

Ken Takai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9117095/publications.pdf>

Version: 2024-02-01

259
papers

19,247
citations

10986

71
h-index

16183

124
g-index

271
all docs

271
docs citations

271
times ranked

12090
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Detection and Quantification of Members of the Archaeal Community by Quantitative PCR Using Fluorogenic Probes. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5066-5072.	3.1	724
2	Cell proliferation at 122Å°C and isotopically heavy CH ₄ production by a hyperthermophilic methanogen under high-pressure cultivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10949-10954.	7.1	679
3	The versatile $\hat{\mu}$ -proteobacteria: key players in sulphidic habitats. <i>Nature Reviews Microbiology</i> , 2006, 4, 458-468.	28.6	672
4	Biogeographical distribution and diversity of microbes in methane hydrate-bearing deep marine sediments on the Pacific Ocean Margin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2815-2820.	7.1	644
5	Isolation of an archaeon at the prokaryote-eukaryote interface. <i>Nature</i> , 2020, 577, 519-525.	27.8	449
6	Microbial Communities Associated with Geological Horizons in Coastal Subseafloor Sediments from the Sea of Okhotsk. <i>Applied and Environmental Microbiology</i> , 2003, 69, 7224-7235.	3.1	446
7	Genetic Diversity of Archaea in Deep-Sea Hydrothermal Vent Environments. <i>Genetics</i> , 1999, 152, 1285-1297.	2.9	433
8	Comparative Genomic Analysis of the Class Epsilonproteobacteria and Proposed Reclassification to Epsilonbacteraeota (phyl. nov.). <i>Frontiers in Microbiology</i> , 2017, 8, 682.	3.5	409
9	Archaeal Diversity in Waters from Deep South African Gold Mines. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5750-5760.	3.1	387
10	<i>Sulfurovum lithotrophicum</i> gen. nov., sp. nov., a novel sulfur-oxidizing chemolithoautotroph within the $\hat{\mu}$ -Proteobacteria isolated from Okinawa Trough hydrothermal sediments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 1477-1482.	1.7	358
11	Deep-sea vent chemoautotrophs: diversity, biochemistry and ecological significance. <i>FEMS Microbiology Ecology</i> , 2008, 65, 1-14.	2.7	303
12	Insights into the evolution of Archaea and eukaryotic protein modifier systems revealed by the genome of a novel archaeal group. <i>Nucleic Acids Research</i> , 2011, 39, 3204-3223.	14.5	303
13	Geochemical and microbiological evidence for a hydrogen-based, hyperthermophilic subsurface lithoautotrophic microbial ecosystem (HyperSLiME) beneath an active deep-sea hydrothermal field. <i>Extremophiles</i> , 2004, 8, 269-282.	2.3	285
14	Distribution of Archaea in a Black Smoker Chimney Structure. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3618-3629.	3.1	279
15	Hadal biosphere: Insight into the microbial ecosystem in the deepest ocean on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1230-6.	7.1	277
16	<i>Sulfurimonas autotrophica</i> gen. nov., sp. nov., a novel sulfur-oxidizing $\hat{\mu}$ -proteobacterium isolated from hydrothermal sediments in the Mid-Okinawa Trough. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 1801-1805.	1.7	252
17	Distribution, phylogenetic diversity and physiological characteristics of epsilon-Proteobacteria in a deep-sea hydrothermal field. <i>Environmental Microbiology</i> , 2005, 7, 1619-1632.	3.8	247
18	<i>Sulfurimonas parvalvinellae</i> sp. nov., a novel mesophilic, hydrogen- and sulfur-oxidizing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent polychaete nest, reclassification of <i>Thiomicrospira denitrificans</i> as <i>Sulfurimonas denitrificans</i> comb. nov. and emended description of the genus <i>Sulfurimonas</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 1725-1733.	1.7	229

#	ARTICLE	IF	CITATIONS
19	Deep-sea vent $\hat{\mu}$ -proteobacterial genomes provide insights into emergence of pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12146-12150.	7.1	228
20	Submarine hydrothermal activity and gold-rich mineralization at Brothers Volcano, Kermadec Arc, New Zealand. Mineralium Deposita, 2011, 46, 541-584.	4.1	219
21	Hydrogen-driven subsurface lithoautotrophic microbial ecosystems (SLiMEs): do they exist and why should we care?. Trends in Microbiology, 2005, 13, 405-410.	7.7	186
22	Enzymatic and Genetic Characterization of Carbon and Energy Metabolisms by Deep-Sea Hydrothermal Chemolithoautotrophic Isolates of Epsilonproteobacteria. Applied and Environmental Microbiology, 2005, 71, 7310-7320.	3.1	182
23	Variability in microbial community and venting chemistry in a sediment-hosted backarc hydrothermal system: Impacts of seafloor phase-separation. FEMS Microbiology Ecology, 2005, 54, 141-155.	2.7	163
24	A Deeply Branching Thermophilic Bacterium with an Ancient Acetyl-CoA Pathway Dominates a Subsurface Ecosystem. PLoS ONE, 2012, 7, e30559.	2.5	161
25	Microbial community in a sediment-hosted CO ₂ lake of the southern Okinawa Trough hydrothermal system. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14164-14169.	7.1	159
26	Thermoelectricity Generation and Electron-Magnon Scattering in a Natural Chalcopyrite Mineral from a Deep-Sea Hydrothermal Vent. Angewandte Chemie - International Edition, 2015, 54, 12909-12913.	13.8	156
27	A primordial and reversible TCA cycle in a facultatively chemolithoautotrophic thermophile. Science, 2018, 359, 559-563.	12.6	155
28	Isolation and phylogenetic diversity of members of previously uncultivated $\hat{\alpha}$ -Proteobacteria in deep-sea hydrothermal fields. FEMS Microbiology Letters, 2003, 218, 167-174.	1.8	154
29	Fungal diversity in deep-sea sediments – the presence of novel fungal groups. Fungal Ecology, 2010, 3, 316-325.	1.6	139
30	Characterization of C ₁ -Metabolizing Prokaryotic Communities in Methane Seep Habitats at the Kuroshima Knoll, Southern Ryukyu Arc, by Analyzing pmoA, mmoX, mxaF, mcrA, and 16S rRNA Genes. Applied and Environmental Microbiology, 2004, 70, 7445-7455.	3.1	130
31	Sulfur Metabolisms in Epsilon- and Gamma-Proteobacteria in Deep-Sea Hydrothermal Fields. Frontiers in Microbiology, 2011, 2, 192.	3.5	129
32	Nitratiruptor tergaricus gen. nov., sp. nov. and Nitratifactor salsuginis gen. nov., sp. nov., nitrate-reducing chemolithoautotrophs of the $\hat{\mu}$ -Proteobacteria isolated from a deep-sea hydrothermal system in the Mid-Okinawa Trough. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 925-933.	1.7	128
33	Hydrothermal fluid geochemistry at the Iheya North field in the mid-Okinawa Trough: Implication for origin of methane in seafloor fluid circulation systems. Geochemical Journal, 2011, 45, 109-124.	1.0	122
34	Genetic and functional properties of uncultivated thermophilic crenarchaeotes from a subsurface gold mine as revealed by analysis of genome fragments. Environmental Microbiology, 2005, 7, 1967-1984.	3.8	119
35	Hydrothermal Vent Ecosystems. Oceanography, 2007, 20, 14-23.	1.0	112
36	Stress State in the Largest Displacement Area of the 2011 Tohoku-Oki Earthquake. Science, 2013, 339, 687-690.	12.6	112

