

Alexander Bauer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/935237/publications.pdf>

Version: 2024-02-01

27
papers

966
citations

687220

13
h-index

580701

25
g-index

28
all docs

28
docs citations

28
times ranked

1229
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of methane potentials of steam-exploded wheat straw and estimation of energy yields of combined ethanol and methane production. <i>Journal of Biotechnology</i> , 2009, 142, 50-55.	1.9	141
2	Detailed monitoring of two biogas plants and mechanical solid-liquid separation of fermentation residues. <i>Journal of Biotechnology</i> , 2009, 142, 56-63.	1.9	103
3	Steam explosion pretreatment for enhancing biogas production of late harvested hay. <i>Bioresource Technology</i> , 2014, 166, 403-410.	4.8	98
4	Analysis of methane yields from energy crops and agricultural by-products and estimation of energy potential from sustainable crop rotation systems in EU-27. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 153-161.	2.1	95
5	Steam explosion pretreatment of wheat straw to improve methane yields: Investigation of the degradation kinetics of structural compounds during anaerobic digestion. <i>Bioresource Technology</i> , 2015, 179, 299-305.	4.8	88
6	Biogas production from reed biomass: Effect of pretreatment using different steam explosion conditions. <i>Biomass and Bioenergy</i> , 2016, 95, 84-91.	2.9	82
7	Corn stover for biogas production: Effect of steam explosion pretreatment on the gas yields and on the biodegradation kinetics of the primary structural compounds. <i>Bioresource Technology</i> , 2017, 244, 949-956.	4.8	79
8	Biogas Production from Steam-Exploded <i>Miscanthus</i> and Utilization of Biogas Energy and CO ₂ in Greenhouses. <i>Bioenergy Research</i> , 2013, 6, 620-630.	2.2	60
9	Utilization of by-products from ethanol production as substrate for biogas production. <i>Bioresource Technology</i> , 2011, 102, 6621-6624.	4.8	44
10	The effect of a combined biological and thermo-mechanical pretreatment of wheat straw on energy yields in coupled ethanol and methane generation. <i>Bioresource Technology</i> , 2015, 194, 7-13.	4.8	28
11	Effects of the Antibiotics Chlortetracycline and Enrofloxacin on the Anaerobic Digestion in Continuous Experiments. <i>Bioenergy Research</i> , 2014, 7, 1244-1252.	2.2	24
12	Potential of different <i>Sorghum bicolor</i> (L. moench) varieties for combined ethanol and biogas production in the Pannonian climate of Austria. <i>Energy</i> , 2013, 55, 107-113.	4.5	17
13	Microfibrillated cellulose and cellulose nanopaper from <i>Miscanthus</i> biogas production residue. <i>Cellulose</i> , 2014, 21, 1601-1610.	2.4	16
14	Multicriteria Decision Model and Thermal Pretreatment of Hotel Food Waste for Robust Output to Biogas: Case Study from City of Jaipur, India. <i>BioMed Research International</i> , 2018, 2018, 1-13.	0.9	15
15	Environmental Effects of Steam Explosion Pretreatment on Biogas from Maize—Case Study of a 500-kW Austrian Biogas Facility. <i>Bioenergy Research</i> , 2016, 9, 198-207.	2.2	13
16	Excellence in Excrements: Upcycling of Herbivore Manure into Nanocellulose and Biogas. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15506-15513.	3.2	12
17	Environmental life cycle assessment of nano-cellulose and biogas production from manure. <i>Journal of Environmental Management</i> , 2022, 314, 115093.	3.8	12
18	Utilization of Food and Agricultural Residues for a Flexible Biogas Production: Process Stability and Effects on Needed Biogas Storage Capacities. <i>Energies</i> , 2019, 12, 2678.	1.6	11

#	ARTICLE	IF	CITATIONS
19	Influence of tillage depth of a cultivator on the incorporation of crop residues of winter barley in a chernozem soil. <i>Bodenkultur</i> , 2019, 70, 69-79.	0.1	6
20	Environmental hot spot analysis in agricultural life-cycle assessments – three case studies. <i>Journal of Central European Agriculture</i> , 2016, 17, 477-492.	0.3	5
21	Life Cycle Assessment of Biogas Production from Unused Grassland Biomass Pretreated by Steam Explosion Using a System Expansion Method. <i>Sustainability</i> , 2020, 12, 9945.	1.6	5
22	Spectral-Based Classification of Plant Species Groups and Functional Plant Parts in Managed Permanent Grassland. <i>Remote Sensing</i> , 2022, 14, 1154.	1.8	5
23	Food wastes from hospitality sector as versatile bioresources for bio-products: an overview. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 955-964.	1.6	4
24	Potential Analysis of Agro-Municipal Residues as a Source of Renewable Energy. <i>Bioenergy Research</i> , 2015, 8, 1449-1456.	2.2	2
25	2nd International Conference Biogas Science 2014, Vienna, Austria. <i>Energy & Fuels</i> , 2015, 29, 4003-4004.	2.5	0
26	Hyperspectral-Based Classification of Managed Permanent Grassland with Multilayer Perceptrons: Influence of Spectral Band Count and Spectral Regions on Model Performance. <i>Agriculture (Switzerland)</i> , 2022, 12, 579.	1.4	0
27	Comparison of a system expansion and allocation approach for the handling of multi-output processes in life cycle assessment – a case study for nano-cellulose and biogas production from elephant manure. <i>Bodenkultur</i> , 2022, 72, 113-121.	0.1	0