Pierre E Galand

List of Publications by Year
in descending order

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84 papers	5,211 citations	87723 38 h-index	91712 69 g-index
90 all docs	90 docs citations	90 times ranked	6217 citing authors

#	Article	IF	Citations
1	Ecology of the rare microbial biosphere of the Arctic Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22427-22432.	3.3	488
2	Pole-to-pole biogeography of surface and deep marine bacterial communities. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17633-17638.	3.3	283
3	Structure of the rare archaeal biosphere and seasonal dynamics of active ecotypes in surface coastal waters. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6004-6009.	3.3	234
4	A strong link between marine microbial community composition and function challenges the idea of functional redundancy. ISME Journal, 2018, 12, 2470-2478.	4.4	180
5	Hydrography shapes bacterial biogeography of the deep Arctic Ocean. ISME Journal, 2010, 4, 564-576.	4.4	179
6	Pathways for Methanogenesis and Diversity of Methanogenic Archaea in Three Boreal Peatland Ecosystems. Applied and Environmental Microbiology, 2005, 71, 2195-2198.	1.4	171
7	Unique archaeal assemblages in the Arctic Ocean unveiled by massively parallel tag sequencing. ISME Journal, 2009, 3, 860-869.	4.4	163
8	Depth related diversity of methanogen Archaea in Finnish oligotrophic fen. FEMS Microbiology Ecology, 2002, 42, 441-449.	1.3	137
9	Macro- and microplastics affect cold-water corals growth, feeding and behaviour. Scientific Reports, 2018, 8, 15299.	1.6	136
10	Methanogen communities and Bacteria along an ecohydrological gradient in a northern raised bog complex. Environmental Microbiology, 2005, 7, 1547-1557.	1.8	134
11	Interâ€annual recurrence of archaeal assemblages in the coastal NW Mediterranean Sea (Blanes Bay) Tj ETQq1 1 0.784314 rgBT /Ove	1.6	131
12	High bicarbonate assimilation in the dark by Arctic bacteria. ISME Journal, 2010, 4, 1581-1590.	4.4	131
13	Vertical distribution of microbial communities in a perennially stratified Arctic lake with saline, anoxic bottom waters. Scientific Reports, 2012, 2, 604.	1.6	114
14	Variation of carbon isotope fractionation in hydrogenotrophic methanogenic microbial cultures and environmental samples at different energy status. Global Change Biology, 2005, 11, 2103-2113.	4.2	113
15	Rhythmicity of coastal marine picoeukaryotes, bacteria and archaea despite irregular environmental perturbations. ISME Journal, 2019, 13, 388-401.	4.4	105
16	Remarkably diverse and contrasting archaeal communities in a large arctic river and the coastal Arctic Ocean. Aquatic Microbial Ecology, 2006, 44, 115-126.	0.9	105
17	Vertical structure of archaeal communities and the distribution of ammonia monooxygenase A gene variants in two meromictic High Arctic lakes. Environmental Microbiology, 2009, 11, 687-699.	1.8	97
18	Detection of methanogenic Archaea in peat: comparison of PCR primers targeting the mcrA gene. Research in Microbiology, 2006, 157, 914-921.	1.0	95

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19	Seasonal dynamics of active SAR11 ecotypes in the oligotrophic Northwest Mediterranean Sea. ISME Journal, 2015, 9, 347-360.	4.4	93
20	Microsite-dependent changes in methanogenic populations in a boreal oligotrophic fen. Environmental Microbiology, 2003, 5, 1133-1143.	1.8	90
21	Microbial community diversity and heterotrophic production in a coastal Arctic ecosystem: A stamukhi lake and its source waters. Limnology and Oceanography, 2008, 53, 813-823.	1.6	88
22	Water masses and biogeography of picoeukaryote assemblages in a cold hydrographically complex system. Limnology and Oceanography, 2008, 53, 922-935.	1.6	86
23	Archaeal diversity and a gene for ammonia oxidation are coupled to oceanic circulation. Environmental Microbiology, 2009, 11, 971-980.	1.8	77
24	Stable carbon isotope fractionation during methanogenesis in three boreal peatland ecosystems. Biogeosciences, 2010, 7, 3893-3900.	1.3	77
25	Small Thaw Ponds: An Unaccounted Source of Methane in the Canadian High Arctic. PLoS ONE, 2013, 8, e78204.	1.1	68
26	Disturbance Increases Microbial Community Diversity and Production in Marine Sediments. Frontiers in Microbiology, 2016, 7, 1950.	1.5	66
27	River organic matter shapes microbial communities in the sediment of the RhÃ´ne prodelta. ISME Journal, 2014, 8, 2327-2338.	4.4	64
28	Heterogeneous archaeal communities in the particle-rich environment of an arctic shelf ecosystem. Journal of Marine Systems, 2008, 74, 774-782.	0.9	61
29	Long-term aquaria study suggests species-specific responses of two cold-water corals to macro-and microplastics exposure. Environmental Pollution, 2019, 253, 322-329.	3.7	61
30	Environmental vulnerability of the global ocean epipelagic plankton community interactome. Science Advances, 2021, 7, .	4.7	54
31	Sunken woods on the ocean floor provide diverse specialized habitats for microorganisms. FEMS Microbiology Ecology, 2012, 82, 616-628.	1.3	53
32	Patterns of bacteria-host associations suggest different ecological strategies between two reef building cold-water coral species. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 114, 12-22.	0.6	51
33	The Tara Pacific expeditionâ€"A pan-ecosystemic approach of the â€œ-omicsâ€•complexity of coral reef holobionts across the Pacific Ocean. PLoS Biology, 2019, 17, e3000483.	2.6	48
34	Removing environmental sources of variation to gain insight on symbionts vs. transient microbes in high and low microbial abundance sponges. Environmental Microbiology, 2013, 15, 3008-3019.	1.8	47
35	Methanogen communities along a primary succession transect of mire ecosystems. FEMS Microbiology Ecology, 2006, 55, 221-229.	1.3	46
36	Snapshot of a Bacterial Microbiome Shift during the Early Symptoms of a Massive Sponge Die-Off in the Western Mediterranean. Frontiers in Microbiology, 2016, 7, 752.	1.5	46