#	ARTICLE	IF	CITATIONS
37	A molecular view of archaeal diversity in marine and terrestrial hot water environments. <i>FEMS Microbiology Ecology</i> , 1999, 28, 177-188.	2.7	110
38	Cultivation of methanogenic community from subseafloor sediments using a continuous-flow bioreactor. <i>ISME Journal</i> , 2011, 5, 1913-1925.	9.8	108
39	Spatial Distribution of Marine Crenarchaeota Group I in the Vicinity of Deep-Sea Hydrothermal Systems. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2404-2413.	3.1	107
40	<i>Deferribacter desulfuricans</i> sp. nov., a novel sulfur-, nitrate- and arsenate-reducing thermophile isolated from a deep-sea hydrothermal vent. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 839-846.	1.7	105
41	Metagenomic Analysis of Viral Communities in (Hado)Pelagic Sediments. <i>PLoS ONE</i> , 2013, 8, e57271.	2.5	105
42	Culture-Dependent and -Independent Characterization of Microbial Communities Associated with a Shallow Submarine Hydrothermal System Occurring within a Coral Reef off Taketomi Island, Japan. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7642-7656.	3.1	104
43	<i>Sulfurovum aggregans</i> sp. nov., a hydrogen-oxidizing, thiosulfate-reducing chemolithoautotroph within the Epsilonproteobacteria isolated from a deep-sea hydrothermal vent chimney, and an emended description of the genus <i>Sulfurovum</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3195-3201.	1.7	101
44	Electrochemical CO ₂ Reduction by Ni-containing Iron Sulfides: How Is CO ₂ Electrochemically Reduced at Bisulfide-Bearing Deep-sea Hydrothermal Precipitates?. <i>Electrochimica Acta</i> , 2014, 141, 311-318.	5.2	100
45	Microbial Diversity in Deep-sea Methane Seep Sediments Presented by SSU rRNA Gene Tag Sequencing. <i>Microbes and Environments</i> , 2012, 27, 382-390.	1.6	99
46	Microbial community and geochemical analyses of trans-trench sediments for understanding the roles of hadal environments. <i>ISME Journal</i> , 2020, 14, 740-756.	9.8	99
47	Quantification of <i>mcrA</i> by fluorescent PCR in methanogenic and methanotrophic microbial communities. <i>FEMS Microbiology Ecology</i> , 2008, 64, 240-247.	2.7	98
48	<i>Thermosiphon japonicus</i> sp. nov., an extremely thermophilic bacterium isolated from a deep-sea hydrothermal vent in Japan. <i>Extremophiles</i> , 2000, 4, 9-17.	2.3	96
49	Related assemblages of sulphate-reducing bacteria associated with ultradeep gold mines of South Africa and deep basalt aquifers of Washington State. <i>Environmental Microbiology</i> , 2003, 5, 267-277.	3.8	96
50	Phylogenetic and enzymatic diversity of deep subseafloor aerobic microorganisms in organics- and methane-rich sediments off Shimokita Peninsula. <i>Extremophiles</i> , 2008, 12, 519-527.	2.3	93
51	Isolation and physiological characterization of two novel, piezophilic, thermophilic chemolithoautotrophs from a deep-sea hydrothermal vent chimney. <i>Environmental Microbiology</i> , 2009, 11, 1983-1997.	3.8	93
52	<i>Hydrogenimonas thermophila</i> gen. nov., sp. nov., a novel thermophilic, hydrogen-oxidizing chemolithoautotroph within the β -Proteobacteria, isolated from a black smoker in a Central Indian Ridge hydrothermal field. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 25-32.	1.7	92
53	Novel Chemoautotrophic Endosymbiosis between a Member of the Epsilonproteobacteria and the Hydrothermal-Vent Gastropod <i>Alviniconcha</i> aff. <i>hessleri</i> (Gastropoda: Provannidae) from the Indian Ocean. <i>Applied and Environmental Microbiology</i> , 2005, 71, 5440-5450.	3.1	92
54	<i>Thermaerobacter marianensis</i> gen. nov., sp. nov., an aerobic extremely thermophilic marine bacterium from the 11000 m deep Mariana Trench. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 1999, 49, 619-628.	1.7	91

#	ARTICLE	IF	CITATIONS
55	Variability in the microbial communities and hydrothermal fluid chemistry at the newly discovered Mariner hydrothermal field, southern Lau Basin. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	91
56	<i>Sulfurihydrogenibium subterraneum</i> gen. nov., sp. nov., from a subsurface hot aquifer. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 823-827.	1.7	89
57	Isolation and Characterization of a Thermophilic, Obligately Anaerobic and Heterotrophic Marine <i>Chloroflexi</i> Bacterium from a <i>Chloroflexi</i> -dominated Microbial Community Associated with a Japanese Shallow Hydrothermal System, and Proposal for <i>Thermomarinilinea lacunofontalis</i> gen. nov., sp. nov.. <i>Microbes and Environments</i> , 2013, 28, 228-235.	1.6	89
58	Highly alkaline, high-temperature hydrothermal fluids in the early Archean ocean. <i>Precambrian Research</i> , 2010, 182, 230-238.	2.7	88
59	<i>Marinobacter alkaliphilus</i> sp. nov., a novel alkaliphilic bacterium isolated from subseafloor alkaline serpentine mud from Ocean Drilling Program Site 1200½at South Chamorro Seamount, Mariana Forearc. <i>Extremophiles</i> , 2005, 9, 17-27.	2.3	87
60	Microbial Community in Black Rust Exposed to Hot Ridge Flank Crustal Fluids. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6789-6799.	3.1	86
61	Serpentinized troctolites exposed near the Kairei Hydrothermal Field, Central Indian Ridge: Insights into the origin of the Kairei hydrothermal fluid supporting a unique microbial ecosystem. <i>Earth and Planetary Science Letters</i> , 2009, 280, 128-136.	4.4	86
62	Archaeal Diversity and Distribution along Thermal and Geochemical Gradients in Hydrothermal Sediments at the Yonaguni Knoll IV Hydrothermal Field in the Southern Okinawa Trough. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1198-1211.	3.1	83
63	Discovery of New Hydrothermal Activity and Chemosynthetic Fauna on the Central Indian Ridge at 18°â€“20°S. <i>PLoS ONE</i> , 2012, 7, e32965.	2.5	83
64	Host-Symbiont Relationships in Hydrothermal Vent Gastropods of the Genus <i>Alviniconcha</i> from the Southwest Pacific. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1388-1393.	3.1	81
65	Electrical Current Generation across a Black Smoker Chimney. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7692-7694.	13.8	80
66	Geomicrobiological exploration and characterization of a novel deep-sea hydrothermal system at the TOTO caldera in the Mariana Volcanic Arc. <i>Environmental Microbiology</i> , 2006, 8, 37-49.	3.8	79
67	Deep-biosphere methane production stimulated by geofluids in the Nankai accretionary complex. <i>Science Advances</i> , 2018, 4, eaao4631.	10.3	79
68	Bacterial community shift along a subsurface geothermal water stream in a Japanese gold mine. <i>Extremophiles</i> , 2005, 9, 169-184.	2.3	78
69	<i>Methanothermococcus okinawensis</i> sp. nov., a thermophilic, methane-producing archaeon isolated from a Western Pacific deep-sea hydrothermal vent system.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 1089-1095.	1.7	78
70	<i>Persephonella hydrogeniphila</i> sp. nov., a novel thermophilic, hydrogen-oxidizing bacterium from a deep-sea hydrothermal vent chimney. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 863-869.	1.7	77
71	Archaeology of Archaea: geomicrobiological record of Pleistocene thermal events concealed in a deep-sea subseafloor environment. <i>Extremophiles</i> , 2001, 5, 385-392.	2.3	76
72	Archaeal diversity and community development in deep-sea hydrothermal vents. <i>Current Opinion in Microbiology</i> , 2011, 14, 282-291.	5.1	76

