

Hans Oechsner

List of Publications by Year in descending order

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76
papers

3,221
citations

186209

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55
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78
all docs

78
docs citations

78
times ranked

3292
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a standardization of biomethane potential tests. <i>Water Science and Technology</i> , 2016, 74, 2515-2522.	1.2	592
2	Anaerobic digestion of lignocellulosic biomass: Challenges and opportunities. <i>Bioresource Technology</i> , 2015, 178, 178-186.	4.8	541
3	Anaerobic biorefinery: Current status, challenges, and opportunities. <i>Bioresource Technology</i> , 2016, 215, 304-313.	4.8	166
4	Biological hydrogen methanation – A review. <i>Bioresource Technology</i> , 2017, 245, 1220-1228.	4.8	147
5	Biogas production with horse dung in solid-phase digestion systems. <i>Bioresource Technology</i> , 2008, 99, 1280-1292.	4.8	96
6	Effect of ethylenediaminetetraacetic acid (EDTA) on the bioavailability of trace elements during anaerobic digestion. <i>Chemical Engineering Journal</i> , 2013, 223, 436-441.	6.6	82
7	Methane yield potential of novel perennial biogas crops influenced by harvest date. <i>Industrial Crops and Products</i> , 2014, 58, 194-203.	2.5	76
8	Effects of target pH-value on organic acids and methane production in two-stage anaerobic digestion of vegetable waste. <i>Bioresource Technology</i> , 2018, 247, 96-102.	4.8	69
9	Degradation efficiency of agricultural biogas plants – A full-scale study. <i>Bioresource Technology</i> , 2015, 178, 341-349.	4.8	68
10	Is the continuous two-stage anaerobic digestion process well suited for all substrates?. <i>Bioresource Technology</i> , 2016, 200, 470-476.	4.8	60
11	Electric Energy Consumption of the Full Scale Research Biogas Plant – Unterer Lindenhof – Results of Longterm and Full Detail Measurements. <i>Energies</i> , 2012, 5, 5198-5214.	1.6	57
12	Effect of agitation time on nutrient distribution in full-scale CSTR biogas digesters. <i>Bioresource Technology</i> , 2018, 247, 1-6.	4.8	56
13	Exponential model describing methane production kinetics in batch anaerobic digestion: a tool for evaluation of biochemical methane potential assays. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1759-1770.	1.7	53
14	Repeatability of a laboratory batch method to determine the specific biogas and methane yields. <i>Engineering in Life Sciences</i> , 2012, 12, 270-278.	2.0	52
15	Methane formation potential of cup plant (<i>Silphium perfoliatum</i>). <i>Biomass and Bioenergy</i> , 2015, 75, 126-133.	2.9	51
16	Enhancement of methane production with horse manure supplement and pretreatment in a full-scale biogas process. <i>Energy</i> , 2014, 73, 523-530.	4.5	50
17	Effects of mechanical treatment of digestate after anaerobic digestion on the degree of degradation. <i>Bioresource Technology</i> , 2015, 178, 194-200.	4.8	50
18	Effect of different pH-values on process parameters in two-phase anaerobic digestion of high-solid substrates. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 198-207.	1.2	49