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37	Expanding Tara Oceans Protocols for Underway, Ecosystemic Sampling of the Ocean-Atmosphere Interface During Tara Pacific Expedition (2016â€“2018). Frontiers in Marine Science, 2019, 6, .	1.2	42
38	Archaeal amoA and ureC genes and their transcriptional activity in the Arctic Ocean. Scientific Reports, 2014, 4, 4661.	1.6	41
39	Melting glacier impacts community structure of <scp>B</scp>acteria, <scp>A</scp>rchaea and <scp>F</scp>ungi in a <scp>C</scp>hilean <scp>P</scp>atagonia fjord. Environmental Microbiology, 2015, 17, 3882-3897.	1.8	40
40	Sulfide production and consumption in degrading wood in the marine environment. Chemosphere, 2013, 90, 403-409.	4.2	38
41	Stable carbon isotope biogeochemistry of propionate and acetate in methanogenic soils and lake sediments. Organic Geochemistry, 2014, 73, 1-7.	0.9	37
42	Phylogenetic ecology of widespread uncultured clades of the Kingdom Euryarchaeota. Molecular Ecology, 2011, 20, 1988-1996.	2.0	36
43	Diversity and seasonal dynamics of airborne archaea. Biogeosciences, 2014, 11, 6067-6079.	1.3	36
44	Coral larval settlement preferences linked to crustose coralline algae with distinct chemical and microbial signatures. Scientific Reports, 2021, 11, 14610.	1.6	36
45	Methanogen Communities in a Drained Bog: Effect of Ash Fertilization. Microbial Ecology, 2005, 49, 209-217.	1.4	35
46	Temporal and spatial constraints on community assembly during microbial colonization of wood in seawater. ISME Journal, 2015, 9, 2657-2670.	4.4	35
47	Ecological succession leads to chemosynthesis in mats colonizing wood in sea water. ISME Journal, 2016, 10, 2246-2258.	4.4	32
48	Microbial Communities in Sunken Wood Are Structured by Wood-Boring Bivalves and Location in a Submarine Canyon. PLoS ONE, 2014, 9, e96248.	1.1	31
49	Temporal dynamics of active <scp>A</scp>rchaea in oxygenâ€depleted zones of two deep lakes. Environmental Microbiology Reports, 2015, 7, 321-329.	1.0	31
50	Picoplankton diversity in the Arctic Ocean and surrounding seas. Marine Biodiversity, 2011, 41, 5-12.	0.3	30
51	Bacteria alone establish the chemical basis of the wood-fall chemosynthetic ecosystem in the deep-sea. ISME Journal, 2018, 12, 367-379.	4.4	28
52	Genomic ecology of Marine Group II, the most common marine planktonic Archaea across the surface ocean. MicrobiologyOpen, 2019, 8, e00852.	1.2	27
53	Microbial communities associated with the degradation of oak wood in the Blanes submarine canyon and its adjacent open slope (NW Mediterranean). Progress in Oceanography, 2013, 118, 137-143.	1.5	26
54	Temporal Dynamics of Active Prokaryotic Nitrifiers and Archaeal Communities from River to Sea. Microbial Ecology, 2015, 70, 473-483.	1.4	26

