Douglas H Bartlett

List of Publications by Year
in descending order

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	Microbiomes of Hadal Fishes across Trench Habitats Contain Similar Taxa and Known Piezophiles. MSphere, 2022, 7, e0003222.	2.9	2
2	Transcriptomic Analysis Reveals Common Adaptation Mechanisms Under Different Stresses for Moderately Piezophilic Bacteria. Microbial Ecology, 2021, 81, 617-629.	2.8	26
3	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. Limnology and Oceanography, 2021, 66, 2095-2109.	3.1	18
4	Current state of athalassohaline deepâ€‘sea hypersaline anoxic basin researchâ€”recommendations for future work and relevance to astrobiology. Environmental Microbiology, 2021, 23, 3360-3369.	3.8	10
5	Microbial diversity and activity in Southern California salterns and bitterns: analogues for remnant ocean worlds. Environmental Microbiology, 2021, 23, 3825-3839.	3.8	12
6	On the Past, Present, and Future Role of Biology in NASAâ€™s Exploration of our Solar System. , 2021, 53, .		0
7	The Molecular Basis for Life in Extreme Environments. Annual Review of Biophysics, 2021, 50, 343-372.	10.0	31
8	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
9	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
10	Distinctive gene and protein characteristics of extremely piezophilic Colwellia. BMC Genomics, 2020, 21, 692.	2.8	27
11	Expansion of <i>Thaumarchaeota</i> habitat range is correlated with horizontal transfer of ATPase operons. ISME Journal, 2019, 13, 3067-3079.	9.8	59
12	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
13	Microbial Community Diversity Within Sediments from Two Geographically Separated Hadal Trenches. Frontiers in Microbiology, 2019, 10, 347.	3.5	59
14	Gut Microbial Divergence between Two Populations of the Hadal Amphipod Hirondellea gigas. Applied and Environmental Microbiology, 2019, 85, .	3.1	19
15	A full-ocean-depth rated modular lander and pressure-retaining sampler capable of collecting hadal-endemic microbes under in situ conditions. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 143, 50-57.	1.4	52
16	Draft Genome Sequence of â€œ Candidatus Bathyarchaeotaâ€•Archaeon BE326-BA-RLH, an Uncultured Denitrifier and Putative Anaerobic Methanotroph from South Africaâ€™s Deep Continental Biosphere. Microbiology Resource Announcements, 2018, 7, .	0.6	11
17	Vertically distinct microbial communities in the Mariana and Kermadec trenches. PLoS ONE, 2018, 13, e0195102.	2.5	62
18	Genome Reduction in <i>Psychromonas</i> Species within the Gut of an Amphipod from the Oceanâ€™s Deepest Point. MSystems, 2018, 3, .	3.8	21

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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. Frontiers in Microbiology, 2018, 9, 808.	3.5	40
20	Molecular adaptation in the world's deepestâ€living animal: Insights from transcriptome sequencing of the hadal amphipod <i>Hirondellea gigas</i>. Molecular Ecology, 2017, 26, 3732-3743.	3.9	69
21	The metabolic potential of the single cell genomes obtained from the Challenger Deep, <scp>M</scp>ariana <scp>T</scp>rench within the candidate superphylum <scp>P</scp>arcubacteria (<scp>OD</scp>1). Environmental Microbiology, 2017, 19, 2769-2784.	3.8	88
22	DNA Backbone Sulfur-Modification Expands Microbial Growth Range under Multiple Stresses by its anti-oxidation function. Scientific Reports, 2017, 7, 3516.	3.3	33
23	Antibiotic resistance in the most unlikeliest of places. Microbial Biotechnology, 2017, 10, 1454-1456.	4.2	1
24	Colwellia marinimaniae sp. nov., a hyperpiezophilic species isolated from an amphipod within the Challenger Deep, Mariana Trench. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 824-831.	1.7	69
25	Identification of Free-Living and Particle-Associated Microbial Communities Present in Hadal Regions of the Mariana Trench. Frontiers in Microbiology, 2016, 7, 665.	3.5	99
26	The deepest mitochondrial genome sequenced from Mariana Trench Hirondellea gigas (Amphipoda). Mitochondrial DNA Part B: Resources, 2016, 1, 802-803.	0.4	13
27	Current developments in marine microbiology: high-pressure biotechnology and the genetic engineering of piezophiles. Current Opinion in Biotechnology, 2015, 33, 157-164.	6.6	71
28	Single Cells within the Puerto Rico Trench Suggest Hadal Adaptation of Microbial Lineages. Applied and Environmental Microbiology, 2015, 81, 8265-8276.	3.1	43
29	Ecotype Diversity and Conversion in Photobacterium profundum Strains. PLoS ONE, 2014, 9, e96953.	2.5	15
30	High Hydrostatic Pressure Effects in the Biosphere: from Molecules to Microbiology. , 2014, , 1-17.		10
31	Effects of High Hydrostatic Pressure on Coastal Bacterial Community Abundance and Diversity. Applied and Environmental Microbiology, 2014, 80, 5992-6003.	3.1	35
32	Deep-Sea Geomicrobiology. , 2014, , 237-264.		11
33	Adaptations of the Psychrotolerant Piezophile Photobacterium profundum Strain SS9. , 2014, , 319-337.		15
34	Adaptive laboratory evolution of Escherichia coli K-12 MG1655 for growth at high hydrostatic pressure. Frontiers in Microbiology, 2014, 5, 749.	3.5	22
35	Going Deeper: Metagenome of a Hadopelagic Microbial Community. PLoS ONE, 2011, 6, e20388.	2.5	95
36	Introduction to <i>Highâ€Pressure Bioscience and Biotechnology</i>. Annals of the New York Academy of Sciences, 2010, 1189, 1-5.	3.8	7