#	ARTICLE	IF	CITATIONS
73	<i>Thiomicrospira thermophila</i> sp. nov., a novel microaerobic, thermotolerant, sulfur-oxidizing chemolithomixotroph isolated from a deep-sea hydrothermal fumarole in the TOTO caldera, Mariana Arc, Western Pacific. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 2325-2333.	1.7	75
74	Microbial Diversity in Sediments from the Bottom of the Challenger Deep, the Mariana Trench. <i>Microbes and Environments</i> , 2018, 33, 186-194.	1.6	75
75	Ultramafics-Hydrothermalism-Hydrogenesis-HyperSLiME (UltraH ³) linkage: a key insight into early microbial ecosystem in the Archean deep-sea hydrothermal systems. <i>Paleontological Research</i> , 2006, 10, 269-282.	1.0	73
76	Isolation and Metabolic Characteristics of Previously Uncultured Members of the Order Aquificales in a Subsurface Gold Mine. <i>Applied and Environmental Microbiology</i> , 2002, 68, 3046-3054.	3.1	72
77	Allying with armored snails: the complete genome of gammaproteobacterial endosymbiont. <i>ISME Journal</i> , 2014, 8, 40-51.	9.8	72
78	Diversity among three novel groups of hyperthermophilic deep-sea <i>Thermococcus</i> species from three sites in the northeastern Pacific Ocean. <i>FEMS Microbiology Ecology</i> , 2001, 36, 51-60.	2.7	71
79	Distribution and phylogenetic diversity of the subsurface microbial community in a Japanese epithermal gold mine. <i>Extremophiles</i> , 2003, 7, 307-317.	2.3	71
80	Molecular characterization of inorganic sulfur compound metabolism in the deep-sea epsilonproteobacterium <i>Sulfurovum</i> sp. NBC3741. <i>Environmental Microbiology</i> , 2010, 12, 1144-1153.	3.8	70
81	<i>Methylothermus subterraneus</i> sp. nov., a moderately thermophilic methanotroph isolated from a terrestrial subsurface hot aquifer. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 2646-2653.	1.7	70
82	Geochemical origin of hydrothermal fluid methane in sediment-associated fields and its relevance to the geographical distribution of whole hydrothermal circulation. <i>Chemical Geology</i> , 2013, 339, 213-225.	3.3	70
83	Igneous, Alteration and Exhumation Processes Recorded in Abyssal Peridotites and Related Fault Rocks from an Oceanic Core Complex along the Central Indian Ridge. <i>Journal of Petrology</i> , 2009, 50, 1299-1325.	2.8	69
84	Theoretical constraints of physical and chemical properties of hydrothermal fluids on variations in chemolithotrophic microbial communities in seafloor hydrothermal systems. <i>Progress in Earth and Planetary Science</i> , 2014, 1, 5.	3.0	69
85	Diversity of fluid geochemistry affected by processes during fluid upwelling in active hydrothermal fields in the Izena Hole, the middle Okinawa Trough back-arc basin. <i>Geochemical Journal</i> , 2014, 48, 357-369.	1.0	69
86	<i>Marinithermus hydrothermalis</i> gen. nov., sp. nov., a strictly aerobic, thermophilic bacterium from a deep-sea hydrothermal vent chimney. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 59-65.	1.7	68
87	Molecular biological and isotopic biogeochemical prognoses of the nitrification-driven dynamic microbial nitrogen cycle in hadopelagic sediments. <i>Environmental Microbiology</i> , 2013, 15, 3087-3107.	3.8	68
88	Nitrogen isotope chemostratigraphy of the Ediacaran and Early Cambrian platform sequence at Three Gorges, South China. <i>Gondwana Research</i> , 2014, 25, 1057-1069.	6.0	68
89	Metals likely promoted protometabolism in early ocean alkaline hydrothermal systems. <i>Science Advances</i> , 2019, 5, eaav7848.	10.3	68
90	<i>Lebetimonas acidiphila</i> gen. nov., sp. nov., a novel thermophilic, acidophilic, hydrogen-oxidizing chemolithoautotroph within the "Epsilonproteobacteria"™, isolated from a deep-sea hydrothermal fumarole in the Mariana Arc. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 183-189.	1.7	67