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19	Mineral substances and macronutrients in the anaerobic conversion of biomass: An impact evaluation. <i>Engineering in Life Sciences</i> , 2012, 12, 287-294.	2.0	41
20	Influence of anaerobic digestion on the labile phosphorus in pig, chicken, and dairy manure. <i>Science of the Total Environment</i> , 2020, 737, 140234.	3.9	40
21	Valorization of maize silage digestate from two-stage anaerobic digestion by hydrothermal carbonization. <i>Energy Conversion and Management</i> , 2020, 222, 113218.	4.4	39
22	Effects of ensiling treatments on lactic acid production and supplementary methane formation of maize and amaranth – An advanced green biorefining approach. <i>Bioresource Technology</i> , 2015, 178, 217-225.	4.8	38
23	Biomethane Potential Test: Influence of Inoculum and the Digestion System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2589.	1.3	38
24	Biogas Potential of Coffee Processing Waste in Ethiopia. <i>Sustainability</i> , 2018, 10, 2678.	1.6	37
25	Effect of various leachate recirculation strategies on batch anaerobic digestion of solid substrates. <i>International Journal of Environment and Waste Management</i> , 2012, 9, 69.	0.2	35
26	Anaerobic digestion beyond biogas. <i>Bioresource Technology</i> , 2021, 337, 125378.	4.8	33
27	Effect of residence time during hydrothermal carbonization of biogas digestate on the combustion characteristics of hydrochar and the biogas production of process water. <i>Bioresource Technology</i> , 2021, 333, 125110.	4.8	30
28	Impact of genotype, harvest time and chemical composition on the methane yield of winter rye for biogas production. <i>Biomass and Bioenergy</i> , 2011, 35, 4316-4323.	2.9	29
29	Effect of substrate pretreatment on particle size distribution in a full-scale research biogas plant. <i>Bioresource Technology</i> , 2014, 172, 396-402.	4.8	28
30	Energy balance of a two-phase anaerobic digestion process for energy crops. <i>Engineering in Life Sciences</i> , 2010, 10, 515-519.	2.0	27
31	Two-stage anaerobic digestion: State of technology and perspective roles in future energy systems. <i>Bioresource Technology</i> , 2022, 360, 127633.	4.8	27
32	Food waste co-digestion in Germany and the United States: From lab to full-scale systems. <i>Resources, Conservation and Recycling</i> , 2019, 148, 104-113.	5.3	25
33	Biogas Upgrading: Current and Emerging Technologies. , 2019, , 817-843.		24
34	Anaerobic digestion of high-yielding tropical energy crops for biomethane production: Effects of crop types, locations and plant parts. <i>Bioresource Technology</i> , 2018, 262, 194-202.	4.8	23
35	Near-infrared spectroscopic online monitoring of process stability in biogas plants. <i>Engineering in Life Sciences</i> , 2012, 12, 295-305.	2.0	22
36	Development of an in-line process viscometer for the full-scale biogas process. <i>Bioresource Technology</i> , 2015, 178, 278-284.	4.8	21

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37	Optimizing anaerobic digestion of organic fraction of municipal solid waste (OFMSW) by using biomass ashes as additives. <i>Waste Management</i> , 2020, 109, 136-148.	3.7	20
38	Life cycle assessment of the conversion of Zea mays and x Triticosecale into biogas and bioethanol. <i>Engineering in Life Sciences</i> , 2010, 10, 577-584.	2.0	19
39	Methane yield of oat husks. <i>Biomass and Bioenergy</i> , 2011, 35, 2627-2633.	2.9	19
40	Characterization of the separately collected organic fraction of municipal solid waste (OFMSW) from rural and urban districts for a one-year period in Germany. <i>Waste Management</i> , 2021, 131, 471-482.	3.7	19
41	Microbiome dynamics and adaptation of expression signatures during methane production failure and process recovery. <i>Bioresource Technology</i> , 2018, 247, 347-356.	4.8	16
42	Introducing Temperature as Variable Parameter into Kinetic Models for Anaerobic Fermentation of Coffee Husk, Pulp and Mucilage. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 412.	1.3	16
43	A biorefinery concept using forced chicory roots for the production of biogas, hydrochar, and platform chemicals. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1453-1463.	2.9	16
44	Innovative additives for chemical desulphurisation in biogas processes: A comparative study on iron compound products. <i>Biochemical Engineering Journal</i> , 2017, 121, 181-187.	1.8	14
45	Effects of Increasing Nitrogen Content on Process Stability and Reactor Performance in Anaerobic Digestion. <i>Energies</i> , 2020, 13, 1139.	1.6	14
46	Two-stage anaerobic digestion of sugar beet silage: The effect of the pH-value on process parameters and process efficiency. <i>Bioresource Technology</i> , 2017, 245, 876-883.	4.8	13
47	Testing different ensiling parameters to increase butyric acid concentration for maize silage, followed by silage separation and methane yield potential of separated solids residues. <i>Bioresource Technology Reports</i> , 2019, 7, 100193.	1.5	12
48	Demand-oriented biogas production and biogas storage in digestate by flexibly feeding a full-scale biogas plant. <i>Bioresource Technology</i> , 2021, 332, 125099.	4.8	12
49	Simultaneous determination of a spectrum of trichothecene toxins out of residuals of biogas production. <i>Journal of Chromatography A</i> , 2008, 1193, 92-96.	1.8	11
50	Advanced green biorefining: effects of ensiling treatments on lactic acid production, microbial activity and supplementary methane formation of grass and rye. <i>Biomass Conversion and Biorefinery</i> , 2016, 6, 197-208.	2.9	10
51	Biological methanation of injected hydrogen in a two-stage anaerobic digestion process. <i>Bioresource Technology</i> , 2021, 333, 125126.	4.8	10
52	Enhancing the analytical capacity for biogas development in Brazil: assessment of an original measurement system for low biogas flow rates out of agricultural biomass residues. <i>Engenharia Agricola</i> , 2016, 36, 792-798.	0.2	10
53	Influence of Anaerobic Digestion Processes on the Germination of Weed Seeds. <i>Gesunde Pflanzen</i> , 2020, 72, 181-194.	1.7	9
54	Multiposition Sensor Technology and Lance-Based Sampling for Improved Monitoring of the Liquid Phase in Biogas Processes. <i>Energy & Fuels</i> , 2015, 29, 4038-4045.	2.5	8

