Alyson E Santoro

List of Publications by Year
in descending order

65 papers	6,695 citations	117625 34 h-index	128289 60 g-index
78 all docs	78 docs citations	78 times ranked	6547 citing authors

#	Article	IF	Citations
1	Ubiquity and diversity of ammonia-oxidizing archaea in water columns and sediments of the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14683-14688.	7.1	2,072
2	Isotopic Signature of N ₂ O Produced by Marine Ammonia-Oxidizing Archaea. Science, 2011, 333, 1282-1285.	12.6	369
3	Activity, abundance and diversity of nitrifying archaea and bacteria in the central California Current. Environmental Microbiology, 2010, 12, 1989-2006.	3.8	364
4	Shifts in the relative abundance of ammoniaâ€oxidizing bacteria and archaea across physicochemical gradients in a subterranean estuary. Environmental Microbiology, 2008, 10, 1068-1079.	3.8	333
5	Genomic and proteomic characterization of â€œ Candidatus Nitrosopelagicus brevisâ€: An ammonia-oxidizing archaeon from the open ocean. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1173-1178.	7.1	278
6	Diversity, ecology and evolution of Archaea. Nature Microbiology, 2020, 5, 887-900.	13.3	262
7	Diverse, uncultivated bacteria and archaea underlying the cycling of dissolved protein in the ocean. ISME Journal, 2016, 10, 2158-2173.	9.8	177
8	Beach Sands along the California Coast Are Diffuse Sources of Fecal Bacteria to Coastal Waters. Environmental Science & Technology, 2007, 41, 4515-4521.	10.0	175
9	Denitrifier Community Composition along a Nitrate and Salinity Gradient in a Coastal Aquifer. Applied and Environmental Microbiology, 2006, 72, 2102-2109.	3.1	170
10	Enrichment and characterization of ammonia-oxidizing archaea from the open ocean: phylogeny, physiology and stable isotope fractionation. ISME Journal, 2011, 5, 1796-1808.	9.8	167
11	Planktonic Marine Archaea. Annual Review of Marine Science, 2019, 11, 131-158.	11.6	129
12	Influence of ammonia oxidation rate on thaumarchaeal lipid composition and the TEX ₈₆ temperature proxy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7762-7767.	7.1	121
13	A distinct lineage of giant viruses brings a rhodopsin photosystem to unicellular marine predators. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20574-20583.	7.1	120
14	å’¸æº´æ·¡æº´ç•Œé¢å„¾å¾®ç”Ÿç‰©ä½œç”¨ä¸‹çš„Nå¾ªçŽ¯. Hydrogeology Journal, 2010, 18, 187-202.	2.1	116
15	Oxygen isotopic composition of nitrate and nitrite produced by nitrifying cocultures and natural marine assemblages. Limnology and Oceanography, 2012, 57, 1361-1375.	3.1	116
16	Ecophysiology of uncultivated marine euryarchaea is linked to particulate organic matter. ISME Journal, 2015, 9, 1747-1763.	9.8	94
17	Patterns of thaumarchaeal gene expression in culture and diverse marine environments. Environmental Microbiology, 2018, 20, 2112-2124.	3.8	92
18	Distinguishing between Microbial Habitats Unravels Ecological Complexity in Coral Microbiomes. MSystems, 2016, 1, .	3.8	90

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19	Measurements of nitrite production in and around the primary nitrite maximum in the central California Current. Biogeosciences, 2013, 10, 7395-7410.	3.3	87
20	Morphological Identification and Single-Cell Genomics of Marine Diplonemids. Current Biology, 2016, 26, 3053-3059.	3.9	83
21	Thaumarchaeal ecotype distributions across the equatorial Pacific Ocean and their potential roles in nitrification and sinking flux attenuation. Limnology and Oceanography, 2017, 62, 1984-2003.	3.1	83
22	Nitrogen cycling in the secondary nitrite maximum of the eastern tropical North Pacific off Costa Rica. Global Biogeochemical Cycles, 2015, 29, 2061-2081.	4.9	77
23	Interactions between fire and bark beetles in an old growth pine forest. Forest Ecology and Management, 2001, 144, 245-254.	3.2	74
24	Host-derived viral transporter protein for nitrogen uptake in infected marine phytoplankton. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7489-E7498.	7.1	74
25	Microbial metabolites in the marine carbon cycle. Nature Microbiology, 2022, 7, 508-523.	13.3	71
26	Metabolic versatility of the nitrite-oxidizing bacterium Nitrospira marina and its proteomic response to oxygen-limited conditions. ISME Journal, 2021, 15, 1025-1039.	9.8	62
27	Global reconstruction reduces the uncertainty of oceanic nitrous oxide emissions and reveals a vigorous seasonal cycle. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11954-11960.	7.1	56
28	Identifying protist consumers of photosynthetic picoeukaryotes in the surface ocean using stable isotope probing. Environmental Microbiology, 2018, 20, 815-827.	3.8	51
29	Microbial community composition and nitrogen availability influence DOC remineralization in the South Pacific Gyre. Marine Chemistry, 2015, 177, 325-334.	2.3	50
30	Heterotrophic Thaumarchaea with Small Genomes Are Widespread in the Dark Ocean. MSystems, 2020, 5, .	3.8	50
31	Frequent occurrence of the human-specific Bacteroides fecal marker at an open coast marine beach: relationship to waves, tides and traditional indicators. Environmental Microbiology, 2007, 9, 2038-2049.	3.8	49
32	The do-it-all nitrifier. Science, 2016, 351, 342-343.	12.6	45
33	Unexpected mitochondrial genome diversity revealed by targeted single-cell genomics of heterotrophic flagellated protists. Nature Microbiology, 2020, 5, 154-165.	13.3	44
34	An intercomparison of oceanic methane and nitrous oxide measurements. Biogeosciences, 2018, 15, 5891-5907.	3.3	42
35	Abundant nitrite-oxidizing metalloenzymes in the mesopelagic zone of the tropical Pacific Ocean. Nature Geoscience, 2020, 13, 355-362.	12.9	41
36	Single cell genomics of uncultured marine alveolates shows paraphyly of basal dinoflagellates. ISME Journal, 2018, 12, 304-308.	9.8	40