#	ARTICLE	IF	CITATIONS
91	Water column imaging with multibeam echo-sounding in the mid-Okinawa Trough: Implications for distribution of deep-sea hydrothermal vent sites and the cause of acoustic water column anomaly. <i>Geochemical Journal</i> , 2015, 49, 579-596.	1.0	67
92	<i>Methanotorris formicicus</i> sp. nov., a novel extremely thermophilic, methane-producing archaeon isolated from a black smoker chimney in the Central Indian Ridge. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 1095-1100.	1.7	65
93	The Scaly-foot Snail genome and implications for the origins of biomineralised armour. <i>Nature Communications</i> , 2020, 11, 1657.	12.8	64
94	<i>Pelolinea submarina</i> gen. nov., sp. nov., an anaerobic, filamentous bacterium of the phylum Chloroflexi isolated from seafloor sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 812-818.	1.7	63
95	Distribution and Niche Separation of Planktonic Microbial Communities in the Water Columns from the Surface to the Hadal Waters of the Japan Trench under the Eutrophic Ocean. <i>Frontiers in Microbiology</i> , 2016, 7, 1261.	3.5	62
96	Comparison of microbial communities associated with phase-separation-induced hydrothermal fluids at the Yonaguni Knoll IV hydrothermal field, the Southern Okinawa Trough. <i>FEMS Microbiology Ecology</i> , 2009, 67, 351-370.	2.7	61
97	Sclerite formation in the hydrothermal-vent "scaly-foot" gastropod: possible control of iron sulfide biomineralization by the animal. <i>Earth and Planetary Science Letters</i> , 2006, 242, 39-50.	4.4	60
98	Quantification of <i>mcrA</i> by quantitative fluorescent PCR in sediments from methane seep of the Nankai Trough. <i>FEMS Microbiology Ecology</i> , 2006, 57, 149-157.	2.7	60
99	Phylogenetic diversity of sulfate-reducing prokaryotes in active deep-sea hydrothermal vent chimney structures. <i>FEMS Microbiology Letters</i> , 2004, 232, 145-152.	1.8	59
100	Unveiling the RNA virosphere associated with marine microorganisms. <i>Molecular Ecology Resources</i> , 2018, 18, 1444-1455.	4.8	59
101	<i>Balnearium lithotrophicum</i> gen. nov., sp. nov., a novel thermophilic, strictly anaerobic, hydrogen-oxidizing chemolithoautotroph isolated from a black smoker chimney in the Suiyo Seamount hydrothermal system. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 1947-1954.	1.7	58
102	<i>Thioreductor micantisoli</i> gen. nov., sp. nov., a novel mesophilic, sulfur-reducing chemolithoautotroph within the β -Proteobacteria isolated from hydrothermal sediments in the Mid-Okinawa Trough. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 599-605.	1.7	57
103	Reactions between basalt and CO ₂ -rich seawater at 250 and 350 °C, 500 bars: Implications for the CO ₂ sequestration into the modern oceanic crust and the composition of hydrothermal vent fluid in the CO ₂ -rich early ocean. <i>Chemical Geology</i> , 2013, 359, 1-9.	3.3	56
104	Spontaneous and Widespread Electricity Generation in Natural Deep-Sea Hydrothermal Fields. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5725-5728.	13.8	56
105	Seafloor microbial communities associated with rapid turbidite deposition in the Gulf of Mexico continental slope (IODP Expedition 308). <i>FEMS Microbiology Ecology</i> , 2009, 69, 410-424.	2.7	55
106	Disturbance of deep-sea environments induced by the M9.0 Tohoku Earthquake. <i>Scientific Reports</i> , 2012, 2, 270.	3.3	55
107	A Long-Term Cultivation of an Anaerobic Methane-Oxidizing Microbial Community from Deep-Sea Methane-Seep Sediment Using a Continuous-Flow Bioreactor. <i>PLoS ONE</i> , 2014, 9, e105356.	2.5	55
108	Microbial ecology of mid-ocean ridges and back-arc basins. <i>Geophysical Monograph Series</i> , 2006, , 185-213.	0.1	55

#	ARTICLE	IF	CITATIONS
109	Development of 16S rRNA gene-targeted primers for detection of archaeal anaerobic methanotrophs (ANMEs). <i>FEMS Microbiology Letters</i> , 2009, 297, 31-37.	1.8	54
110	Generation of Electricity and Illumination by an Environmental Fuel Cell in Deep-Sea Hydrothermal Vents. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10758-10761.	13.8	54
111	<i>Aeropyrum camini</i> sp. nov., a strictly aerobic, hyperthermophilic archaeon from a deep-sea hydrothermal vent chimney. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 329-335.	1.7	52
112	Genome Sequence of a Mesophilic Hydrogenotrophic Methanogen <i>Methanocella paludicola</i> , the First Cultivated Representative of the Order Methanocellales. <i>PLoS ONE</i> , 2011, 6, e22898.	2.5	52
113	Post-drilling changes in fluid discharge pattern, mineral deposition, and fluid chemistry in the Iheya North hydrothermal field, Okinawa Trough. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4774-4790.	2.5	52
114	Free energy distribution and hydrothermal mineral precipitation in Hadean submarine alkaline vent systems: Importance of iron redox reactions under anoxic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 175, 1-19.	3.9	52
115	Molecular Characterization of Potential Nitrogen Fixation by Anaerobic Methane-Oxidizing Archaea in the Methane Seep Sediments at the Number 8 Kumano Knoll in the Kumano Basin, Offshore of Japan. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7153-7162.	3.1	50
116	Variance and potential niche separation of microbial communities in seafloor sediments off Shimokita Peninsula, Japan. <i>Environmental Microbiology</i> , 2016, 18, 1889-1906.	3.8	48
117	Biometric assessment of deep-sea vent megabenthic communities using multi-resolution 3D image reconstructions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 116, 200-219.	1.4	48
118	<i>Mariprofundus micogutta</i> sp. nov., a novel iron-oxidizing zeta-proteobacterium isolated from a deep-sea hydrothermal field at the Bayonnaise knoll of the Izu-Ogasawara arc, and a description of <i>Mariprofundales</i> ord. nov. and <i>Zetaproteobacteria</i> classis nov.. <i>Archives of Microbiology</i> , 2017, 199, 335-346.	2.2	48
119	High Connectivity of Animal Populations in Deep-Sea Hydrothermal Vent Fields in the Central Indian Ridge Relevant to Its Geological Setting. <i>PLoS ONE</i> , 2013, 8, e81570.	2.5	48
120	<i>Thiobacter subterraneus</i> gen. nov., sp. nov., an obligately chemolithoautotrophic, thermophilic, sulfur-oxidizing bacterium from a subsurface hot aquifer. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 467-472.	1.7	47
121	<i>Kosmotoga arenicoralina</i> sp. nov., a thermophilic and obligately anaerobic heterotroph isolated from a shallow hydrothermal system occurring within a coral reef, southern part of the Yaeyama Archipelago, Japan, reclassification of <i>Thermococcoides shengliensis</i> as <i>Kosmotoga shengliensis</i> comb. nov., and emended description of the genus <i>Kosmotoga</i> . <i>Archives of Microbiology</i> , 2010, 192, 811-819.	2.2	47
122	Variability in Microbial Communities in Black Smoker Chimneys at the NW Caldera Vent Field, Brothers Volcano, Kermadec Arc. <i>Geomicrobiology Journal</i> , 2009, 26, 552-569.	2.0	46
123	<i>Hydrogenivirga caldilitoris</i> gen. nov., sp. nov., a novel extremely thermophilic, hydrogen- and sulfur-oxidizing bacterium from a coastal hydrothermal field. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 2079-2084.	1.7	45
124	Hydrogen-rich hydrothermal environments in the Hadean ocean inferred from serpentinization of komatiites at 300°C and 500 bar. <i>Progress in Earth and Planetary Science</i> , 2015, 2, .	3.0	45
125	Long-Term Cultivation and Metagenomics Reveal Ecophysiology of Previously Uncultivated Thermophiles Involved in Biogeochemical Nitrogen Cycle. <i>Microbes and Environments</i> , 2018, 33, 107-110.	1.6	45
126	Shifts in archaeal communities associated with lithological and geochemical variations in subsurface Cretaceous rock. <i>Environmental Microbiology</i> , 2003, 5, 309-320.	3.8	44

