

Cathryn O'Sullivan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,165
citations

471509

17
h-index

395702

33
g-index

37
all docs

37
docs citations

37
times ranked

1428
citing authors

#	ARTICLE	IF	CITATIONS
1	The anaerobic degradability of thermoplastic starch: Polyvinyl alcohol blends: Potential biodegradable food packaging materials. <i>Bioresource Technology</i> , 2009, 100, 1705-1710.	9.6	115
2	Identification, Detection, and Spatial Resolution of Clostridium Populations Responsible for Cellulose Degradation in a Methanogenic Landfill Leachate Bioreactor. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2414-2419.	3.1	113
3	Influence of co-application of nitrogen with phosphorus, potassium and sulphur on the apparent efficiency of nitrogen fertiliser use, grain yield and protein content of wheat: Review. <i>Field Crops Research</i> , 2018, 226, 56-65.	5.1	103
4	Strategies to improve the productivity, product diversity and profitability of urban agriculture. <i>Agricultural Systems</i> , 2019, 174, 133-144.	6.1	103
5	Anaerobic digestion of harvested aquatic weeds: water hyacinth (<i>Eichhornia crassipes</i>), cabomba (<i>Cabomba Caroliniana</i>) and salvinia (<i>Salvinia molesta</i>). <i>Ecological Engineering</i> , 2010, 36, 1459-1468.	3.6	98
6	Structure of a cellulose degrading bacterial community during anaerobic digestion. <i>Biotechnology and Bioengineering</i> , 2005, 92, 871-878.	3.3	75
7	Identification of several wheat landraces with biological nitrification inhibition capacity. <i>Plant and Soil</i> , 2016, 404, 61-74.	3.7	65
8	Yield and nitrogen use efficiency of wheat increased with root length and biomass due to nitrogen, phosphorus, and potassium interactions. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 364-373.	1.9	57
9	Selenium speciation in wheat grain varies in the presence of nitrogen and sulphur fertilisers. <i>Environmental Geochemistry and Health</i> , 2017, 39, 955-966.	3.4	43
10	Tackling Control of a Cosmopolitan Phytopathogen: Sclerotinia. <i>Frontiers in Plant Science</i> , 2021, 12, 707509.	3.6	39
11	Factors affecting ammonia-oxidising microorganisms and potential nitrification rates in southern Australian agricultural soils. <i>Soil Research</i> , 2013, 51, 240.	1.1	34
12	Vertical farms bear fruit. <i>Nature Biotechnology</i> , 2020, 38, 160-162.	17.5	34
13	Dimethylarsenate (DMA) exposure influences germination rates, arsenic uptake and arsenic species formation in wheat. <i>Chemosphere</i> , 2017, 181, 44-54.	8.2	31
14	Comparison of cellulose solubilisation rates in rumen and landfill leachate inoculated reactors. <i>Bioresource Technology</i> , 2006, 97, 2356-2363.	9.6	26
15	The effect of biomass density on cellulose solubilisation rates. <i>Bioresource Technology</i> , 2008, 99, 4723-4731.	9.6	23
16	Predicting the efficacy of the nitrification inhibitor dicyandiamide in pastoral soils. <i>Plant and Soil</i> , 2014, 381, 35-43.	3.7	22
17	Application of flowcell technology for monitoring biofilm development and cellulose degradation in leachate and rumen systems. <i>Bioresource Technology</i> , 2009, 100, 492-496.	9.6	19
18	A colourimetric microplate assay for simple, high throughput assessment of synthetic and biological nitrification inhibitors. <i>Plant and Soil</i> , 2017, 413, 275-287.	3.7	19

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19	Biological nitrification inhibition by weeds: wild radish, brome grass, wild oats and annual ryegrass decrease nitrification rates in their rhizospheres. <i>Crop and Pasture Science</i> , 2017, 68, 798.	1.5	18
20	A survey of the relative abundance of specific groups of cellulose degrading bacteria in anaerobic environments using fluorescence in situ hybridization. <i>Journal of Applied Microbiology</i> , 2007, 103, 1332-1343.	3.1	14
21	Experimental and theoretical investigation of diffusion processes in a membrane anaerobic reactor for bio-hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5301-5311.	7.1	14
22	The effect of media changes on the rate of cellulose solubilisation by rumen and digester derived microbial communities. <i>Waste Management</i> , 2007, 27, 1808-1814.	7.4	13
23	The nitrification inhibitor 3,4-dimethylpyrazole phosphate strongly inhibits nitrification in coarse-grained soils containing a low abundance of nitrifying microbiota. <i>Soil Research</i> , 2017, 55, 28.	1.1	13
24	Fate of pathogen indicators in a domestic blend of food waste and wastewater through a two-stage anaerobic digestion system. <i>Water Science and Technology</i> , 2013, 67, 366-373.	2.5	11
25	Crop and microbial responses to the nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP) in Mediterranean wheat-cropping systems. <i>Soil Research</i> , 2017, 55, 553.	1.1	10
26	Developing Actinobacterial Endophytes as Biocontrol Products for <i>Fusarium pseudograminearum</i> in Wheat. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 691770.	4.1	10
27	Sources of Hydrogen Sulfide in Groundwater on Reclaimed Land. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 471-477.	1.4	7
28	Archaeal ammonia oxidisers are abundant in acidic, coarse-textured Australian soils. <i>Soil Research</i> , 2011, 49, 715.	1.1	7
29	Changes in glucose fermentation pathways by an enriched bacterial culture in response to regulated dissolved H ₂ concentrations. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1177-1186.	3.3	7
30	A composite guanyl thiourea (GTU), dicyandiamide (DCD) inhibitor improves the efficacy of nitrification inhibition in soil. <i>Chemosphere</i> , 2016, 163, 1-5.	8.2	6
31	Critical analysis of hydrogen production from mixed culture fermentation under thermophilic condition (60°C). <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5165-5176.	3.6	4
32	A <i>Sclerotinia</i> disease assay for screening flowering canola plants in controlled environments. <i>Australasian Plant Pathology</i> , 2017, 46, 333-338.	1.0	4
33	A Plant Stress-Responsive Bioreporter Coupled With Transcriptomic Analysis Allows Rapid Screening for Biocontrols of Necrotrophic Fungal Pathogens. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 708530.	3.5	4
34	Draft Genome Sequence of <i>Rhodococcus</i> sp. Strain 66b. <i>Genome Announcements</i> , 2017, 5, .	0.8	2
35	Inorganic Arsenic Concentrations in Wheat Chaff Exceed Those in Wheat Grain. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	1
36	Draft Genome Sequences of <i>Streptomyces</i> sp. Strains MH60 and 111WW2. <i>Genome Announcements</i> , 2018, 6, .	0.8	1

#	ARTICLE	IF	CITATIONS
37	Increasing the Diversity of Crops That Can Be Grown in Urban and Vertical Farms. Proceedings (mdp), 2020, 36, .	0.2	0