

# Steven Wainaina

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9435958/publications.pdf>

Version: 2024-02-01

22  
papers

1,718  
citations

471061

17  
h-index

752256

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioengineering of anaerobic digestion for volatile fatty acids, hydrogen or methane production: A critical review. <i>Bioengineered</i> , 2019, 10, 437-458.	1.4	350
2	Resource recovery and circular economy from organic solid waste using aerobic and anaerobic digestion technologies. <i>Bioresource Technology</i> , 2020, 301, 122778.	4.8	305
3	A critical review of organic manure biorefinery models toward sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 115-131.	8.2	177
4	Microbiological insights into anaerobic digestion for biogas, hydrogen or volatile fatty acids (VFAs): a review. <i>Bioengineered</i> , 2022, 13, 6521-6557.	1.4	107
5	Anaerobic digestion of food waste to volatile fatty acids and hydrogen at high organic loading rates in immersed membrane bioreactors. <i>Renewable Energy</i> , 2020, 152, 1140-1148.	4.3	95
6	Biochemicals from food waste and recalcitrant biomass via syngas fermentation: A review. <i>Bioresource Technology</i> , 2018, 248, 113-121.	4.8	93
7	Techno-economics and life-cycle assessment of biological and thermochemical treatment of bio-waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 110837.	8.2	77
8	Food waste-derived volatile fatty acids platform using an immersed membrane bioreactor. <i>Bioresource Technology</i> , 2019, 274, 329-334.	4.8	67
9	Microbial dynamics during anaerobic digestion of sewage sludge combined with food waste at high organic loading rates in immersed membrane bioreactors. <i>Fuel</i> , 2021, 303, 121276.	3.4	57
10	Production of polyhydroxyalkanoates (PHAs) by <i>Bacillus megaterium</i> using food waste acidogenic fermentation-derived volatile fatty acids. <i>Bioengineered</i> , 2021, 12, 2480-2498.	1.4	50
11	The effect of mono- and multiple fermentation parameters on volatile fatty acids (VFAs) production from chicken manure via anaerobic digestion. <i>Bioresource Technology</i> , 2021, 330, 124992.	4.8	45
12	MBR-Assisted VFAs Production from Excess Sewage Sludge and Food Waste Slurry for Sustainable Wastewater Treatment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2921.	1.3	38
13	Membrane bioreactor-assisted volatile fatty acids production and in situ recovery from cow manure. <i>Bioresource Technology</i> , 2021, 321, 124456.	4.8	37
14	Utilization of food waste-derived volatile fatty acids for production of edible <i>Rhizopus oligosporus</i> fungal biomass. <i>Bioresource Technology</i> , 2020, 310, 123444.	4.8	34
15	Filamentous Fungus <i>Aspergillus oryzae</i> for Food: From Submerged Cultivation to Fungal Burgers and Their Sensory Evaluation—A Pilot Study. <i>Foods</i> , 2021, 10, 2774.	1.9	25
16	Fungal dynamics during anaerobic digestion of sewage sludge combined with food waste at high organic loading rates in immersed membrane bioreactors. <i>Bioresource Technology</i> , 2021, 335, 125296.	4.8	24
17	Cultivation of edible filamentous fungus <i>Aspergillus oryzae</i> on volatile fatty acids derived from anaerobic digestion of food waste and cow manure. <i>Bioresource Technology</i> , 2021, 337, 125410.	4.8	19
18	Methanogen and nitrifying genes dynamics in immersed membrane bioreactors during anaerobic co-digestion of different organic loading rates food waste. <i>Bioresource Technology</i> , 2021, 342, 125920.	4.8	8

#	ARTICLE	IF	CITATIONS
19	Effects of Heavy Metals and pH on the Conversion of Biomass to Hydrogen via Syngas Fermentation. BioResources, 2018, 13, .	0.5	3
20	Microbial Conversion of Food Waste: Volatile Fatty Acids Platform. , 2021, , 205-233.		2
21	Anaerobic digestion of cornmeal “ the effect of crude enzyme extract and coâ€digestion with cow manure. Biofuels, Bioproducts and Biorefining, 0, , .	1.9	1
22	Challenges for Microbial and Thermochemical Transformation Toward Circular Bioeconomy. , 2021, , 749-779.		0