

Douglas H Bartlett

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,167
citations

257450

24
h-index

254184

43
g-index

88
all docs

88
docs citations

88
times ranked

2355
citing authors

#	ARTICLE	IF	CITATIONS
1	Monounsaturated but Not Polyunsaturated Fatty Acids Are Required for Growth of the Deep-Sea Bacterium <i>Photobacterium profundum</i> SS9 at High Pressure and Low Temperature. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1710-1720.	3.1	221
2	Structure and regulation of the omega-3 polyunsaturated fatty acid synthase genes from the deep-sea bacterium <i>Photobacterium profundum</i> strain SS9 The GenBank accession numbers for the sequences reported in this paper are AF409100 and AF467805.. <i>Microbiology (United Kingdom)</i> , 2002, 148, 1903-1913.	1.8	151
3	The Unique 16S rRNA Genes of Piezophiles Reflect both Phylogeny and Adaptation. <i>Applied and Environmental Microbiology</i> , 2007, 73, 838-845.	3.1	126
4	Identification of a regulatory protein required for pressure-responsive gene expression in the deep-sea bacterium <i>Photobacterium</i> species strain SS9. <i>Molecular Microbiology</i> , 1998, 27, 977-985.	2.5	116
5	Identification of Free-Living and Particle-Associated Microbial Communities Present in Hadal Regions of the Mariana Trench. <i>Frontiers in Microbiology</i> , 2016, 7, 665.	3.5	99
6	Going Deeper: Metagenome of a Hadopelagic Microbial Community. <i>PLoS ONE</i> , 2011, 6, e20388.	2.5	95
7	The metabolic potential of the single cell genomes obtained from the Challenger Deep, Mariana Trench within the candidate superphylum <i>Picrobacteria</i> (<i>OPB1</i>). <i>Environmental Microbiology</i> , 2017, 19, 2769-2784.	3.8	88
8	The molecular biology of barophilic bacteria. <i>Extremophiles</i> , 1997, 1, 111-116.	2.3	86
9	MICROBIOLOGY: Chitin, Cholera, and Competence. <i>Science</i> , 2005, 310, 1775-1777.	12.6	79
10	Current developments in marine microbiology: high-pressure biotechnology and the genetic engineering of piezophiles. <i>Current Opinion in Biotechnology</i> , 2015, 33, 157-164.	6.6	71
11	Molecular adaptation in the world's deepest living animal: Insights from transcriptome sequencing of the hadal amphipod <i>Hirondellea gigas</i> . <i>Molecular Ecology</i> , 2017, 26, 3732-3743.	3.9	69
12	<i>Colwellia marinimaniae</i> sp. nov., a hyperpiezophilic species isolated from an amphipod within the Challenger Deep, Mariana Trench. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 824-831.	1.7	69
13	Vertically distinct microbial communities in the Mariana and Kermadec trenches. <i>PLoS ONE</i> , 2018, 13, e0195102.	2.5	62
14	Expansion of <i>Thaumarchaeota</i> habitat range is correlated with horizontal transfer of ATPase operons. <i>ISME Journal</i> , 2019, 13, 3067-3079.	9.8	59
15	Microbial Community Diversity Within Sediments from Two Geographically Separated Hadal Trenches. <i>Frontiers in Microbiology</i> , 2019, 10, 347.	3.5	59
16	A full-ocean-depth rated modular lander and pressure-retaining sampler capable of collecting hadal-endemic microbes under in situ conditions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 143, 50-57.	1.4	52
17	Single Cells within the Puerto Rico Trench Suggest Hadal Adaptation of Microbial Lineages. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8265-8276.	3.1	43
18	Biogeochemical investigations of marine methane seeps, Hydrate Ridge, Oregon. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	40

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19	The Effect of Hydrostatic Pressure on Enrichments of Hydrocarbon Degrading Microbes From the Gulf of Mexico Following the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , 2018, 9, 808.	3.5	40
20	Effects of High Hydrostatic Pressure on Coastal Bacterial Community Abundance and Diversity. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5992-6003.	3.1	35
21	DNA Backbone Sulfur-Modification Expands Microbial Growth Range under Multiple Stresses by its anti-oxidation function. <i>Scientific Reports</i> , 2017, 7, 3516.	3.3	33
22	The Molecular Basis for Life in Extreme Environments. <i>Annual Review of Biophysics</i> , 2021, 50, 343-372.	10.0	31
23	Isolation and characterization of the gene encoding single-stranded-DNA-binding protein (SSB) from four marine <i>Shewanella</i> strains that differ in their temperature and pressure optima for growth. <i>Microbiology (United Kingdom)</i> , 1997, 143, 1163-1174.	1.8	27
24	Unravelling the role of the ToxR-like transcriptional regulator WmpR in the marine antifouling bacterium <i>Pseudoalteromonas tunicata</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 1385-1394.	1.8	27
25	Distinctive gene and protein characteristics of extremely piezophilic <i>Colwellia</i> . <i>BMC Genomics</i> , 2020, 21, 692.	2.8	27
26	Transcriptomic Analysis Reveals Common Adaptation Mechanisms Under Different Stresses for Moderately Piezophilic Bacteria. <i>Microbial Ecology</i> , 2021, 81, 617-629.	2.8	26
27	Microbial Adaptation to High Pressure. , 0, , 331-348.		24
28	Isolation, Cultivation, and Diversity of Deep-Sea Piezophiles. , 0, , 203-217.		22
29	Adaptive laboratory evolution of <i>Escherichia coli</i> K-12 MG1655 for growth at high hydrostatic pressure. <i>Frontiers in Microbiology</i> , 2014, 5, 749.	3.5	22
30	Genome Reduction in <i>Psychromonas</i> Species within the Gut of an Amphipod from the Ocean's Deepest Point. <i>MSystems</i> , 2018, 3, .	3.8	21
31	Gut Microbial Divergence between Two Populations of the Hadal Amphipod <i>Hirondellea gigas</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	19
32	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. <i>Limnology and Oceanography</i> , 2021, 66, 2095-2109.	3.1	18
33	Ecotype Diversity and Conversion in <i>Photobacterium profundum</i> Strains. <i>PLoS ONE</i> , 2014, 9, e96953.	2.5	15
34	Adaptations of the Psychrotolerant Piezophile <i>Photobacterium profundum</i> Strain SS9. , 2014, , 319-337.		15
35	Inactivation of <i>Escherichia coli</i> by High Pressure. , 0, , 53-85.		13
36	The deepest mitochondrial genome sequenced from Mariana Trench <i>Hirondellea gigas</i> (Amphipoda). <i>Mitochondrial DNA Part B: Resources</i> , 2016, 1, 802-803.	0.4	13

