

Catherine Anne Biggs

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,924
citations

304602

22
h-index

265120

42
g-index

45
all docs

45
docs citations

45
times ranked

3277
citing authors

#	ARTICLE	IF	CITATIONS
1	Looking through the FOG: microbiome characterization and lipolytic bacteria isolation from a fatberg site. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	0.7	1
2	Deciphering the unique cellulose degradation mechanism of the ruminal bacterium <i>Fibrobacter succinogenes</i> S85. <i>Scientific Reports</i> , 2019, 9, 16542.	1.6	22
3	Application of enhanced assimilable organic carbon method across operational drinking water systems. <i>PLoS ONE</i> , 2019, 14, e0225477.	1.1	11
4	Hydraulic conditioning to manage potable water discolouration. <i>Water Management</i> , 2019, 172, 3-13.	0.4	6
5	Understanding the costs of investigating coliform and <i>E.Âcoli</i> detections during routine drinking water quality monitoring. <i>Urban Water Journal</i> , 2018, 15, 101-108.	1.0	6
6	Magnetic-Silk Coreâ€Shell Nanoparticles as Potential Carriers for Targeted Delivery of Curcumin into Human Breast Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1027-1038.	2.6	75
7	Simbiotics: A Multiscale Integrative Platform for 3D Modeling of Bacterial Populations. <i>ACS Synthetic Biology</i> , 2017, 6, 1194-1210.	1.9	33
8	The importance of sewer biofilms. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 487-494.	2.8	18
9	Enumeration of sulphate-reducing bacteria for assessing potential for hydrogen sulphide production in urban drainage systems. <i>Water Science and Technology</i> , 2016, 73, 3087-3094.	1.2	11
10	Physicochemical analysis of initial adhesion and biofilm formation of <i>Methanosarcina barkeri</i> on polymer support material. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 518-525.	2.5	58
11	Spatial and temporal variability of bacterial communities within a combined sewer system. <i>MicrobiologyOpen</i> , 2016, 5, 616-625.	1.2	4
12	Influence of Substrates on the Surface Characteristics and Membrane Proteome of <i>Fibrobacter succinogenes</i> S85. <i>PLoS ONE</i> , 2015, 10, e0141197.	1.1	13
13	Detecting, monitoring and controlling biofilm formation. <i>Membrane Technology</i> , 2014, 2014, 9-10.	0.5	1
14	Biodesalination: A Case Study for Applications of Photosynthetic Bacteria in Water Treatment Â. <i>Plant Physiology</i> , 2014, 164, 1661-1676.	2.3	33
15	â€™Biodesalinationâ€™: a synthetic biology approach for the use of photosynthetic bacteria in water treatment. <i>New Biotechnology</i> , 2014, 31, S140-S141.	2.4	0
16	Methodological approaches for studying the microbial ecology of drinking water distribution systems. <i>Water Research</i> , 2014, 65, 134-156.	5.3	215
17	Harvesting and dewatering yeast by microflotation. <i>Biochemical Engineering Journal</i> , 2014, 82, 174-182.	1.8	26
18	The quantitative proteomic response of <i>Synechocystis</i> sp. PCC6803 to phosphate acclimation. <i>Aquatic Biosystems</i> , 2013, 9, 5.	1.8	22

