

Alyson E Santoro

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

4,764

citations

27

h-index

69

g-index

78

ext. papers

5,973

ext. citations

8.4

avg, IF

5.83

L-index

#	Paper	IF	Citations
68	Ubiquity and diversity of ammonia-oxidizing archaea in water columns and sediments of the ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 14683-8	11.5	1695
67	Isotopic signature of N ₂ O produced by marine ammonia-oxidizing archaea. <i>Science</i> , 2011 , 333, 1282-5	33.3	305
66	Activity, abundance and diversity of nitrifying archaea and bacteria in the central California Current. <i>Environmental Microbiology</i> , 2010 , 12, 1989-2006	5.2	288
65	Shifts in the relative abundance of ammonia-oxidizing bacteria and archaea across physicochemical gradients in a subterranean estuary. <i>Environmental Microbiology</i> , 2008 , 10, 1068-79	5.2	278
64	Genomic and proteomic characterization of "Candidatus Nitrosopelagicus brevis": an ammonia-oxidizing archaeon from the open ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1173-8	11.5	170
63	Beach sands along the California coast are diffuse sources of fecal bacteria to coastal waters. <i>Environmental Science & Technology</i> , 2007 , 41, 4515-21	10.3	162
62	Denitrifier community composition along a nitrate and salinity gradient in a coastal aquifer. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 2102-9	4.8	153
61	Enrichment and characterization of ammonia-oxidizing archaea from the open ocean: phylogeny, physiology and stable isotope fractionation. <i>ISME Journal</i> , 2011 , 5, 1796-808	11.9	127
60	Diverse, uncultivated bacteria and archaea underlying the cycling of dissolved protein in the ocean. <i>ISME Journal</i> , 2016 , 10, 2158-73	11.9	94
59	Diversity, ecology and evolution of Archaea. <i>Nature Microbiology</i> , 2020 , 5, 887-900	26.6	92
58	Microbial nitrogen cycling at the saltwater-freshwater interface. <i>Hydrogeology Journal</i> , 2010 , 18, 187-202	3.1	89
57	Oxygen isotopic composition of nitrate and nitrite produced by nitrifying cocultures and natural marine assemblages. <i>Limnology and Oceanography</i> , 2012 , 57, 1361-1375	4.8	87
56	Influence of ammonia oxidation rate on thaumarchaeal lipid composition and the TEX ₈₆ temperature proxy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7762-7	11.5	87
55	Ecophysiology of uncultivated marine euryarchaea is linked to particulate organic matter. <i>ISME Journal</i> , 2015 , 9, 1747-63	11.9	77
54	Planktonic Marine Archaea. <i>Annual Review of Marine Science</i> , 2019 , 11, 131-158	15.4	73
53	A distinct lineage of giant viruses brings a rhodopsin photosystem to unicellular marine predators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20574-20583	11.5	68
52	Morphological Identification and Single-Cell Genomics of Marine Diplonemids. <i>Current Biology</i> , 2016 , 26, 3053-3059	6.3	68

51	Measurements of nitrite production in and around the primary nitrite maximum in the central California Current. <i>Biogeosciences</i> , 2013 , 10, 7395-7410	4.6	62
50	Interactions between fire and bark beetles in an old growth pine forest. <i>Forest Ecology and Management</i> , 2001 , 144, 245-254	3.9	61
49	Distinguishing between Microbial Habitats Unravels Ecological Complexity in Coral Microbiomes. <i>MSystems</i> , 2016 , 1,	7.6	53
48	Nitrogen cycling in the secondary nitrite maximum of the eastern tropical North Pacific off Costa Rica. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 2061-2081	5.9	49
47	Patterns of thaumarchaeal gene expression in culture and diverse marine environments. <i>Environmental Microbiology</i> , 2018 , 20, 2112-2124	5.2	48
46	Host-derived viral transporter protein for nitrogen uptake in infected marine phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7489-E7498	11.5	44
45	Thaumarchaeal ecotype distributions across the equatorial Pacific Ocean and their potential roles in nitrification and sinking flux attenuation. <i>Limnology and Oceanography</i> , 2017 , 62, 1984-2003	4.8	43
44	Frequent occurrence of the human-specific <i>Bacteroides</i> fecal marker at an open coast marine beach: relationship to waves, tides and traditional indicators. <i>Environmental Microbiology</i> , 2007 , 9, 2038-49	5.2	42
43	MICROBIOLOGY. The do-it-all nitrifier. <i>Science</i> , 2016 , 351, 342-3	33.3	32
42	Microbial community composition and nitrogen availability influence DOC remineralization in the South Pacific Gyre. <i>Marine Chemistry</i> , 2015 , 177, 325-334	3.7	28
41	Flow effects on benthic grazing on phytoplankton by a Caribbean reef. <i>Limnology and Oceanography</i> , 2010 , 55, 1881-1892	4.8	25
40	An intercomparison of oceanic methane and nitrous oxide measurements. <i>Biogeosciences</i> , 2018 , 15, 5891-5907	1.5	25
39	Heterotrophic Thaumarchaea with Small Genomes Are Widespread in the Dark Ocean. <i>MSystems</i> , 2020 , 5,	7.6	24
38	Abundant nitrite-oxidizing metalloenzymes in the mesopelagic zone of the tropical Pacific Ocean. <i>Nature Geoscience</i> , 2020 , 13, 355-362	18.3	23
37	Unexpected mitochondrial genome diversity revealed by targeted single-cell genomics of heterotrophic flagellated protists. <i>Nature Microbiology</i> , 2020 , 5, 154-165	26.6	23
36	Identifying protist consumers of photosynthetic picoeukaryotes in the surface ocean using stable isotope probing. <i>Environmental Microbiology</i> , 2018 , 20, 815-827	5.2	23
35	Single cell genomics of uncultured marine alveolates shows paraphyly of basal dinoflagellates. <i>ISME Journal</i> , 2018 , 12, 304-308	11.9	22
34	Assessment of nitrogen and oxygen isotopic fractionation during nitrification and its expression in the marine environment. <i>Methods in Enzymology</i> , 2011 , 486, 253-80	1.7	22