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37	Influence of membrane organization on the dimerization ability of ToxR fromPhotobacterium profundumunder high hydrostatic pressure. High Pressure Research, 2009, 29, 431-442.	1.2	5
38	The Unique 16S rRNA Genes of Piezophiles Reflect both Phylogeny and Adaptation. Applied and Environmental Microbiology, 2007, 73, 838-845.	3.1	126
39	Unravelling the role of the ToxR-like transcriptional regulator WmpR in the marine antifouling bacterium Pseudoalteromonas tunicata. Microbiology (United Kingdom), 2006, 152, 1385-1394.	1.8	27
40	Biogeochemical investigations of marine methane seeps, Hydrate Ridge, Oregon. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	40
41	MICROBIOLOGY: Chitin, Cholera, and Competence. Science, 2005, 310, 1775-1777.	12.6	79
42	Structure and regulation of the omega-3 polyunsaturated fatty acid synthase genes from the deep-sea bacterium Photobacterium profundum strain SS9 The GenBank accession numbers for the sequences reported in this paper are AF409100 and AF467805.. Microbiology (United Kingdom), 2002, 148, 1903-1913.	1.8	151
43	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. Applied and Environmental Microbiology, 1999, 65, 1710-1720.	3.1	221
44	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
45	Identification of a regulatory protein required for pressureâ€responsive gene expression in the deepâ€sea bacterium <i>Photobacterium</i> species strain SS9. Molecular Microbiology, 1998, 27, 977-985.	2.5	116
46	Isolation and characterization of the gene encoding single-stranded-DNA-binding protein (SSB) from four marine Shewanella strains that differ in their temperature and pressure optima for growth. Microbiology (United Kingdom), 1997, 143, 1163-1174.	1.8	27
47	The molecular biology of barophilic bacteria. Extremophiles, 1997, 1, 111-116.	2.3	86
48	Genetic characterization of ompH mutants in the deep-sea bacterium Photobacterium sp. strain SS9. Archives of Microbiology, 1994, 162, 323-328.	2.2	3
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	Inactivation of <i>Escherichia coli</i> by High Pressure. , 0, , 53-85.		13
53	Cellular Impact of Sublethal Pressures on <i>Escherichia coli</i>. , 0, , 87-100.		4
54	Isolation, Cultivation, and Diversity of Deep-Sea Piezophiles. , 0, , 203-217.		22

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55	Microbial Adaptation to High Pressure. , 0, , 331-348.		24
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, Shewanella violacea DSS12. , 0, , 305-317.		2
59	Effects of Hydrostatic Pressure on Viruses. , 0, , 19-34.		2
60	<i>Listeria monocytogenes</i>High Hydrostatic Pressure Resistance and Survival Strategies. , 0, , 101-115.		1
61	Effects of Pressure on Lactic Acid Bacteria. , 0, , 117-144.		1
62	Saccharomyces cerevisiae Response to High Hydrostatic Pressure. , 0, , 145-166.		13
63	Effects of Growth-Permissive Pressures on the Physiology of Saccharomyces cerevisiae. , 0, , 167-179.		7
64	Extremophilic Vibrionaceae. , 0, , 156-171.		5
65	Physiology and Biochemistry of<i>Methanocaldococcus jannaschii</i>at Elevated Pressures. , 0, , 293-304.		2