</i> , 2012, 167, 630-636.	2.5	42
11	Effect of DNA extraction procedure, repeated extraction and ethidium monoazide (EMA)/propidium monoazide (PMA) treatment on overall DNA yield and impact on microbial fingerprints for bacteria, fungi and archaea in a reference soil. <i>Applied Soil Ecology</i> , 2015, 93, 56-64.	2.1	42
12	Plant species, temperature, and bedrock affect net methane flux out of grassland and forest soils. <i>Plant and Soil</i> , 2017, 410, 193-206.	1.8	38
13	Abundance and potential metabolic activity of methanogens in well-aerated forest and grassland soils of an alpine region. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiv171.	1.3	36
14	Hydrogenotrophic Methanogenesis and Autotrophic Growth of <i>Methanosarcina thermophila</i> . <i>Archaea</i> , 2018, 2018, 1-7.	2.3	35
15	Application of Denaturing High-Performance Liquid Chromatography in Microbial Ecology: Fermentor Sludge, Compost, and Soil Community Profiling. <i>Applied and Environmental Microbiology</i> , 2009, 75, 956-964.	1.4	34
16	Effects of various fatty acid amendments on a microbial digester community in batch culture. <i>Waste Management</i> , 2011, 31, 431-437.	3.7	34
17	Reduction of accumulated volatile fatty acids by an acetate-degrading enrichment culture. <i>FEMS Microbiology Ecology</i> , 2010, 71, 469-478.	1.3	32
18	Effects of fertilisation, temperature and water content on microbial properties and methane production and methane oxidation in subalpine soils. <i>European Journal of Soil Biology</i> , 2014, 65, 96-106.	1.4	32

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19	Survival of selected pathogens in diluted sludge of a thermophilic waste treatment plant and in NaCl-solution under aerobic and anaerobic conditions. <i>Waste Management</i> , 2009, 29, 425-429.	3.7	31
20	Effect of different acetate:propionate ratios on the methanogenic community during thermophilic anaerobic digestion in batch experiments. <i>Biochemical Engineering Journal</i> , 2014, 90, 154-161.	1.8	30
21	Biowaste: A <i>Lactobacillus</i> habitat and lactic acid fermentation substrate. <i>Bioresource Technology</i> , 2013, 143, 647-652.	4.8	29
22	Sample preparation, preservation, and storage for volatile fatty acid quantification in biogas plants. <i>Engineering in Life Sciences</i> , 2017, 17, 132-139.	2.0	24
23	Effect of sulfate addition on carbon flow and microbial community composition during thermophilic digestion of cellulose. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4605-4615.	1.7	24
24	Methane-cycling microorganisms in soils of a high-alpine altitudinal gradient. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw009.	1.3	22
25	Medium Preparation for the Cultivation of Microorganisms under Strictly Anaerobic/Anoxic Conditions. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	22
26	Process parameters within a 750,000litre anaerobic digester during a year of disturbed fermenter performance. <i>Waste Management</i> , 2009, 29, 1838-1843.	3.7	21
27	Archaeal Distribution in Moonmilk Deposits from Alpine Caves and Their Ecophysiological Potential. <i>Microbial Ecology</i> , 2016, 71, 686-699.	1.4	21
28	Detection and Stability of SARS-CoV-2 Fragments in Wastewater: Impact of Storage Temperature. <i>Pathogens</i> , 2021, 10, 1215.	1.2	21
29	Utilisation of single added fatty acids by consortia of digester sludge in batch culture. <i>Waste Management</i> , 2010, 30, 1822-1827.	3.7	20
30	Formation of phenylacetic acid and phenylpropionic acid under different overload conditions during mesophilic and thermophilic anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2019, 12, 26.	6.2	19
31	Biodegradation of lignin monomers and bioconversion of ferulic acid to vanillic acid by <i>Paraburkholderia aromaticivorans</i> AR20-38 isolated from Alpine forest soil. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 2967-2977.	1.7	19
32	Cultivation of moonmilk-born non-extremophilic <i>Thaumarchaeota</i> and <i>Euryarchaeota</i> in mixed culture. <i>Anaerobe</i> , 2014, 29, 73-79.	1.0	18
33	Detection and abundance of SARS-CoV-2 in wastewater in Liechtenstein, and the estimation of prevalence and impact of the B.1.1.7 variant. <i>Journal of Water and Health</i> , 2022, 20, 114-125.	1.1	18
34	Microbial Succession during Thermophilic Digestion: The Potential of <i>Methanosarcina</i> sp. <i>PLoS ONE</i> , 2014, 9, e86967.	1.1	17
35	Methane yields and methanogenic community changes during co-fermentation of cattle slurry with empty fruit bunches of oil palm. <i>Bioresource Technology</i> , 2015, 175, 619-623.	4.8	17
36	Biomethanation at 45°C offers high process efficiency and supports hygienisation. <i>Bioresource Technology</i> , 2020, 300, 122671.	4.8	17