33	Coupled physical, chemical, and microbiological measurements suggest a connection between internal waves and surf zone water quality in the Southern California Bight. <i>Continental Shelf Research</i> , 2012 , 34, 64-78	2.4	21
32	Multifaceted impacts of the stony coral <i>Porites astreoides</i> on picoplankton abundance and community composition. <i>Limnology and Oceanography</i> , 2017 , 62, 217-234	4.8	20
31	Global reconstruction reduces the uncertainty of oceanic nitrous oxide emissions and reveals a vigorous seasonal cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11954-11960	11.5	18
30	Metabolic versatility of the nitrite-oxidizing bacterium <i>Nitrospira marina</i> and its proteomic response to oxygen-limited conditions. <i>ISME Journal</i> , 2021 , 15, 1025-1039	11.9	17
29	Targeted metagenomic recovery of four divergent viruses reveals shared and distinctive characteristics of giant viruses of marine eukaryotes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20190086	5.8	14
28	A Revised Taxonomy of Diplonemids Including the Eupelagonemidae n. fam. and a Type Species, <i>Eupelagonema oceanica</i> n. gen. & sp. <i>Journal of Eukaryotic Microbiology</i> , 2019 , 66, 519-524	3.6	13
27	Cellular maintenance processes that potentially underpin the survival of subseafloor fungi over geological timescales. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 164, A1-A9	2.9	13
26	Controlled sampling of ribosomally active protistan diversity in sediment-surface layers identifies putative players in the marine carbon sink. <i>ISME Journal</i> , 2020 , 14, 984-998	11.9	10
25	Microbial signatures of protected and impacted Northern Caribbean reefs: changes from Cuba to the Florida Keys. <i>Environmental Microbiology</i> , 2020 , 22, 499-519	5.2	9
24	Observations of Variable Ammonia Oxidation and Nitrous Oxide Flux in a Eutrophic Estuary. <i>Estuaries and Coasts</i> , 2019 , 42, 33-44	2.8	9
23	Contrasting spring and summer phytoplankton dynamics in the nearshore Southern California Bight. <i>Limnology and Oceanography</i> , 2010 , 55, 264-278	4.8	8
22	Nitrification and Nitrous Oxide Production in the Offshore Waters of the Eastern Tropical South Pacific. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006716	5.9	8
21	Single-Cell Transcriptomics of <i>Abedinium</i> Reveals a New Early-Branching Dinoflagellate Lineage. <i>Genome Biology and Evolution</i> , 2020 , 12, 2417-2428	3.9	6
20	The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. <i>Scientific Data</i> , 2020 , 7, 194	8.2	5
19	Nitrification and nitrous oxide dynamics in the Southern California Bight. <i>Limnology and Oceanography</i> , 2021 , 66, 1099-1112	4.8	5
18	Contributions of single-cell genomics to our understanding of planktonic marine archaea. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20190096	5.8	4
17	Headwater Stream Microbial Diversity and Function across Agricultural and Urban Land Use Gradients. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	4
16	Environmental controls on estuarine nitrifying communities along a salinity gradient. <i>Aquatic Microbial Ecology</i> , 2017 , 80, 167-180	1.1	4

15	Microbial communities can predict the ecological condition of headwater streams. <i>PLoS ONE</i> , 2020 , 15, e0236932	3.7	4
14	Crystal ball: the microbial map of the ocean. <i>Environmental Microbiology Reports</i> , 2019 , 11, 35-37	3.7	3
13	Patterns of thaumarchaeal gene expression in culture and diverse marine environments		2
12	Microbial metabolites in the marine carbon cycle.. <i>Nature Microbiology</i> , 2022 , 7, 508-523	26.6	2
11	Heterotrophic Thaumarchaeota with ultrasmall genomes are widespread in the ocean		1
10	Metabolic versatility of the nitrite-oxidizing bacterium <i>Nitrospira marina</i> and its proteomic response to oxygen-limited conditions		1
9	Phylogeny, Evidence for a Cryptic Plastid, and Distribution of Chytridinium Parasites (Dinophyceae) Infecting Copepods. <i>Journal of Eukaryotic Microbiology</i> , 2019 , 66, 574-581	3.6	0
8	Complete Genome Sequences of Two Phylogenetically Distinct Strains Isolated from the Atlantic and Pacific Oceans.. <i>Microbiology Resource Announcements</i> , 2022 , 11, e0010022	1.3	0
7	Candidatus Nitrosopelagicus1-13		
6	Microbial communities can predict the ecological condition of headwater streams 2020 , 15, e0236932		
5	Microbial communities can predict the ecological condition of headwater streams 2020 , 15, e0236932		
4	Microbial communities can predict the ecological condition of headwater streams 2020 , 15, e0236932		
3	Microbial communities can predict the ecological condition of headwater streams 2020 , 15, e0236932		
2	Microbial communities can predict the ecological condition of headwater streams 2020 , 15, e0236932		
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