

ÃaÄrÄ± Akyol

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,239
citations

279701

23
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395590

33
g-index

44
all docs

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docs citations

44
times ranked

1323
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Cellulosic materials recovery from municipal wastewater: from treatment plants to the market. , 2022, , 125-136. | | 1 |
| 2 | Lessons learnt from different inoculation strategies for pilot-scale start-up of partial nitrification for landfill leachate treatment. Environmental Technology and Innovation, 2022, 27, 102415. | 3.0 | 1 |
| 3 | Upscaled and validated technologies for the production of bio-based materials from wastewater. , 2022, , 197-222. | | 0 |
| 4 | Anaerobic fermentation technologies for the production of chemical building blocks and bio-based products from wastewater. , 2022, , 159-195. | | 0 |
| 5 | Combined sewer overflows: A critical review on best practice and innovative solutions to mitigate impacts on environment and human health. Critical Reviews in Environmental Science and Technology, 2021, 51, 1585-1618. | 6.6 | 62 |
| 6 | Microplastics in real wastewater treatment schemes: Comparative assessment and relevant inhibition effects on anaerobic processes. Chemosphere, 2021, 262, 128415. | 4.2 | 69 |
| 7 | Catchment-wide validated assessment of combined sewer overflows (CSOs) in a mediterranean coastal area and possible disinfection methods to mitigate microbial contamination. Environmental Research, 2021, 196, 110367. | 3.7 | 10 |
| 8 | 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. Journal of Environmental Chemical Engineering, 2021, 9, 105051. | 3.3 | 31 |
| 9 | Policy and legislative barriers to close water-related loops in innovative small water and wastewater systems in Europe: A critical analysis. Journal of Cleaner Production, 2021, 288, 125604. | 4.6 | 33 |
| 10 | 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. Journal of Cleaner Production, 2021, 293, 126201. | 4.6 | 35 |
| 11 | Targeted Bio-Based Volatile Fatty Acid Production from Waste Streams through Anaerobic Fermentation: Link between Process Parameters and Operating Scale. ACS Sustainable Chemistry and Engineering, 2021, 9, 9970-9987. | 3.2 | 15 |
| 12 | Urban water-energy-food-climate nexus in integrated wastewater and reuse systems: Cyber-physical framework and innovations. Applied Energy, 2021, 298, 117268. | 5.1 | 34 |
| 13 | Monitoring of cyanobacterial blooms and assessing polymer-enhanced microfiltration and ultrafiltration for microcystin removal in an Italian drinking water treatment plant. Environmental Pollution, 2021, 286, 117535. | 3.7 | 18 |
| 14 | Assessing socio-economic value of innovative materials recovery solutions validated in existing wastewater treatment plants. Journal of Cleaner Production, 2021, 322, 129048. | 4.6 | 12 |
| 15 | Brine treatment technologies towards minimum/zero liquid discharge and resource recovery: State of the art and techno-economic assessment. Journal of Environmental Management, 2021, 300, 113681. | 3.8 | 44 |
| 16 | Water-Energy-Food-Climate Nexus in an Integrated Peri-Urban Wastewater Treatment and Reuse System: From Theory to Practice. Sustainability, 2021, 13, 10952. | 1.6 | 12 |
| 17 | Bacterial Succession in the Thermophilic Phase of Composting of Anaerobic Digestates. Waste and Biomass Valorization, 2020, 11, 841-849. | 1.8 | 18 |
| 18 | Enhancing methane production from anaerobic co-digestion of cow manure and barley: Link between process parameters and microbial community dynamics. Environmental Progress and Sustainable Energy, 2020, 39, 13292. | 1.3 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Decentralized Community Composting: Past, Present and Future Aspects of Italy. <i>Sustainability</i> , 2020, 12, 3319. | 1.6 | 50 |
| 23 | 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 |
| 24 | 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 |
| 25 | Crop-based composting of lignocellulosic digestates: Focus on bacterial and fungal diversity. <i>Bioresource Technology</i> , 2019, 288, 121549. | 4.8 | 67 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | The fate of oxytetracycline in twoâ€phase and singleâ€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 |
| 38 | 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 |
| 39 | Composting practice for sustainable waste management: a case study in Istanbul. <i>Desalination and Water Treatment</i> , 2016, 57, 14473-14477. | 1.0 | 10 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |