

ÃaÄrÄ± Akyol

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7136936/publications.pdf>

Version: 2024-02-01

44
papers

1,239
citations

279701

23
h-index

395590

33
g-index

44
all docs

44
docs citations

44
times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastics in real wastewater treatment schemes: Comparative assessment and relevant inhibition effects on anaerobic processes. <i>Chemosphere</i> , 2021, 262, 128415.	4.2	69
2	Crop-based composting of lignocellulosic digestates: Focus on bacterial and fungal diversity. <i>Bioresource Technology</i> , 2019, 288, 121549.	4.8	67
3	Combined sewer overflows: A critical review on best practice and innovative solutions to mitigate impacts on environment and human health. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1585-1618.	6.6	62
4	A comprehensive microbial insight into single-stage and two-stage anaerobic digestion of oxytetracycline-medicated cattle manure. <i>Chemical Engineering Journal</i> , 2016, 303, 675-684.	6.6	56
5	Long-term operation of a pilot-scale anaerobic membrane bioreactor (AnMBR) treating high salinity low loaded municipal wastewater in real environment. <i>Separation and Purification Technology</i> , 2020, 236, 116279.	3.9	56
6	Bioaugmentation with <i>Clostridium thermocellum</i> to enhance the anaerobic biodegradation of lignocellulosic agricultural residues. <i>Bioresource Technology</i> , 2018, 249, 620-625.	4.8	54
7	Biological pretreatment with <i>Trametes versicolor</i> to enhance methane production from lignocellulosic biomass: A metagenomic approach. <i>Industrial Crops and Products</i> , 2019, 140, 111659.	2.5	54
8	Fungal bioaugmentation of anaerobic digesters fed with lignocellulosic biomass: What to expect from anaerobic fungus <i>Orpinomyces</i> sp.. <i>Bioresource Technology</i> , 2019, 277, 1-10.	4.8	52
9	Decentralized Community Composting: Past, Present and Future Aspects of Italy. <i>Sustainability</i> , 2020, 12, 3319.	1.6	50
10	Pilot scale cellulose recovery from sewage sludge and reuse in building and construction material. <i>Waste Management</i> , 2019, 100, 208-218.	3.7	45
11	Brine treatment technologies towards minimum/zero liquid discharge and resource recovery: State of the art and techno-economic assessment. <i>Journal of Environmental Management</i> , 2021, 300, 113681.	3.8	44
12	Rumen bacteria at work: bioaugmentation strategies to enhance biogas production from cow manure. <i>Journal of Applied Microbiology</i> , 2018, 124, 491-502.	1.4	43
13	Operating conditions influence microbial community structures, elimination of the antibiotic resistance genes and metabolites during anaerobic digestion of cow manure in the presence of oxytetracycline. <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 349-356.	2.9	39
14	Microbial monitoring of ammonia removal in a UASB reactor treating pre-digested chicken manure with anaerobic granular inoculum. <i>Bioresource Technology</i> , 2017, 241, 332-339.	4.8	37
15	Comparative life cycle environmental and economic assessment of anaerobic membrane bioreactor and disinfection for reclaimed water reuse in agricultural irrigation: A case study in Italy. <i>Journal of Cleaner Production</i> , 2021, 293, 126201.	4.6	35
16	Anaerobic co-digestion of cow manure and barley: Effect of cow manure to barley ratio on methane production and digestion stability. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 589-595.	1.3	34
17	Urban water-energy-food-climate nexus in integrated wastewater and reuse systems: Cyber-physical framework and innovations. <i>Applied Energy</i> , 2021, 298, 117268.	5.1	34
18	Policy and legislative barriers to close water-related loops in innovative small water and wastewater systems in Europe: A critical analysis. <i>Journal of Cleaner Production</i> , 2021, 288, 125604.	4.6	33

