

Barbara J Macgregor

List of Publications by Year in descending order

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45
papers

3,057
citations

218677

26
h-index

302126

39
g-index

51
all docs

51
docs citations

51
times ranked

3887
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyphasic taxonomy of the genus <i>Shewanella</i> and description of <i>Shewanella oneidensis</i> sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 705-724.	1.7	574
2	Population Structure and Phylogenetic Characterization of Marine Benthic Archaea in Deep-Sea Sediments. Applied and Environmental Microbiology, 1999, 65, 4375-4384.	3.1	399
3	Integrating microbial ecology into ecosystem models: challenges and priorities. Biogeochemistry, 2012, 109, 7-18.	3.5	206
4	An improved fluorescence in situ hybridization protocol for the identification of bacteria and archaea in marine sediments. FEMS Microbiology Ecology, 2004, 50, 203-213.	2.7	165
5	Sulphate reduction and vertical distribution of sulphate-reducing bacteria quantified by rRNA slot-blot hybridization in a coastal marine sediment. Environmental Microbiology, 1999, 1, 65-74.	3.8	163
6	Composition and enzymatic function of particle-associated and free-living bacteria: a coastal/offshore comparison. ISME Journal, 2014, 8, 2167-2179.	9.8	159
7	Diversity, relative abundance and metabolic potential of bacterial endosymbionts in three <i>Bathymodiolus</i> mussel species from cold seeps in the Gulf of Mexico. Environmental Microbiology, 2007, 9, 1423-1438.	3.8	133
8	Improved 16S rRNA-targeted probe set for analysis of sulfate-reducing bacteria by fluorescence in situ hybridization. Journal of Microbiological Methods, 2007, 69, 523-528.	1.6	98
9	Related assemblages of sulphate-reducing bacteria associated with ultradeep gold mines of South Africa and deep basalt aquifers of Washington State. Environmental Microbiology, 2003, 5, 267-277.	3.8	96
10	The Guaymas Basin Hiking Guide to Hydrothermal Mounds, Chimneys, and Microbial Mats: Complex Seafloor Expressions of Subsurface Hydrothermal Circulation. Frontiers in Microbiology, 2016, 7, 75.	3.5	82
11	Spatial heterogeneity and underlying geochemistry of phylogenetically diverse orange and white <i>Beggiatoa</i> mats in Guaymas Basin hydrothermal sediments. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 67, 21-31.	1.4	73
12	Microbial Communities in Methane- and Short Chain Alkane-Rich Hydrothermal Sediments of Guaymas Basin. Frontiers in Microbiology, 2016, 7, 17.	3.5	72
13	<i>Shewanella pealeana</i> sp. nov., a member of the microbial community associated with the accessory nidamental gland of the squid <i>Loligo pealei</i> . International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1341-1351.	1.7	67
14	Quantitative PCR methods for RNA and DNA in marine sediments: maximizing yield while overcoming inhibition. FEMS Microbiology Ecology, 2010, 72, 143-151.	2.7	62
15	Isolation of small-subunit rRNA for stable isotopic characterization. Environmental Microbiology, 2002, 4, 451-464.	3.8	54
16	Linking Microbial Community Function to Phylogeny of Sulfate-Reducing <i>Deltaproteobacteria</i> in Marine Sediments by Combining Stable Isotope Probing with Magnetic-Bead Capture Hybridization of 16S rRNA. Applied and Environmental Microbiology, 2009, 75, 4927-4935.	3.1	52
17	Distinct Bacterial Communities in Surficial Seafloor Sediments Following the 2010 Deepwater Horizon Blowout. Frontiers in Microbiology, 2016, 7, 1384.	3.5	52
18	Evidence for a Dynamic Cycle between Mn and Co in the Water Column of a Stratified Lake. Environmental Science & Technology, 2002, 36, 468-476.	10.0	44