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37	Flow effects on benthic grazing on phytoplankton by a Caribbean reef. Limnology and Oceanography, 2010, 55, 1881-1892.	3.1	31
38	Assessment of Nitrogen and Oxygen Isotopic Fractionation During Nitrification and Its Expression in the Marine Environment. Methods in Enzymology, 2011, 486, 253-280.	1.0	31
39	Multifaceted impacts of the stony coral Porites astreoides on picoplankton abundance and community composition. Limnology and Oceanography, 2017, 62, 217-234.	3.1	31
40	Microbial signatures of protected and impacted Northern Caribbean reefs: changes from Cuba to the Florida Keys. Environmental Microbiology, 2020, 22, 499-519.	3.8	25
41	Nitrification and Nitrous Oxide Production in the Offshore Waters of the Eastern Tropical South Pacific. Global Biogeochemical Cycles, 2021, 35, e2020GB006716.	4.9	25
42	Coupled physical, chemical, and microbiological measurements suggest a connection between internal waves and surf zone water quality in the Southern California Bight. Continental Shelf Research, 2012, 34, 64-78.	1.8	22
43	Targeted metagenomic recovery of four divergent viruses reveals shared and distinctive characteristics of giant viruses of marine eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190086.	4.0	22
44	Observations of Variable Ammonia Oxidation and Nitrous Oxide Flux in a Eutrophic Estuary. Estuaries and Coasts, 2019, 42, 33-44.	2.2	19
45	Controlled sampling of ribosomally active protistan diversity in sediment-surface layers identifies putative players in the marine carbon sink. ISME Journal, 2020, 14, 984-998.	9.8	19
46	Cellular maintenance processes that potentially underpin the survival of subseafloor fungi over geological timescales. Estuarine, Coastal and Shelf Science, 2015, 164, A1-A9.	2.1	17
47	A Revised Taxonomy of Diplonemids Including the Eupelagonemidae n. fam. and a Type Species, Eupelagonema oceanica n. gen. & sp.. Journal of Eukaryotic Microbiology, 2019, 66, 519-524.	1.7	17
48	The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. Scientific Data, 2020, 7, 194.	5.3	13
49	Nitrification and nitrous oxide dynamics in the Southern California Bight. Limnology and Oceanography, 2021, 66, 1099-1112.	3.1	13
50	Headwater Stream Microbial Diversity and Function across Agricultural and Urban Land Use Gradients. Applied and Environmental Microbiology, 2020, 86, .	3.1	12
51	Contrasting spring and summer phytoplankton dynamics in the nearshore Southern California Bight. Limnology and Oceanography, 2010, 55, 264-278.	3.1	11
52	Single-Cell Transcriptomics of Abedinium Reveals a New Early-Branching Dinoflagellate Lineage. Genome Biology and Evolution, 2020, 12, 2417-2428.	2.5	11
53	Contributions of single-cell genomics to our understanding of planktonic marine archaea. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190096.	4.0	9
54	Crystal ball: the microbial map of the ocean. Environmental Microbiology Reports, 2019, 11, 35-37.	2.4	9

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55	Environmental controls on estuarine nitrifying communities along a salinity gradient. Aquatic Microbial Ecology, 2017, 80, 167-180.	1.8	8
56	Microbial communities can predict the ecological condition of headwater streams. PLoS ONE, 2020, 15, e0236932.	2.5	7
57	Phylogeny, Evidence for a Cryptic Plastid, and Distribution of Chytriodinium Parasites (Dinophyceae) Infecting Copepods. Journal of Eukaryotic Microbiology, 2019, 66, 574-581.	1.7	2
58	Complete Genome Sequences of Two Phylogenetically Distinct Nitrospina Strains Isolated from the Atlantic and Pacific Oceans. Microbiology Resource Announcements, 2022, 11, e0010022.	0.6	2
59	Exaggerated trans-membrane charge of ammonium transporters in nutrient-poor marine environments. Open Biology, 2022, 12, .	3.6	1
60	Microbial communities can predict the ecological condition of headwater streams. , 2020, 15, e0236932.		0
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