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55	Phylogenetic and functional diversity of Bacteria and Archaea in a unique stratified lagoon, the Clipperton atoll (N Pacific). FEMS Microbiology Ecology, 2012, 79, 203-217.	1.3	25
56	Ecosystem productivity is associated with bacterial phylogenetic distance in surface marine waters. Molecular Ecology, 2015, 24, 5785-5795.	2.0	25
57	Symbiotic associations of the deepest recorded photosynthetic scleractinian coral (172 m depth). ISME Journal, 2021, 15, 1564-1568.	4.4	25
58	The Effect of Captivity on the Dynamics of Active Bacterial Communities Differs Between Two Deep-Sea Coral Species. Frontiers in Microbiology, 2018, 9, 2565.	1.5	23
59	The early conversion of deep-sea wood falls into chemosynthetic hotspots revealed by in situ monitoring. Scientific Reports, 2018, 8, 907.	1.6	22
60	Structure de la population de Pandalus borealis en Atlantique nord-est basÃ©e sur la variation des alloenzymes.. Aquatic Living Resources, 2000, 13, 121-128.	0.5	21
61	Abundance and diversity of picocyanobacteria in High Arctic lakes and fjords. Algological Studies (Stuttgart, Germany: 2007), 2008, 126, 209-227.	0.4	21
62	Disease Specific Bacterial Communities in a Coralline Algae of the Northwestern Mediterranean Sea: A Combined Culture Dependent and -Independent Approach. Frontiers in Microbiology, 2019, 10, 1850.	1.5	20
63	Diet shapes coldâ€water corals bacterial communities. Environmental Microbiology, 2020, 22, 354-368.	1.8	20
64	Planktonic prokaryote and protist communities in a submarine canyon system in the Ligurian Sea (NW) Tj ETQq0 0 0 rgBT /Overlock 10	1.5	19
65	Contrasting patterns of mortality in Polynesian coral reefs following the third global coral bleaching event in 2016. Coral Reefs, 2020, 39, 939-952.	0.9	19
66	Seasonal marine microorganisms change neighbours under contrasting environmental conditions. Environmental Microbiology, 2021, 23, 2592-2604.	1.8	18
67	Dense water plumes modulate richness and productivity of deep sea microbes. Environmental Microbiology, 2016, 18, 4537-4548.	1.8	17
68	Contrasting activity patterns determined by BrdU incorporation in bacterial ribotypes from the Arctic Ocean in winter. Frontiers in Microbiology, 2013, 4, 118.	1.5	14
69	Ultrarare marine microbes contribute to key sulphurâ€related ecosystem functions. Molecular Ecology, 2018, 27, 1494-1504.	2.0	14
70	Microbial biodiversity and biogeography. , 2008, , 213-230.		14
71	Pathobiomes Differ between Two Diseases Affecting Reef Building Coralline Algae. Frontiers in Microbiology, 2017, 8, 1686.	1.5	13
72	Local Variability in Microbiome Composition and Growth Suggests Habitat Preferences for Two Reef-Building Cold-Water Coral Species. Frontiers in Microbiology, 2020, 11, 275.	1.5	13

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73	Population structure ofChlamys islandicain the Northeast Atlantic â€" northern stocks compared with a southern relict population. Sarsia, 2000, 85, 183-188.	0.5	11
74	Distribution of greenhouse gases in hyper-arid and arid areas of northern Chile and the contribution of the high altitude wetland microbiome (Salar de Huasco, Chile). Antonie Van Leeuwenhoek, 2018, 111, 1421-1432.	0.7	11
75	Tara Pacific Expeditionâ€™s Atmospheric Measurements of Marine Aerosols across the Atlantic and Pacific Oceans: Overview and Preliminary Results. Bulletin of the American Meteorological Society, 2020, 101, E536-E554.	1.7	9
76	Seasonality of archaeal proteorhodopsin and associated Marine Group IIb ecotypes (Ca.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	4.4	9
77	Resilience of cold-water coral holobionts to thermal stress. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20212117.	1.2	9
78	Co-occurring nematodes and bacteria in submarine canyon sediments. PeerJ, 2018, 6, e5396.	0.9	8
79	Metal contaminations impact archaeal community composition, abundance and function in remote alpine lakes. Environmental Microbiology, 2018, 20, 2422-2437.	1.8	5
80	The environment drives microbial trait variability in aquatic habitats. Molecular Ecology, 2020, 29, 4605-4617.	2.0	5
81	Different Active Microbial Communities in Two Contrasted Subantarctic Fjords. Frontiers in Microbiology, 2021, 12, 620220.	1.5	2
82	Biogeography of Southern Ocean Active Prokaryotic Communities Over a Large Spatial Scale. Frontiers in Microbiology, 2022, 13, 862812.	1.5	2
83	Historical contingency impacts on community assembly and ecosystem function in chemosynthetic marine ecosystems. Scientific Reports, 2021, 11, 13994.	1.6	1
84	Ecology of Rare Microorganisms. , 2019, , 90-90.		0