#	ARTICLE	IF	CITATIONS
127	Subseafloor Microbial Communities in Methane Hydrate-Bearing Sediment at Two Distinct Locations (ODP Leg204) in the Cascadia Margin. <i>Microbes and Environments</i> , 2008, 23, 317-325.	1.6	44
128	Physiological and isotopic characteristics of nitrogen fixation by hyperthermophilic methanogens: Key insights into nitrogen anabolism of the microbial communities in Archean hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 138, 117-135.	3.9	44
129	Spatial Distribution of Viruses Associated with Planktonic and Attached Microbial Communities in Hydrothermal Environments. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1311-1320.	3.1	42
130	Bacterial Lifestyle in a Deep-sea Hydrothermal Vent Chimney Revealed by the Genome Sequence of the Thermophilic Bacterium <i>Deferribacter desulfuricans</i> SSM1. <i>DNA Research</i> , 2010, 17, 123-137.	3.4	41
131	Biogeography of <i>Persephonella</i> in deep-sea hydrothermal vents of the Western Pacific. <i>Frontiers in Microbiology</i> , 2013, 4, 107.	3.5	41
132	Post-Drilling Changes in Seabed Landscape and Megabenthos in a Deep-Sea Hydrothermal System, the Iheya North Field, Okinawa Trough. <i>PLoS ONE</i> , 2015, 10, e0123095.	2.5	41
133	Geoelectrochemical CO production: Implications for the autotrophic origin of life. <i>Science Advances</i> , 2018, 4, eaao7265.	10.3	41
134	Molecular Phylogenetic Analysis of Archaeal Intron-Containing Genes Coding for rRNA Obtained from a Deep-Subsurface Geothermal Water Pool. <i>Applied and Environmental Microbiology</i> , 1999, 65, 5586-5589.	3.1	41
135	The first microbiological contamination assessment by deep-sea drilling and coring by the D/V Chikyu at the Iheya North hydrothermal field in the Mid-Okinawa Trough (IODP Expedition 331). <i>Frontiers in Microbiology</i> , 2013, 4, 327.	3.5	40
136	Molybdenum Sulfide: A Bioinspired Electrocatalyst for Dissimilatory Ammonia Synthesis with Geoelectrical Current. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2154-2164.	3.1	40
137	Physiological and Genomic Features of a Novel Sulfur-Oxidizing Gammaproteobacterium Belonging to a Previously Uncultivated Symbiotic Lineage Isolated from a Hydrothermal Vent. <i>PLoS ONE</i> , 2014, 9, e104959.	2.5	40
138	<i>Thermotomaculum hydrothermale</i> gen. nov., sp. nov., a novel heterotrophic thermophile within the phylum Acidobacteria from a deep-sea hydrothermal vent chimney in the Southern Okinawa Trough. <i>Extremophiles</i> , 2012, 16, 245-253.	2.3	39
139	<i>Sunxiuqinia faeciviva</i> sp. nov., a facultatively anaerobic organoheterotroph of the Bacteroidetes isolated from deep seafloor sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1602-1609.	1.7	39
140	Genomics insights into ecotype formation of ammonia-oxidizing archaea in the deep ocean. <i>Environmental Microbiology</i> , 2019, 21, 716-729.	3.8	39
141	Dynamic process of turbidity generation triggered by the 2011 Tohoku earthquake. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	38
142	Molecular evidence of digestion and absorption of epibiotic bacterial community by deep-sea crab <i>Shinkaia crosnieri</i> . <i>ISME Journal</i> , 2015, 9, 821-831.	9.8	36
143	Compositional, Physiological and Metabolic Variability in Microbial Communities Associated with Geochemically Diverse, Deep-Sea Hydrothermal Vent Fluids. , 2010, , 251-283.		36
144	Microbial sulfate reduction within the Iheya North seafloor hydrothermal system constrained by quadruple sulfur isotopes. <i>Earth and Planetary Science Letters</i> , 2014, 398, 113-126.	4.4	35

#	ARTICLE	IF	CITATIONS
145	Hydrogen and carbon isotope systematics in hydrogenotrophic methanogenesis under H ₂ -limited and H ₂ -enriched conditions: implications for the origin of methane and its isotopic diagnosis. <i>Progress in Earth and Planetary Science</i> , 2016, 3, .	3.0	35
146	Diversity and methane oxidation of active epibiotic methanotrophs on live <i>Shinkaiia crosnieri</i> . <i>ISME Journal</i> , 2014, 8, 1020-1031.	9.8	34
147	<i>Aggregatilinea lenta</i> gen. nov., sp. nov., a slow-growing, facultatively anaerobic bacterium isolated from subseafloor sediment, and proposal of the new order <i>Aggregatilineales</i> ord. nov. within the class <i>Anaerolineae</i> of the phylum <i>Chloroflexi</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 1185-1194.	1.7	32
148	Nitrogen isotope chemostratigraphy across the Permian–Triassic boundary at Chaotian, Sichuan, South China. <i>Journal of Asian Earth Sciences</i> , 2014, 93, 113-128.	2.3	31
149	Nitrogen and Oxygen Isotope Effects of Ammonia Oxidation by Thermophilic Thaumarchaeota from a Geothermal Water Stream. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4492-4504.	3.1	31
150	<i>Desulfothermus okinawensis</i> sp. nov., a thermophilic and heterotrophic sulfate-reducing bacterium isolated from a deep-sea hydrothermal field. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 2360-2364.	1.7	30
151	H ₂ generation by experimental hydrothermal alteration of komatiitic glass at 300°C and 500 bars: A preliminary result from on-going experiment. <i>Geochemical Journal</i> , 2009, 43, e17-e22.	1.0	30
152	Seasonal change in microbial sulfur cycling in monomictic Lake Fukamiike, Japan. <i>Limnology and Oceanography</i> , 2012, 57, 974-988.	3.1	30
153	Endemicity of the cosmopolitan mesophilic chemolithoautotroph <i>Sulfurimonas</i> at deep-sea hydrothermal vents. <i>ISME Journal</i> , 2017, 11, 909-919.	9.8	30
154	WHATS-3: An Improved Flow-Through Multi-bottle Fluid Sampler for Deep-Sea Geofluid Research. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	30
155	3 The Isolation of Thermophiles from Deep-sea Hydrothermal Environments. <i>Methods in Microbiology</i> , 2006, 35, 55-91.	0.8	29
156	<i>Marinitoga okinawensis</i> sp. nov., a novel thermophilic and anaerobic heterotroph isolated from a deep-sea hydrothermal field, Southern Okinawa Trough. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 467-471.	1.7	29
157	Microbial Community Stratification Controlled by the Subseafloor Fluid Flow and Geothermal Gradient at the Iheya North Hydrothermal Field in the Mid-Okinawa Trough (Integrated Ocean Drilling) Tj ETQq1 1 Q.784314 egBT /Ov	1.7	29
158	Isotopic evidence for water-column denitrification and sulfate reduction at the end-Guadalupian (Middle Permian). <i>Global and Planetary Change</i> , 2014, 123, 110-120.	3.5	29
159	<i>Hydrogenivirga okinawensis</i> sp. nov., a thermophilic sulfur-oxidizing chemolithoautotroph isolated from a deep-sea hydrothermal field, Southern Okinawa Trough. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 676-681.	1.7	28
160	<i>Sulfurivirga caldicuralii</i> gen. nov., sp. nov., a novel microaerobic, thermophilic, thiosulfate-oxidizing chemolithoautotroph, isolated from a shallow marine hydrothermal system occurring in a coral reef, Japan. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 1921-1929.	1.7	27
161	Molecular investigations of the stalked barnacle <i>Vulcanolepas osheai</i> and the epibiotic bacteria from the Brothers Caldera, Kermadec Arc, New Zealand. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2009, 89, 727-733.	0.8	27
162	Phylogeography of hydrothermal vent stalked barnacles: a new species fills a gap in the Indian Ocean – dispersal corridor hypothesis. <i>Royal Society Open Science</i> , 2018, 5, 172408.	2.4	27