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37	Reactor performance of a 750Âm3 anaerobic digestion plant: Varied substrate input conditions impacting methanogenic community. <i>Anaerobe</i> , 2014, 29, 29-33.	1.0	16
38	Lactic acid fermentation within a cascading approach for biowaste treatment. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3029-3040.	1.7	16
39	Microbial and Phenyl Acid Dynamics during the Start-up Phase of Anaerobic Straw Degradation in Meso- and Thermophilic Batch Reactors. <i>Microorganisms</i> , 2019, 7, 657.	1.6	15
40	pH and Phosphate Induced Shifts in Carbon Flow and Microbial Community during Thermophilic Anaerobic Digestion. <i>Microorganisms</i> , 2020, 8, 286.	1.6	14
41	Proposal of <i>Thermoactinomyces mirandus</i> sp. nov., a filamentous, anaerobic bacterium isolated from a biogas plant. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 45-54.	0.7	13
42	The glutamyl tail length of the cofactor F420 in the methanogenic Archaea <i>Methanosarcina thermophila</i> and <i>Methanoculleus thermophilus</i> . <i>Science of the Total Environment</i> , 2022, 809, 151112.	3.9	13
43	Methanogenic potential of formate in thermophilic anaerobic digestion. <i>Waste Management and Research</i> , 2012, 30, 1031-1040.	2.2	12
44	New Undescribed Lineages of Non-extremophilic Archaea Form a Homogeneous and Dominant Element Within Alpine Moonmilk Microbiomes. <i>Geomicrobiology Journal</i> , 2015, 32, 890-902.	1.0	12
45	Chemical and Biochemical Parameters During Composting of Lawn Clippings with Special Regard to the Efficiency of a Compost Starter Kit. <i>Compost Science and Utilization</i> , 2007, 15, 40-46.	1.2	10
46	A simple method for the enumeration of methanogens by most probable number counting. <i>Biomass and Bioenergy</i> , 2012, 45, 311-314.	2.9	10
47	Methanogenic activities in alpine soils. <i>Folia Microbiologica</i> , 2012, 57, 371-373.	1.1	8
48	Microbial community dynamics in mesophilic and thermophilic batch reactors under methanogenic, phenyl acid-forming conditions. <i>Biotechnology for Biofuels</i> , 2020, 13, 81.	6.2	8
49	Lignin intermediates lead to phenyl acid formation and microbial community shifts in meso- and thermophilic batch reactors. <i>Biotechnology for Biofuels</i> , 2021, 14, 27.	6.2	8
50	Using Digestate Compost as a Substrate for Anaerobic Digestion. <i>Chemical Engineering and Technology</i> , 2018, 41, 747-754.	0.9	6
51	Low-Temperature Biodegradation of Lignin-Derived Aromatic Model Monomers by the Cold-Adapted Yeast <i>Rhodospiridiobolus colostri</i> Isolated from Alpine Forest Soil. <i>Microorganisms</i> , 2022, 10, 515.	1.6	5
52	Can the addition of biochar improve the performance of biogas digesters operated at 45Â°C?. <i>Environmental Engineering Research</i> , 2022, 27, 200648-0.	1.5	3
53	Extraction of Cofactor F₄₂₀ for Analysis of Polyglutamate Tail Length from Methanogenic Pure Cultures and Environmental Samples. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	3
54	Potential methane production and oxidation along the soil chronosequence of the Rotmoos glacier forefield. <i>Bodenkultur</i> , 2019, 70, 19-31.	0.1	1

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55	No oxygen-still vigorous: 8th International Symposium on Anaerobic Microbiology (ISAM 8) Innsbruck, Austria. <i>Anaerobe</i> , 2014, 29, 1-2.	1.0	0
56	Spiking a Silty-Sand Reference Soil with Bacterial DNA: Limits and Pitfalls in the Discrimination of Live and Dead Cells When Applying Ethidium Monoazide (EMA) Treatment. <i>Current Microbiology</i> , 2019, 76, 1425-1434.	1.0	0
57	Editorial: Exploring the Role and Function of the Microbiota in Terrestrial Anaerobic Environments and Their Potential Biotechnological Application. <i>Frontiers in Microbiology</i> , 2021, 12, 722268.	1.5	0