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37	Saccharomyces cerevisiae Response to High Hydrostatic Pressure. , 0, , 145-166.		13
38	Microbial diversity and activity in Southern California salterns and bitterns: analogues for remnant ocean worlds. Environmental Microbiology, 2021, 23, 3825-3839.	3.8	12
39	Deep-Sea Geomicrobiology. , 2014, , 237-264.		11
40	Draft Genome Sequence of <i>Candidatus Bathyarchaeota</i> Archaeon BE326-BA-RLH, an Uncultured Denitrifier and Putative Anaerobic Methanotroph from South Africa's Deep Continental Biosphere. Microbiology Resource Announcements, 2018, 7, .	0.6	11
41	High Hydrostatic Pressure Effects in the Biosphere: from Molecules to Microbiology. , 2014, , 1-17.		10
42	Current state of athalassohaline deep-sea hypersaline anoxic basin research recommendations for future work and relevance to astrobiology. Environmental Microbiology, 2021, 23, 3360-3369.	3.8	10
43	Introduction to <i>High-Pressure Bioscience and Biotechnology</i> . Annals of the New York Academy of Sciences, 2010, 1189, 1-5.	3.8	7
44	Exploring the piezotolerant/piezophilic microbial community and genomic basis of piezotolerance within the deep subsurface Deccan traps. Extremophiles, 2019, 23, 421-433.	2.3	7
45	Effects of Growth-Permissive Pressures on the Physiology of Saccharomyces cerevisiae. , 0, , 167-179.		7
46	Influence of membrane organization on the dimerization ability of ToxR from Photobacterium profundum under high hydrostatic pressure. High Pressure Research, 2009, 29, 431-442.	1.2	5
47	Microbial communities from Arctic marine sediments respond slowly to methane addition during <i>ex situ</i> enrichments. Environmental Microbiology, 2020, 22, 1829-1846.	3.8	5
48	Extremophilic Vibrionaceae. , 0, , 156-171.		5
49	Factors Affecting Inactivation of Food-Borne Bacteria by High Pressure. , 0, , 181-193.		4
50	Introduction to Deep-Sea Microbiology. , 0, , 195-201.		4
51	Effects of High Pressure on Bacterial Spores. , 0, , 35-52.		4
52	Cellular Impact of Sublethal Pressures on <i>Escherichia coli</i> . , 0, , 87-100.		4
53	Comparative genomic analysis of obligately piezophilic Moritella yayanosii DB21MT-5 reveals bacterial adaptation to the Challenger Deep, Mariana Trench. Microbial Genomics, 2021, 7, .	2.0	4
54	A phylogenetic analysis of microbial communities associated with methane hydrate containing marine fluids and sediments in the Cascadia margin (ODP site 892B). FEMS Microbiology Letters, 1999, 177, 101-108.	1.8	4

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55	Genetic characterization of ompH mutants in the deep-sea bacterium <i>Photobacterium</i> sp. strain SS9. <i>Archives of Microbiology</i> , 1994, 162, 323-328.	2.2	3
56	Culture-Independent Characterization of Microbial Diversity in Selected Deep-Sea Sediments. , 0, , 219-236.		3
57	Deep-Sea Fungi. , 0, , 265-291.		3
58	Molecular Biology of the Model Piezophile, <i>Shewanella violacea</i> DSS12. , 0, , 305-317.		2
59	Effects of Hydrostatic Pressure on Viruses. , 0, , 19-34.		2
60	Physiology and Biochemistry of <i>Methanocaldococcus jannaschii</i> at Elevated Pressures. , 0, , 293-304.		2
61	Microbiomes of Hadal Fishes across Trench Habitats Contain Similar Taxa and Known Piezophiles. <i>MSphere</i> , 2022, 7, e0003222.	2.9	2
62	Antibiotic resistance in the most unlikely of places. <i>Microbial Biotechnology</i> , 2017, 10, 1454-1456.	4.2	1
63	<i>Listeria monocytogenes</i> High Hydrostatic Pressure Resistance and Survival Strategies. , 0, , 101-115.		1
64	Effects of Pressure on Lactic Acid Bacteria. , 0, , 117-144.		1
65	On the Past, Present, and Future Role of Biology in NASA's Exploration of our Solar System. , 2021, 53, .		0