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19	Comparative study of in vitro expansion of bone marrow-derived mesenchymal stem cells. <i>Biotechnology Letters</i> , 2013, 35, 463-469.	1.1	2
20	Bacteriological water quality compliance and root cause analysis: an industry case study. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 1034-1045.	1.0	4
21	An insight into iTRAQ: where do we stand now?. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1011-1027.	1.9	293
22	Proteomic analysis of the impact of static culturing on the expansion of rat bone marrow mesenchymal stem cells. <i>Biotechnology Letters</i> , 2012, 34, 1589-1596.	1.1	4
23	Data mining T-RFLP profiles from urban water system sampling using self-organizing maps. , 2012, , .		1
24	Influence of fermentation conditions on the surface properties and adhesion of <i>Lactobacillus rhamnosus</i> GG. <i>Microbial Cell Factories</i> , 2012, 11, 116.	1.9	36
25	Comparative quantitative proteomics of <i>prochlorococcus</i> ecotypes to a decrease in environmental phosphate concentrations. <i>Aquatic Biosystems</i> , 2012, 8, 7.	1.8	12
26	Using a multi-faceted approach to determine the changes in bacterial cell surface properties influenced by a biofilm lifestyle. <i>Biofouling</i> , 2012, 28, 1-14.	0.8	24
27	Macromolecular Fingerprinting of <i>Sulfolobus</i> Species in Biofilm: A Transcriptomic and Proteomic Approach Combined with Spectroscopic Analysis. <i>Journal of Proteome Research</i> , 2011, 10, 4105-4119.	1.8	41
28	Methods in Quantitative Proteomics: Setting iTRAQ on the Right Track. <i>Current Proteomics</i> , 2011, 8, 17-30.	0.1	42
29	Mechanisms of <i>Bacillus cereus</i> biofilm formation: an investigation of the physicochemical characteristics of cell surfaces and extracellular proteins. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1161-1175.	1.7	98
30	“Biofilmology” a multidisciplinary review of the study of microbial biofilms. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1869-1881.	1.7	96
31	Quantitative protein expression and cell surface characteristics of <i>Escherichia coli</i> MG1655 biofilms. <i>Proteomics</i> , 2011, 11, 339-351.	1.3	20
32	Effect of temperature on the substrate utilization profiles of microbial communities in different sewer sediments. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 133-144.	1.2	22
33	A new coupon design for simultaneous analysis of in situ microbial biofilm formation and community structure in drinking water distribution systems. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 749-756.	1.7	67
34	Cellular acclimation strategies of a minimal picocyanobacterium to phosphate stress. <i>FEMS Microbiology Letters</i> , 2010, 306, 127-134.	0.7	11
35	A systems biology approach to investigate the response of <i>Synechocystis</i> sp. PCC6803 to a high salt environment. <i>Saline Systems</i> , 2009, 5, 8.	2.0	19
36	Comparative Proteomics Study of Salt Tolerance between a Nonsequenced Extremely Halotolerant Cyanobacterium and Its Mildly Halotolerant Relative Using <i>in vivo</i> Metabolic Labeling and <i>in vitro</i> Isobaric Labeling. <i>Journal of Proteome Research</i> , 2009, 8, 818-828.	1.8	51

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37	Investigating the effect of patulin, penicillic acid and EDTA on biofilm formation of isolates from dental unit water lines. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 349-358.	1.7	20
38	A cross-species quantitative proteomic study of salt adaptation in a halotolerant environmental isolate using ¹⁵ N metabolic labelling. <i>Proteomics</i> , 2008, 8, 2266-2284.	1.3	35
39	Characterization of the Extracellular Polymeric Substances Produced by <i>Escherichia coli</i> Using Infrared Spectroscopic, Proteomic, and Aggregation Studies. <i>Biomacromolecules</i> , 2008, 9, 686-695.	2.6	188
40	Proteomics with a pinch of salt: A cyanobacterial perspective. <i>Saline Systems</i> , 2008, 4, 1.	2.0	114
41	The polymer physics and chemistry of microbial cell attachment and adhesion. <i>Faraday Discussions</i> , 2008, 139, 85.	1.6	59
42	A Quantitative Proteomic Analysis of Light Adaptation in a Globally Significant Marine Cyanobacterium <i>Prochlorococcus marinus</i> MED4. <i>Journal of Proteome Research</i> , 2007, 6, 996-1005.	1.8	37
43	Investigating the Surface Properties of <i>Escherichia coli</i> under Glucose Controlled Conditions and Its Effect on Aggregation. <i>Langmuir</i> , 2007, 23, 6691-6697.	1.6	40
44	Bacterial growth dynamics in activated sludge batch assays. <i>Water Research</i> , 1998, 32, 587-596.	5.3	32