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19	Microbiological, molecular biological and stable isotopic evidence for nitrogen fixation in the open waters of Lake Michigan. <i>Environmental Microbiology</i> , 2001, 3, 205-219.	3.8	42
20	Why Orange Guaymas Basin <i>Beggiatoa</i> spp. Are Orange: Single-Filament-Genome-Enabled Identification of an Abundant Octaheme Cytochrome with Hydroxylamine Oxidase, Hydrazine Oxidase, and Nitrite Reductase Activities. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1183-1190.	3.1	36
21	Seasonal and Spatial Variability in Lake Michigan Sediment Small-Subunit rRNA Concentrations. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3908-3922.	3.1	35
22	Phylum BII. <i>Thermotogae</i> phy. nov., 2001, , 369-387.		34
23	Mobile Elements in a Single-Filament Orange Guaymas Basin <i>Beggiatoa</i> (â€œCandidatus <i>Maribeggiatoa</i> â€) sp. Draft Genome: Evidence for Genetic Exchange with Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3974-3985.	3.1	33
24	Sulfide oxidation, nitrate respiration, carbon acquisition, and electron transport pathways suggested by the draft genome of a single orange Guaymas Basin <i>Beggiatoa</i> (<i>Cand. Maribeggiatoa</i>) sp. filament. <i>Marine Genomics</i> , 2013, 11, 53-65.	1.1	32
25	Phylogeography, Salinity Adaptations and Metabolic Potential of the Candidate Division KB1 Bacteria Based on a Partial Single Cell Genome. <i>Frontiers in Microbiology</i> , 2016, 7, 1266.	3.5	32
26	Comparison of rRNA and Polar-Lipid-Derived Fatty Acid Biomarkers for Assessment of 13 C-Substrate Incorporation by Microorganisms in Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5246-5253.	3.1	31
27	Filamentous Giant <i>Beggiatoaceae</i> from the Guaymas Basin Are Capable of both Denitrification and Dissimilatory Nitrate Reduction to Ammonium. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	30
28	Microbial Communities Under Distinct Thermal and Geochemical Regimes in Axial and Off-Axis Sediments of Guaymas Basin. <i>Frontiers in Microbiology</i> , 2021, 12, 633649.	3.5	28
29	Evidence for two promoters for the cytochrome <i>c2</i> gene (<i>cycA</i>) of <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1991, 173, 3949-3957.	2.2	26
30	Depth-Related Differences in Organic Substrate Utilization by Major Microbial Groups in Intertidal Marine Sediment. <i>Applied and Environmental Microbiology</i> , 2013, 79, 389-392.	3.1	24
31	Transcription of the <i>Rhodobacter sphaeroides cycA</i> P1 Promoter by Alternate RNA Polymerase Holoenzymes. <i>Journal of Bacteriology</i> , 1998, 180, 1-9.	2.2	19
32	Molecular approaches to the study of aquatic microbial communities. <i>Current Opinion in Biotechnology</i> , 1999, 10, 220-224.	6.6	16
33	Single-stranded conformational polymorphism for separation of mixed rRNAs (rRNA-SSCP), a new method for profiling microbial communities. <i>Systematic and Applied Microbiology</i> , 2006, 29, 661-670.	2.8	15
34	Identification, Expression and Activity of Candidate Nitrite Reductases From Orange <i>Beggiatoaceae</i> , Guaymas Basin. <i>Frontiers in Microbiology</i> , 2019, 10, 644.	3.5	15
35	Distribution and abundance of Gram-positive bacteria in the environment: development of a group-specific probe. <i>Journal of Microbiological Methods</i> , 2001, 44, 193-203.	1.6	13
36	Genetic and physical mapping of the <i>Rhodobacter sphaeroides</i> photosynthetic gene cluster from R-prime pWS2. <i>Plasmid</i> , 1991, 25, 163-176.	1.4	11

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37	Evidence for tight coupling between active bacteria and particulate organic carbon during seasonal stratification of Lake Michigan. <i>Limnology and Oceanography</i> , 2001, 46, 1202-1208.	3.1	10
38	Interactions between temperature and energy supply drive microbial communities in hydrothermal sediment. <i>Communications Biology</i> , 2021, 4, 1006.	4.4	10
39	Abundant Intergenic TAACTGA Direct Repeats and Putative Alternate RNA Polymerase β Subunits in Marine Beggiatoaceae Genomes: Possible Regulatory Roles and Origins. <i>Frontiers in Microbiology</i> , 2015, 6, 1397.	3.5	5
40	Visualizing Evolutionary Relationships of Multidomain Proteins: An Example from Receiver (REC) Domains of Sensor Histidine Kinases in the Candidatus Maribeggiatoa str. Orange Guaymas Draft Genome. <i>Frontiers in Microbiology</i> , 2016, 7, 1780.	3.5	2
41	10. Multiplication is vexation: a genomic perspective on cell division and DNA replication in the large sulfur bacteria. , 2017, , .		2
42	Soluble Cytochrome Synthesis in Rhodobacter Sphaeroides. , 1990, , 95-104.		2
43	Oxalobacter Allison, Dawson, Mayberry and Foss 1985b, 375VP (Effective publication: Allison, Dawson,) Tj ETQq1 1 0.784314 rgBT /Ove		
44	Click chemistry tagging of proteins in living cells: new possibilities for microbial (meta) proteomics. <i>Environmental Microbiology</i> , 2014, 16, 2353-2356.	3.8	0
45	Growth Patterns of Giant Deep Sea Beggiatoaceae from a Guaymas Basin Vent Site. <i>Springer Oceanography</i> , 2020, , 173-181.	0.3	0