#	ARTICLE	IF	CITATIONS
163	Molecular analysis of deep subsurface Cretaceous rock indicates abundant Fe(III)- and So-reducing bacteria in a sulfate-rich environment. <i>Environmental Microbiology</i> , 2006, 8, 141-155.	3.8	26
164	Isotopic variation of molecular hydrogen in 20Å°â€“375Å°C hydrothermal fluids as detected by a new analytical method. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
165	Variability of seafloor viral abundance at the geographically and geologically distinct continental margins. <i>FEMS Microbiology Ecology</i> , 2014, 88, 60-68.	2.7	26
166	Hydrogen isotope systematics among H2â€“H2Oâ€“CH4 during the growth of the hydrogenotrophic methanogen <i>Methanothermobacter thermoautotrophicus</i> strain I ³ H. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 601-614.	3.9	26
167	Comparative Analysis of Microbial Communities in Iron-Dominated Flocculent Mats in Deep-Sea Hydrothermal Environments. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5741-5755.	3.1	26
168	The Nitrogen Cycle: A Large, Fast, and Mystifying Cycle. <i>Microbes and Environments</i> , 2019, 34, 223-225.	1.6	26
169	<i>Thermaerobacter nagasakiensis</i> sp. nov., a novel aerobic and extremely thermophilic marine bacterium. <i>Archives of Microbiology</i> , 2002, 177, 339-344.	2.2	25
170	<i>Salinarchaeum chitinilyticum</i> sp. nov., a chitin-degrading haloarchaeon isolated from commercial salt. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 2274-2278.	1.7	25
171	Purification and characterization of phosphoenolpyruvate carboxylase from the hyperthermophilic archaeon <i>Methanothermus sociabilis</i> . <i>FEBS Letters</i> , 1996, 392, 148-152.	2.8	24
172	Reactions between komatiite and CO2-rich seawater at 250 and 350Å°C, 500 bars: implications for hydrogen generation in the Hadean seafloor hydrothermal system. <i>Progress in Earth and Planetary Science</i> , 2016, 3, .	3.0	24
173	Thioester synthesis through geoelectrochemical CO2 fixation on Ni sulfides. <i>Communications Chemistry</i> , 2021, 4, .	4.5	24
174	Possible kilometer-scale hydrothermal circulation within the Iheya-North field, mid-Okinawa Trough, as inferred from heat flow data. <i>JAMSTEC Report of Research and Development</i> , 2011, 12, 1-12.	0.2	24
175	Extremely high alkaline protease from a deep-subsurface bacterium, <i>Alkaliphilus transvaalensis</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 71-80.	3.6	23
176	Cell-Specific Thioautotrophic Productivity of Epsilon-Proteobacterial Epibionts Associated with <i>Shinkaia crosnieri</i> . <i>PLoS ONE</i> , 2012, 7, e46282.	2.5	23
177	Nitrification-driven forms of nitrogen metabolism in microbial mat communities thriving along an ammonium-enriched subsurface geothermal stream. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 113, 152-173.	3.9	23
178	Quantitative Viral Community DNA Analysis Reveals the Dominance of Single-Stranded DNA Viruses in Offshore Upper Bathyal Sediment from Tohoku, Japan. <i>Frontiers in Microbiology</i> , 2018, 9, 75.	3.5	23
179	Genome sequence of a novel deep-sea vent epsilonproteobacterial phage provides new insight into the co-evolution of Epsilonproteobacteria and their phages. <i>Extremophiles</i> , 2013, 17, 405-419.	2.3	22
180	FTIR microspectroscopy of Ediacaran phosphatized microfossils from the Doushantuo Formation, Weng'an, South China. <i>Gondwana Research</i> , 2014, 25, 1120-1138.	6.0	22

#	ARTICLE	IF	CITATIONS
181	Geochemical characteristics of hydrothermal fluids at Hatoma Knoll in the southern Okinawa Trough. <i>Geochemical Journal</i> , 2016, 50, 493-525.	1.0	22
182	Domain-level identification and quantification of relative prokaryotic cell abundance in microbial communities by Micro-FTIR spectroscopy. <i>Environmental Microbiology Reports</i> , 2012, 4, 42-49.	2.4	21
183	An Improved Method for Extracting Viruses From Sediment: Detection of Far More Viruses in the Subseafloor Than Previously Reported. <i>Frontiers in Microbiology</i> , 2019, 10, 878.	3.5	21
184	Peptide Synthesis under the Alkaline Hydrothermal Conditions on Enceladus. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2559-2568.	2.7	20
185	Profile of Microbial Community Structure and Presence of Endolithic Microorganisms Inside a Deep-Sea Rock. <i>Geomicrobiology Journal</i> , 2002, 19, 535-552.	2.0	19
186	Limits of life and the biosphere: lessons from the detection of microorganisms in the deep sea and deep subsurface of the Earth. , 0, , 469-486.		19
187	Cool, alkaline serpentinite formation fluid regime with scarce microbial habitability and possible abiotic synthesis beneath the South Chamorro Seamount. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	19
188	Fluid transport and reaction processes within a serpentinite mud volcano: South Chamorro Seamount. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 413-428.	3.9	19
189	A New Fractionation and Recovery Method of Viral Genomes Based on Nucleic Acid Composition and Structure Using Tandem Column Chromatography. <i>Microbes and Environments</i> , 2015, 30, 199-203.	1.6	18
190	Defining boundaries for the distribution of microbial communities beneath the sediment-buried, hydrothermally active seafloor. <i>ISME Journal</i> , 2017, 11, 529-542.	9.8	18
191	<i>Thiomicrospira hydrogeniphila</i> sp. nov., an aerobic, hydrogen- and sulfur-oxidizing chemolithoautotroph isolated from a seawater tank containing a block of beef tallow. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3688-3693.	1.7	18
192	Cultivable microbial community in 2-km-deep, 20-million-year-old subseafloor coalbeds through ~1000 days anaerobic bioreactor cultivation. <i>Scientific Reports</i> , 2019, 9, 2305.	3.3	17
193	<i>Methanofervidicoccus abyssi</i> gen. nov., sp. nov., a hydrogenotrophic methanogen, isolated from a hydrothermal vent chimney in the Mid-Cayman Spreading Center, the Caribbean Sea. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 1225-1230.	1.7	17
194	Decrease of seawater CO ₂ concentration in the Late Archean: An implication from 2.6 Ga seafloor hydrothermal alteration. <i>Precambrian Research</i> , 2013, 236, 59-64.	2.7	16
195	Biogeochemical Implications of N ₂ O-Reducing Thermophilic Campylobacteria in Deep-Sea Vent Fields, and the Description of <i>Nitratiruptor labii</i> sp. nov.. <i>IScience</i> , 2020, 23, 101462.	4.1	16
196	Dual energy metabolism of the <i>Campylobacterota</i> endosymbiont in the chemosynthetic snail <i>Alviniconcha marisindica</i> . <i>ISME Journal</i> , 2020, 14, 1273-1289.	9.8	16
197	Genomic characterization of a temperate phage of the psychrotolerant deep-sea bacterium <i>Aurantimonas</i> sp.. <i>Extremophiles</i> , 2015, 19, 49-58.	2.3	15
198	Deep-Sea Hydrothermal Fields as Natural Power Plants. <i>ChemElectroChem</i> , 2018, 5, 2162-2166.	3.4	15

