

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	An insight into iTRAQ: where do we stand now?. Analytical and Bioanalytical Chemistry, 2012, 404, 1011-1027.	1.9	293
2	Methodological approaches for studying the microbial ecology of drinking water distribution systems. Water Research, 2014, 65, 134-156.	5.3	215
3	Characterization of the Extracellular Polymeric Substances Produced by <i>Escherichia coli</i> Using Infrared Spectroscopic, Proteomic, and Aggregation Studies. Biomacromolecules, 2008, 9, 686-695.	2.6	188
4	Proteomics with a pinch of salt: A cyanobacterial perspective. Saline Systems, 2008, 4, 1.	2.0	114
5	Mechanisms of <i>Bacillus cereus</i> biofilm formation: an investigation of the physicochemical characteristics of cell surfaces and extracellular proteins. Applied Microbiology and Biotechnology, 2011, 89, 1161-1175.	1.7	98
6	“Biofilmology” a multidisciplinary review of the study of microbial biofilms. Applied Microbiology and Biotechnology, 2011, 90, 1869-1881.	1.7	96
7	Magnetic-Silk Core“Shell Nanoparticles as Potential Carriers for Targeted Delivery of Curcumin into Human Breast Cancer Cells. ACS Biomaterials Science and Engineering, 2017, 3, 1027-1038.	2.6	75
8	A new coupon design for simultaneous analysis of in situ microbial biofilm formation and community structure in drinking water distribution systems. Applied Microbiology and Biotechnology, 2010, 87, 749-756.	1.7	67
9	The polymer physics and chemistry of microbial cell attachment and adhesion. Faraday Discussions, 2008, 139, 85.	1.6	59
10	Physicochemical analysis of initial adhesion and biofilm formation of <i>Methanosarcina barkeri</i> on polymer support material. Colloids and Surfaces B: Biointerfaces, 2016, 143, 518-525.	2.5	58
11	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. Journal of Proteome Research, 2009, 8, 818-828.	1.8	51
12	Methods in Quantitative Proteomics: Setting iTRAQ on the Right Track. Current Proteomics, 2011, 8, 17-30.	0.1	42
13	Macromolecular Fingerprinting of <i>Sulfolobus</i> Species in Biofilm: A Transcriptomic and Proteomic Approach Combined with Spectroscopic Analysis. Journal of Proteome Research, 2011, 10, 4105-4119.	1.8	41
14	Investigating the Surface Properties of <i>Escherichia coli</i> under Glucose Controlled Conditions and Its Effect on Aggregation. Langmuir, 2007, 23, 6691-6697.	1.6	40
15	A Quantitative Proteomic Analysis of Light Adaptation in a Globally Significant Marine Cyanobacterium <i>Prochlorococcus marinus</i> MED4. Journal of Proteome Research, 2007, 6, 996-1005.	1.8	37
16	Influence of fermentation conditions on the surface properties and adhesion of <i>Lactobacillus rhamnosus</i> GG. Microbial Cell Factories, 2012, 11, 116.	1.9	36
17	A cross-species quantitative proteomic study of salt adaptation in a halotolerant environmental isolate using ¹⁵ N metabolic labelling. Proteomics, 2008, 8, 2266-2284.	1.3	35
18	Biodesalination: A Case Study for Applications of Photosynthetic Bacteria in Water Treatment. Plant Physiology, 2014, 164, 1661-1676.	2.3	33

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19	Simbiotics: A Multiscale Integrative Platform for 3D Modeling of Bacterial Populations. <i>ACS Synthetic Biology</i> , 2017, 6, 1194-1210.	1.9	33
20	Bacterial growth dynamics in activated sludge batch assays. <i>Water Research</i> , 1998, 32, 587-596.	5.3	32
21	Harvesting and dewatering yeast by microflotation. <i>Biochemical Engineering Journal</i> , 2014, 82, 174-182.	1.8	26
22	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
23	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
24	The quantitative proteomic response of <i>Synechocystis</i> sp. PCC6803 to phosphate acclimation. <i>Aquatic Biosystems</i> , 2013, 9, 5.	1.8	22
25	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
26	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
27	Quantitative protein expression and cell surface characteristics of <i>Escherichia coli</i> MG1655 biofilms. <i>Proteomics</i> , 2011, 11, 339-351.	1.3	20
28	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
29	The importance of sewer biofilms. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 487-494.	2.8	18
30	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
31	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
32	Cellular acclimation strategies of a minimal picocyanobacterium to phosphate stress. <i>FEMS Microbiology Letters</i> , 2010, 306, 127-134.	0.7	11
33	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
34	Application of enhanced assimilable organic carbon method across operational drinking water systems. <i>PLoS ONE</i> , 2019, 14, e0225477.	1.1	11
35	Understanding the costs of investigating coliform and <i>E. coli</i> detections during routine drinking water quality monitoring. <i>Urban Water Journal</i> , 2018, 15, 101-108.	1.0	6
36	Hydraulic conditioning to manage potable water discolouration. <i>Water Management</i> , 2019, 172, 3-13.	0.4	6

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37	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
38	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
39	Spatial and temporal variability of bacterial communities within a combined sewer system. <i>MicrobiologyOpen</i> , 2016, 5, 616-625.	1.2	4
40	Comparative study of in vitro expansion of bone marrow-derived mesenchymal stem cells. <i>Biotechnology Letters</i> , 2013, 35, 463-469.	1.1	2
41	Data mining T-RFLP profiles from urban water system sampling using self-organizing maps. , 2012, , .		1
42	Detecting, monitoring and controlling biofilm formation. <i>Membrane Technology</i> , 2014, 2014, 9-10.	0.5	1
43	Looking through the FOG: microbiome characterization and lipolytic bacteria isolation from a fatberg site. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	0.7	1
44	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