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55	Influence on lactic acid content in maize silage variations by manganese supplementation. <i>Industrial Crops and Products</i> , 2016, 79, 146-151.	2.5	8
56	Increasing the loading rate of continuous stirred tank reactor for coffee husk and pulp: Effect of trace elements supplement. <i>Engineering in Life Sciences</i> , 2018, 18, 551-561.	2.0	8
57	Adapted Hedley fractionation for the analysis of inorganic phosphate in biogas digestate. <i>Bioresource Technology</i> , 2021, 331, 125038.	4.8	8
58	Advances in Biogas Research and Application. <i>Bioresource Technology</i> , 2015, 178, 177.	4.8	7
59	Influence of Maintenance Intervals on Performance and Emissions of a 192 kWel Biogas Gas Otto CHP Unit and Results of Lubricating Oil Quality Tests – Outcome from a Continuous Two-Year Measuring Campaign. <i>Energies</i> , 2013, 6, 2819-2839.	1.6	6
60	Assessment of Areal Methane Yields from Energy Crops in Ukraine, Best Practices. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4431.	1.3	6
61	Optimal conditions for high solid co-digestion of organic fraction of municipal solid wastes in a leach-bed reactor. <i>Bioresource Technology</i> , 2021, 331, 125023.	4.8	6
62	Operating Performance of Full-Scale Agricultural Biogas Plants in Germany and China: Results of a Year-Round Monitoring Program. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1271.	1.3	5
63	Combined Butyric Acid and Methane Production from Grass Silage in a Novel Green Biorefinery Concept. <i>Waste and Biomass Valorization</i> , 2022, 13, 1873-1884.	1.8	5
64	Improving the energetic utilization of household food waste: Impact of temperature and atmosphere during storage. <i>Waste Management</i> , 2022, 144, 366-375.	3.7	5
65	Investigation of the mixing behaviour of a full-scale biogas plant using biodegradable tracers. <i>Biomass and Bioenergy</i> , 2020, 139, 105613.	2.9	4
66	Influence of Digester Temperature on Methane Yield of Organic Fraction of Municipal Solid Waste (OFMSW). <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2907.	1.3	4
67	Upgrading the Organic Fraction of Municipal Solid Waste by Low Temperature Hydrothermal Processes. <i>Energies</i> , 2021, 14, 3041.	1.6	4
68	Degradation of hop latent viroid during anaerobic digestion of infected hop harvest residues. <i>European Journal of Plant Pathology</i> , 2021, 161, 579-591.	0.8	4
69	Response of phosphorus speciation to organic loading rates and temperatures during anaerobic co-digestion of animal manures and wheat straw. <i>Science of the Total Environment</i> , 2022, 838, 155921.	3.9	4
70	Datasets on chemical composition and anaerobic digestion of organic fraction of municipal solid waste (OFMSW), digested sewage sludge (inoculum) and ashes from incineration or gasification. <i>Data in Brief</i> , 2020, 31, 105797.	0.5	3
71	Comparison of Biological Efficiency Assessment Methods and Their Application to Full-Scale Biogas Plants. <i>Energies</i> , 2021, 14, 2381.	1.6	3
72	Dataset for a full-year time series characterization of separately collected organic fraction of municipal solid waste from rural and urban regions in Germany. <i>Data in Brief</i> , 2021, 39, 107543.	0.5	3

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73	Methane production of banana plant: Yield, kinetics and prediction models influenced by morphological parts, cultivars and ripening stages. Bioresource Technology, 2022, , 127640.	4.8	3
74	Editorial: Biogas science â€“ State of the art and future perspectives. Engineering in Life Sciences, 2010, 10, 491-492.	2.0	2
75	Editorial: Progress in biogas â€“ State of the art and future perspectives: Engineering in Life Sciences 3'12. Engineering in Life Sciences, 2012, 12, 239-240.	2.0	2
76	pH-depended flushing in an automatized batch leach bed reactor system for volatile fatty acid production. Bioresource Technology, 2022, 360, 127611.	4.8	1