#	ARTICLE	IF	CITATIONS
199	The making of natural iron sulfide nanoparticles in a hot vent snail. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20376-20381.	7.1	15
200	Thiofractor thiocaminus gen. nov., sp. nov., a novel hydrogen-oxidizing, sulfur-reducing epsilonproteobacterium isolated from a deep-sea hydrothermal vent chimney in the Nikko Seamount field of the northern Mariana Arc. Archives of Microbiology, 2012, 194, 785-794.	2.2	14
201	Recycled Archean sulfur in the mantle wedge of the Mariana Forearc and microbial sulfate reduction within an extremely alkaline serpentine seamount. Earth and Planetary Science Letters, 2018, 491, 109-120.	4.4	14
202	Search for Primitive Methanopyrus Based on Genetic Distance Between Val- and Ile-tRNA Synthetases. Journal of Molecular Evolution, 2009, 69, 386-394.	1.8	13
203	Exclusive localization of carbonic anhydrase in bacteriocytes of the deep-sea clam <i>Calyptogena okutanii</i> with thioautotrophic symbiotic bacteria. Journal of Experimental Biology, 2013, 216, 4403-14.	1.7	13
204	A Simple and Efficient RNA Extraction Method from Deep-Sea Hydrothermal Vent Chimney Structures. Microbes and Environments, 2017, 32, 330-335.	1.6	13
205	A molecular view of archaeal diversity in marine and terrestrial hot water environments. FEMS Microbiology Ecology, 1999, 28, 177-188.	2.7	13
206	Spatial variation of subduction zone fluids during progressive subduction: Insights from Serpentinite Mud Volcanoes. Geochimica Et Cosmochimica Acta, 2022, 319, 118-134.	3.9	13
207	Identification and genomic analysis of temperate Pseudomonas bacteriophage PstS-1 from the Japan trench at a depth of 7000m. Research in Microbiology, 2015, 166, 668-676.	2.1	12
208	Limits of Terrestrial Life and Biosphere. , 2019, , 323-344.		12
209	Multispecies Populations of Methanotrophic <i>Methyloprofundus</i> and Cultivation of a Likely Dominant Species from the Iheya North Deep-Sea Hydrothermal Field. Applied and Environmental Microbiology, 2022, 88, AEM0075821.	3.1	12
210	A method for evaluating the host range of bacteriophages using phages fluorescently labeled with 5-ethynyl-2-deoxyuridine (EdU). Applied Microbiology and Biotechnology, 2012, 95, 777-788.	3.6	11
211	Origin of Short-Chain Organic Acids in Serpentinite Mud Volcanoes of the Mariana Convergent Margin. Frontiers in Microbiology, 2019, 10, 1729.	3.5	11
212	Acquired Thermotolerance and Temperature-Induced Protein Accumulation in the Extremely Thermophilic Bacterium Rhodothermus obamensis. Journal of Bacteriology, 1998, 180, 2770-2774.	2.2	11
213	Distribution of unusual archaea in subsurface biosphere. Geophysical Monograph Series, 2004, , 369-381.	0.1	10
214	Application of Synchrotron μ -XRF-XAFS to the Speciation of Fe on a Single Stalk in Bacteriogenic Iron Oxides (BIOS). Chemistry Letters, 2011, 40, 680-681.	1.3	10
215	Cultivation mutualism between a deep-sea vent galatheid crab and its chemosynthetic epibionts. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 127, 13-20.	1.4	10
216	Structural comparisons of phosphoenolpyruvate carboxykinases reveal the evolutionary trajectories of these phosphodiester energy conversion enzymes. Journal of Biological Chemistry, 2019, 294, 19269-19278.	3.4	10

