Donato Giovannelli

List of Publications by Year
in descending order

51 papers	2,150 citations	361296 20 h-index	254106 43 g-index
64 all docs	64 docs citations	64 times ranked	2858 citing authors

#	Article	IF	Citations
1	Sunscreens Cause Coral Bleaching by Promoting Viral Infections. Environmental Health Perspectives, 2008, 116, 441-447.	2.8	426
2	Living at the Extremes: Extremophiles and the Limits of Life in a Planetary Context. Frontiers in Microbiology, 2019, 10, 780.	1.5	339
3	Metal availability and the expanding network of microbial metabolisms in the Archaean eon. Nature Geoscience, 2017, 10, 629-636.	5.4	116
4	Forearc carbon sink reduces long-term volatile recycling into the mantle. Nature, 2019, 568, 487-492.	13.7	97
5	Deep-sea hydrothermal vent Epsilonproteobacteria encode a conserved and widespread nitrate reduction pathway (Nap). ISME Journal, 2014, 8, 1510-1521.	4.4	86
6	Antarctic shallow water benthos in an area of recent rapid glacier retreat. Marine Ecology, 2015, 36, 716-733.	0.4	82
7	The Role of Microbial Electron Transfer in the Coevolution of the Biosphere and Geosphere. Annual Review of Microbiology, 2016, 70, 45-62.	2.9	82
8	Major Role of Surrounding Environment in Shaping Biofilm Community Composition on Marine Plastic Debris. Frontiers in Marine Science, 2020, 7, .	1.2	69
9	Sulfurovum riftiae sp. nov., a mesophilic, thiosulfate-oxidizing, nitrate-reducing chemolithoautotrophic epsilonproteobacterium isolated from the tube of the deep-sea hydrothermal vent polychaete Riftia pachyptila. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 2697-2701.	0.8	68
10	A Review of the Geochemistry and Microbiology of Marine Shallow-Water Hydrothermal Vents. , 2017, , .		63
11	Diversity and phylogenetic analyses of bacteria from a shallow-water hydrothermal vent in Milos island (Greece). Frontiers in Microbiology, 2013, 4, 184.	1.5	61
12	First step in the restoration of a highly degraded coral reef (Singapore) by in situ coral intensive farming. Aquaculture, 2011, 322-323, 191-200.	1.7	53
13	Subduction hides high-pressure sources of energy that may feed theÂdeep subsurface biosphere. Nature Communications, 2020, 11, 3880.	5.8	48
14	Eco-geochemical dynamics of a shallow-water hydrothermal vent system at Milos Island, Aegean Sea (Eastern Mediterranean). Chemical Geology, 2013, 356, 11-20.	1.4	41
15	Insight into the evolution of microbial metabolism from the deep-branching bacterium, Thermovibrio ammonificans. ELife, 2017, 6, .	2.8	40
16	Effect of tectonic processes on biosphereâ€“geosphere feedbacks across a convergent margin. Nature Geoscience, 2021, 14, 301-306.	5.4	32
17	Exploring Carbon Mineral Systems: Recent Advances in C Mineral Evolution, Mineral Ecology, and Network Analysis. Frontiers in Earth Science, 2020, 8, .	0.8	29
18	Diversity and Distribution of Prokaryotes within a Shallow-Water Pockmark Field. Frontiers in Microbiology, 2016, 7, 941.	1.5	27

