

Brendan T Higgins

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,882
citations

430754

18
h-index

477173

29
g-index

32
all docs

32
docs citations

32
times ranked

4046
citing authors

#	ARTICLE	IF	CITATIONS
1	MS-DIAL: data-independent MS/MS deconvolution for comprehensive metabolome analysis. <i>Nature Methods</i> , 2015, 12, 523-526.	9.0	1,955
2	Interactions of microalgae-bacteria consortia for nutrient removal from wastewater: A review. <i>Chemosphere</i> , 2021, 272, 129878.	4.2	171
3	Algal-bacterial synergy in treatment of winery wastewater. <i>Npj Clean Water</i> , 2018, 1, .	3.1	75
4	Effects of <i>Escherichia coli</i> on Mixotrophic Growth of <i>Chlorella minutissima</i> and Production of Biofuel Precursors. <i>PLoS ONE</i> , 2014, 9, e96807.	1.1	58
5	Enhancement of biogas production from wastewater sludge via anaerobic digestion assisted with biochar amendment. <i>Bioresource Technology</i> , 2020, 309, 123368.	4.8	56
6	Cofactor symbiosis for enhanced algal growth, biofuel production, and wastewater treatment. <i>Algal Research</i> , 2016, 17, 308-315.	2.4	53
7	The role of organic matter amendment level on soil heating, organic acid accumulation, and development of bacterial communities in solarized soil. <i>Applied Soil Ecology</i> , 2016, 106, 37-46.	2.1	48
8	Aerobic bacterial pretreatment to overcome algal growth inhibition on high-strength anaerobic digestates. <i>Water Research</i> , 2019, 162, 420-426.	5.3	46
9	Algae support populations of heterotrophic, nitrifying, and phosphate-accumulating bacteria in the treatment of poultry litter anaerobic digestate. <i>Chemical Engineering Journal</i> , 2020, 398, 125550.	6.6	44
10	Indole-3-acetic acid from <i>Azospirillum brasilense</i> promotes growth in green algae at the expense of energy storage products. <i>Algal Research</i> , 2020, 47, 101845.	2.4	38
11	Leaching and anaerobic digestion of poultry litter for biogas production and nutrient transformation. <i>Waste Management</i> , 2019, 84, 413-422.	3.7	35
12	Coculturing <i>Chlorella minutissima</i> with <i>Escherichia coli</i> can increase neutral lipid production and improve biodiesel quality. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1801-1809.	1.7	33
13	Microplate assay for quantitation of neutral lipids in extracts from microalgae. <i>Analytical Biochemistry</i> , 2014, 465, 81-89.	1.1	32
14	Algal photosynthetic aeration increases the capacity of bacteria to degrade organics in wastewater. <i>Biotechnology and Bioengineering</i> , 2020, 117, 62-72.	1.7	31
15	Life Cycle Environmental and Cost Impacts of Using an Algal Turf Scrubber to Treat Dairy Wastewater. <i>Journal of Industrial Ecology</i> , 2012, 16, 436-447.	2.8	27
16	Effect of ammonia removal and biochar detoxification on anaerobic digestion of aqueous phase from municipal sludge hydrothermal liquefaction. <i>Bioresource Technology</i> , 2021, 326, 124730.	4.8	23
17	Comparison of algae growth and symbiotic mechanisms in the presence of plant growth promoting bacteria and non-plant growth promoting bacteria. <i>Algal Research</i> , 2021, 53, 102156.	2.4	22
18	Informatics for improved algal taxonomic classification and research: A case study of UTEX 2341. <i>Algal Research</i> , 2015, 12, 545-549.	2.4	20

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19	Azospirillum brasilense reduces oxidative stress in the green microalgae Chlorella sorokiniana under different stressors. <i>Journal of Biotechnology</i> , 2021, 325, 179-185.	1.9	18
20	Anaerobic microbial communities can influence algal growth and nutrient removal from anaerobic digestate. <i>Bioresource Technology</i> , 2020, 297, 122445.	4.8	16
21	Ionic Liquids Impact the Bioenergy Feedstock-Degrading Microbiome and Transcription of Enzymes Relevant to Polysaccharide Hydrolysis. <i>MSystems</i> , 2016, 1, .	1.7	15
22	Impact of thiamine metabolites and spent medium from Chlorella sorokiniana on metabolism in the green algae Auxenochlorella prototheciodes. <i>Algal Research</i> , 2018, 33, 197-208.	2.4	15
23	Factors impacting the effectiveness of biological pretreatment for the alleviation of algal growth inhibition on anaerobic digestate. <i>Algal Research</i> , 2021, 53, 102129.	2.4	14
24	Production of Daphnia zooplankton on wastewater-grown algae for sustainable conversion of waste nutrients to fish feed. <i>Journal of Cleaner Production</i> , 2021, 310, 127501.	4.6	10
25	Cultivation of Green Microalgae in Bubble Column Photobioreactors and an Assay for Neutral Lipids. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	9
26	Acclimation of an algal consortium to sequester nutrients from anaerobic digestate. <i>Bioresource Technology</i> , 2021, 342, 125921.	4.8	9
27	Moisture content and aeration control mineral nutrient solubility in poultry litter. <i>Journal of Environmental Management</i> , 2021, 300, 113787.	3.8	3
28	Improved microalgae biomass production and wastewater treatment: Pre-treating municipal anaerobic digestate for algae cultivation. , 2018, , .		2
29	Investigation of covers and chemical treatment for the suppression of cyanobacteria in water treatment systems. <i>Water and Environment Journal</i> , 2021, 35, 463-472.	1.0	2
30	Photoreduction of CCl ₃ F in aqueous solutions containing sulfonated poly(ether etherketone) and formate buffers. <i>Research on Chemical Intermediates</i> , 2019, 45, 4015-4028.	1.3	1
31	Biomass production and Nitrification in an algal-bacterial wastewater treatment system. , 2020, , .		1
32	Use of photocatalytic nanomaterials for volatile fatty acid removal from anaerobic digestate leads to improved algal growth. , 2019, , .		0