#	ARTICLE	IF	CITATIONS
217	Stable Abiotic Production of Ammonia from Nitrate in Komatiite-Hosted Hydrothermal Systems in the Hadean and Archean Oceans. <i>Minerals</i> (Basel, Switzerland), 2021, 11, 321.	2.0	10
218	<i>Hydrogenimonas urashimensis</i> sp. nov., a hydrogen-oxidizing chemolithoautotroph isolated from a deep-sea hydrothermal vent in the Southern Mariana Trough. <i>Systematic and Applied Microbiology</i> , 2021, 44, 126170.	2.8	10
219	<i>Haloarcula mannanilytica</i> sp. nov., a galactomannan-degrading haloarchaeon isolated from commercial salt. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 6331-6337.	1.7	10
220	Flow-type apparatus for studying thermotolerance of hyperthermophiles under conditions simulating hydrothermal vent circulation. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 1085-1092.	1.4	9
221	Culture-dependent and independent analyses of subsurface microbial communities in oil-bearing strata of the Sagara oil reservoir. <i>Island Arc</i> , 2006, 15, 328-337.	1.1	9
222	Effects of Hemagglutination Activity in the Serum of a Deep-Sea Vent Endemic Crab, <i>Shinkaia Crosnieri</i> , on Non-Symbiotic and Symbiotic Bacteria. <i>Microbes and Environments</i> , 2015, 30, 228-234.	1.6	9
223	Presence of a Novel Methanogenic Archaeal Lineage in Anaerobic Digesters Inferred from <i>mcrA</i> and 16S rRNA Gene Phylogenetic Analyses. <i>Journal of Water and Environment Technology</i> , 2015, 13, 279-289.	0.7	9
224	Compositional and Functional Shifts in the Epibiotic Bacterial Community of <i>Shinkaia crosnieri</i> ; Baba & Williams (a Squat Lobster from Hydrothermal Vents) during Methane-Fed Rearing. <i>Microbes and Environments</i> , 2018, 33, 348-356.	1.6	9
225	Genomic Heterogeneity in a Natural Archaeal Population Suggests a Model of tRNA Gene Disruption. <i>PLoS ONE</i> , 2012, 7, e32504.	2.5	9
226	Chemical Nature of Hydrothermal Fluids Generated by Serpentinization and Carbonation of Komatiite: Implications for H ₂ -Rich Hydrothermal System and Ocean Chemistry in the Early Earth. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009827.	2.5	9
227	Biotic manganese oxidation coupled with methane oxidation using a continuous-flow bioreactor system under marine conditions. <i>Water Science and Technology</i> , 2017, 76, 1781-1795.	2.5	8
228	Planetary protection on international waters: An onboard protocol for capsule retrieval and biosafety control in sample return mission. <i>Advances in Space Research</i> , 2014, 53, 1135-1142.	2.6	7
229	Discovery and analysis of a novel type of the serine biosynthetic enzyme phosphoserine phosphatase in <i>Thermus thermophilus</i> . <i>FEBS Journal</i> , 2019, 286, 726-736.	4.7	7
230	Metatranscriptomics by <i>In Situ</i> RNA Stabilization Directly and Comprehensively Revealed Episymbiotic Microbial Communities of Deep-Sea Squat Lobsters. <i>MSystems</i> , 2020, 5, .	3.8	7
231	Comparative Investigation of Microbial Communities Associated with Hydrothermal Activities in the Okinawa Trough. , 2015, , 421-435.		7
232	Enrichment and Genomic Characterization of a N ₂ O-Reducing Chemolithoautotroph From a Deep-Sea Hydrothermal Vent. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 184.	4.1	6
233	Loss of genes related to Nucleotide Excision Repair (NER) and implications for reductive genome evolution in symbionts of deep-sea vesicomylid clams. <i>PLoS ONE</i> , 2017, 12, e0171274.	2.5	6
234	Endosymbiont population genomics sheds light on transmission mode, partner specificity, and stability of the scaly-foot snail holobiont. <i>ISME Journal</i> , 2022, 16, 2132-2143.	9.8	6

#	ARTICLE	IF	CITATIONS
235	Physical and Chemical Diversity of Seafloor Hydrothermal Systems and Presentation of Associated Chemolithoautotrophic Ecosystem. <i>Journal of Geography (Chigaku Zasshi)</i> , 2009, 118, 1083-1130.	0.3	5
236	The Family Nautiliaceae: The Genera <i>Caminibacter</i> , <i>Lebetimonas</i> , and <i>Nautilia</i> . , 2014, , 393-399.		5
237	Fourier transform infrared microspectroscopic characterization of Neoproterozoic organic microfossils from the Fifteenmile Group in Yukon, Canada. <i>Island Arc</i> , 2019, 28, e12310.	1.1	5
238	Complete genome sequence of <i>Pelolinea submarina</i> MO-CFX1T within the phylum Chloroflexi, isolated from subseafloor sediment. <i>Marine Genomics</i> , 2019, 46, 49-53.	1.1	5
239	Spatial distribution of organic functional groups in Ediacaran acritarchs from the Doushantuo Formation in South China as revealed by micro-FTIR spectroscopy. <i>Precambrian Research</i> , 2022, 373, 106628.	2.7	5
240	Extrinsic thermostabilization factors and thermodenaturation mechanisms for phosphoenolpyruvate carboxylase (PEPC) from an extremely thermophilic bacterium <i>Rhodothermus obamensis</i> . <i>Journal of Bioscience and Bioengineering</i> , 1997, 84, 291-299.	0.9	4
241	Development of a deep-sea mercury sensor using <i>in situ</i> anodic stripping voltammetry. <i>Geochemical Journal</i> , 2015, 49, 613-620.	1.0	4
242	Stable chlorine isotope ratio analysis of subnanomolar level methyl chloride by continuous-flow isotope ratio mass spectrometry. <i>Geochemical Journal</i> , 2013, 47, 469-473.	1.0	3
243	Virologists are <i>Symbionts</i> in Microbial Ecology. <i>Microbes and Environments</i> , 2016, 31, 367-368.	1.6	3
244	Methanogens in H ₂ -rich hydrothermal fluids resulting from phase separation in a sediment-starved, basalt-hosted hydrothermal system. <i>Chemical Geology</i> , 2016, 447, 208-218.	3.3	3
245	Recent Topics on Deep-Sea Microbial Communities in <i>Microbes and Environments</i> . <i>Microbes and Environments</i> , 2019, 34, 345-346.	1.6	3
246	The Family Hydrogenothermaceae. , 2014, , 689-699.		3
247	Uniaxial orientation of β -chitin nanofibres used as an organic framework in the scales of a hot vent snail. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	3.4	3
248	Deep Biosphere and Hydrothermal Activity: Potential Roles in the Co-evolution of Earth and Life.. <i>Journal of Geography (Chigaku Zasshi)</i> , 2003, 112, 234-249.	0.3	2
249	Trans-crustal Advections and In-situ Biogeochemical Processes of Global Sub-seafloor Aquifer: The Sub-seafloor <i>TAIGA</i> . <i>Journal of Geography (Chigaku Zasshi)</i> , 2009, 118, 1027-1036.	0.3	2
250	Life at Subseafloor Extremes. <i>Developments in Marine Geology</i> , 2014, 7, 149-174.	0.4	2
251	Experimental Simulations of Hypervelocity Impact Penetration of Asteroids Into the Terrestrial Ocean and Benthic Cratering. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006291.	3.6	2
252	Introduction of TAIGA Concept. , 2015, , 3-10.		1

#	ARTICLE	IF	CITATIONS
253	A new model for a hydrothermal circulation system and limit of the life. Journal of the Geological Society of Japan, 2017, 123, 237-250.	0.6	1
254	Post-drilling research of IODP Expedition 331: a test-bed for anthropogenic impacts and experiments on deep-sea hydrothermal activity and ecosystem. Journal of the Geological Society of Japan, 2017, 123, 225-235.	0.6	1
255	Post-drilling changes in fluid discharge pattern, mineral deposition, and fluid chemistry in the Iheya North hydrothermal field, Okinawa Trough. Geochemistry, Geophysics, Geosystems, 2013, 14, n/a-n/a.	2.5	1
256	Molecular Analysis and Engineering of Invisible Majority in Extreme Environments.. Microbes and Environments, 2000, 15, 45-57.	1.6	0
257	Genetics, Genomics, Evolution. , 2011, , 1099-1113.		0
258	Fragmentation of acetate-CoA ligase gives a clue to understand domain rearrangement history of NDP-forming acyl-CoA synthetase superfamily proteins. Bioscience, Biotechnology and Biochemistry, 2020, 84, 2045-2053.	1.3	0
259	Microbial Physiology in Deep Biosphere of the Earth. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 362-376.	0.0	0