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19	Large-Scale Distribution and Activity of Prokaryotes in Deep-Sea Surface Sediments of the Mediterranean Sea and the Adjacent Atlantic Ocean. PLoS ONE, 2013, 8, e72996.	1.1	25
20	Microbial biofilms associated with fluid chemistry and megafaunal colonization at post-eruptive deep-sea hydrothermal vents. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 121, 31-40.	0.6	25
21	Ecological Succession of Sulfur-Oxidizing Epsilon- and Gammaproteobacteria During Colonization of a Shallow-Water Gas Vent. Frontiers in Microbiology, 2018, 9, 2970.	1.5	25
22	Factors influencing prokaryotic community structure composition in sub-surface coastal sediments. Estuarine, Coastal and Shelf Science, 2012, 97, 141-148.	0.9	22
23	Exploring the Relationship between Macrofaunal Biodiversity and Ecosystem Functioning in the Deep Sea. Frontiers in Marine Science, 2017, 4, .	1.2	22
24	Hidden Concepts in the History and Philosophy of Origins-of-Life Studies: a Workshop Report. Origins of Life and Evolution of Biospheres, 2019, 49, 111-145.	0.8	19
25	Genomic and Physiological Characterization of Bacilli Isolated From Salt-Pans With Plant Growth Promoting Features. Frontiers in Microbiology, 2021, 12, 715678.	1.5	18
26	Draft genome sequence of Caminibacter mediatlanticus strain TB-2T, an epsilonproteobacterium isolated from a deep-sea hydrothermal vent. Standards in Genomic Sciences, 2011, 5, 135-143.	1.5	17
27	Galenea microaerophila gen. nov., sp. nov., a mesophilic, microaerophilic, chemosynthetic, thiosulfate-oxidizing bacterium isolated from a shallow-water hydrothermal vent. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 3060-3066.	0.8	17
28	Helium, inorganic and organic carbon isotopes of fluids and gases across the Costa Rica convergent margin. Scientific Data, 2019, 6, 284.	2.4	17
29	Bioremediation of high organic load lagoon sediments: Compost addition and priming effects. Chemosphere, 2013, 91, 99-104.	4.2	16
30	Elemental sulfur reduction in the deepâ€sea vent thermophile, Thermovibrio ammonificans. Environmental Microbiology, 2018, 20, 2301-2316.	1.8	16
31	Assessment of Spatio-Temporal Variability of Faecal Pollution along Coastal Waters during and after Rainfall Events. Water (Switzerland), 2022, 14, 502.	1.2	16
32	Metaproteogenomic Profiling of Chemosynthetic Microbial Biofilms Reveals Metabolic Flexibility During Colonization of a Shallow-Water Gas Vent. Frontiers in Microbiology, 2021, 12, 638300.	1.5	14
33	Abiotic and biotic processes that drive carboxylation and decarboxylation reactions. American Mineralogist, 2020, 105, 609-615.	0.9	13
34	High ³ He/ ⁴ He in central Panama reveals a distal connection to the GalÃ¡pagos plume. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
35	Complete genome sequence of Thermovibrio ammonificans HB-1T, a thermophilic, chemolithoautotrophic bacterium isolated from a deep-sea hydrothermal vent. Standards in Genomic Sciences, 2012, 7, 82-90.	1.5	11
36	Deep Carbon through Deep Time. , 2019, , 620-652.		10

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37	Let there be water: How hydration/dehydration reactions accompany key Earth and life processes#. American Mineralogist, 2020, 105, 1152-1160.	0.9	10
38	Introduction: Deep carbon cycle through five reactions. American Mineralogist, 2019, 104, 465-467.	0.9	9
39	Bacterioplankton Diversity and Distribution in Relation to Phytoplankton Community Structure in the Ross Sea Surface Waters. Frontiers in Microbiology, 2022, 13, 722900.	1.5	8
40	Trace elements and arsenic speciation in tissues of tube dwelling polychaetes from hydrothermal vent ecosystems (East Pacific Rise): An ecological role as antipredatory strategy?. Marine Environmental Research, 2017, 132, 1-13.	1.1	7
41	Aligning biochemistry to the interests of biology students using haloperoxidase to illustrate reactions of environmental and biomedical importance. Biochemistry and Molecular Biology Education, 2005, 33, 293-301.	0.5	6
42	High-quality draft genome sequence of Sedimenticola selenatireducens strain AK4OH1T, a gammaproteobacterium isolated from estuarine sediment. Standards in Genomic Sciences, 2016, 11, 66.	1.5	5
43	From extreme environments to human pathogens: an evolutionary journey. Biochemist, 2017, 39, 4-9.	0.2	3
44	Marine Shallow-Water Hydrothermal Vents: Microbiology. , 2019, , 353-363.		2
45	Microbial Influences on Subduction Zone Carbon Cycling. Eos, 2020, 101, .	0.1	2
46	Editorial: Deep Carbon in Earth: Early Career Scientist Contributions to the Deep Carbon Observatory. Frontiers in Earth Science, 2017, 5, .	0.8	0
47	Marine Shallow-Water Hydrothermal Vents: Geochemistry. , 2019, , 346-352.		0
48	On the Past, Present, and Future Role of Biology in NASAâ€™s Exploration of our Solar System. , 2021, 53, .		0
49	Linking plate tectonic settings and microbial functions on a global scale. , 2021, , .		0
50	Volatile characteristics of Central American geothermal fluids. , 2021, , .		0
51	Microbial diversity in the backarc hot springs of Argentina and its role in biogeochemical cycles. , 2021, , .		0