#	ARTICLE	IF	CITATIONS
19	Application of next-generation sequencing methods for microbial monitoring of anaerobic digestion of lignocellulosic biomass. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6849-6864.	1.7	32
20	Validated innovative approaches for energy-efficient resource recovery and re-use from municipal wastewater: From anaerobic treatment systems to a biorefinery concept. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 869-902.	6.6	32
21	Selective removal of contaminants of emerging concern (CECs) from urban water cycle via Molecularly Imprinted Polymers (MIPs): Potential of upscaling and enabling reclaimed water reuse. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105051.	3.3	31
22	Degradation of oxytetracycline and its impacts on biogas-producing microbial community structure. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1051-1060.	1.7	26
23	The fate of oxytetracycline in two-phase and single-phase anaerobic cattle manure digesters and its effects on microbial communities. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 806-814.	1.6	26
24	Changes in microbial community structures due to varying operational conditions in the anaerobic digestion of oxytetracycline-medicated cow manure. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6469-6479.	1.7	23
25	Recovery of methane from tannery sludge: the effect of inoculum to substrate ratio and solids content. <i>Journal of Material Cycles and Waste Management</i> , 2015, 17, 808-815.	1.6	22
26	Performance and microbial community variations in thermophilic anaerobic digesters treating OTC medicated cow manure under different operational conditions. <i>Bioresource Technology</i> , 2016, 205, 191-198.	4.8	20
27	Enhancing methane production from anaerobic co-digestion of cow manure and barley: Link between process parameters and microbial community dynamics. <i>Environmental Progress and Sustainable Energy</i> , 2020, 39, 13292.	1.3	19
28	Bacterial Succession in the Thermophilic Phase of Composting of Anaerobic Digestates. <i>Waste and Biomass Valorization</i> , 2020, 11, 841-849.	1.8	18
29	Monitoring of cyanobacterial blooms and assessing polymer-enhanced microfiltration and ultrafiltration for microcystin removal in an Italian drinking water treatment plant. <i>Environmental Pollution</i> , 2021, 286, 117535.	3.7	18
30	In search of the optimal inoculum to substrate ratio during anaerobic co-digestion of spent coffee grounds and cow manure. <i>Waste Management and Research</i> , 2020, 38, 1278-1283.	2.2	15
31	Targeted Bio-Based Volatile Fatty Acid Production from Waste Streams through Anaerobic Fermentation: Link between Process Parameters and Operating Scale. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9970-9987.	3.2	15
32	Assessing socio-economic value of innovative materials recovery solutions validated in existing wastewater treatment plants. <i>Journal of Cleaner Production</i> , 2021, 322, 129048.	4.6	12
33	Water-Energy-Food-Climate Nexus in an Integrated Peri-Urban Wastewater Treatment and Reuse System: From Theory to Practice. <i>Sustainability</i> , 2021, 13, 10952.	1.6	12
34	The Effect of Short-Term Exposure of Engineered Nanoparticles on Methane Production During Mesophilic Anaerobic Digestion of Primary Sludge. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	11
35	Composting practice for sustainable waste management: a case study in Istanbul. <i>Desalination and Water Treatment</i> , 2016, 57, 14473-14477.	1.0	10
36	Catchment-wide validated assessment of combined sewer overflows (CSOs) in a mediterranean coastal area and possible disinfection methods to mitigate microbial contamination. <i>Environmental Research</i> , 2021, 196, 110367.	3.7	10

#	ARTICLE	IF	CITATIONS
37	Acidification of non-medicated and oxytetracycline-medicated cattle manures during anaerobic digestion. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2373-2379.	1.2	8
38	Individual and combined inhibitory effects of methanol and toluene on acetyl-CoA synthetase expression level of acetoclastic methanogen, <i>Methanosaeta concilii</i> . <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 233-238.	1.9	8
39	Linking nano-ZnO contamination to microbial community profiling in sanitary landfill simulations. <i>Environmental Science and Pollution Research</i> , 2019, 26, 13580-13591.	2.7	5
40	Cellulosic materials recovery from municipal wastewater: from treatment plants to the market. , 2022, , 125-136.		1
41	Lessons learnt from different inoculation strategies for pilot-scale start-up of partial nitrification for landfill leachate treatment. <i>Environmental Technology and Innovation</i> , 2022, 27, 102415.	3.0	1
42	New approach to encapsulation of <i>Trametes versicolor</i> in calcium alginate beads: a promising biological pretreatment method for enhanced anaerobic digestion. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	0
43	Upscaled and validated technologies for the production of bio-based materials from wastewater. , 2022, , 197-222.		0
44	Anaerobic fermentation technologies for the production of chemical building blocks and bio-based products from wastewater. , 2022, , 159-195.		0