Patricia L Yager

List of Publications by Year
in descending order

76 papers	5,292 citations	76294 40 h-index	88593 70 g-index
77 all docs	77 docs citations	77 times ranked	6704 citing authors

#	Article	IF	Citations
1	Degradation of terrestrially derived macromolecules in the Amazon River. Nature Geoscience, 2013, 6, 530-533.	5.4	300
2	Sizing up metatranscriptomics. ISME Journal, 2013, 7, 237-243.	4.4	298
3	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
4	Amazon River enhances diazotrophy and carbon sequestration in the tropical North Atlantic Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10460-10465.	3.3	273
5	Role for urea in nitrification by polar marine Archaea. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17989-17994.	3.3	253
6	An extensive reef system at the Amazon River mouth. Science Advances, 2016, 2, e1501252.	4.7	235
7	Molecular-level changes of dissolved organic matter along the Amazon River-to-ocean continuum. Marine Chemistry, 2015, 177, 218-231.	0.9	206
8	Fate of the Amazon River dissolved organic matter in the tropical Atlantic Ocean. Global Biogeochemical Cycles, 2015, 29, 677-690.	1.9	148
9	The pathways and properties of the Amazon River Plume in the tropical North Atlantic Ocean. Journal of Geophysical Research: Oceans, 2013, 118, 6894-6913.	1.0	128
10	Microspatial gene expression patterns in the Amazon River Plume. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11085-11090.	3.3	128
11	Ocean biogeochemistry modeled with emergent trait-based genomics. Science, 2017, 358, 1149-1154.	6.0	122
12	Dynamic bacterial and viral response to an algal bloom at subzero temperatures. Limnology and Oceanography, 2001, 46, 790-801.	1.6	121
13	How much, how fast?: A science review and outlook for research on the instability of Antarctica's Thwaites Glacier in the 21st century. Global and Planetary Change, 2017, 153, 16-34.	1.6	118
14	The Northeast Water Polynya as an atmospheric CO2sink: A seasonal rectification hypothesis. Journal of Geophysical Research, 1995, 100, 4389.	3.3	117
15	ASPIRE: The Amundsen Sea Polynya International Research Expedition. Oceanography, 2012, 25, 40-53.	0.5	116
16	Enhanced deposition to pits: A local food source for benthos. Journal of Marine Research, 1993, 51, 209-236.	0.3	106
17	Influence of the Amazon River discharge on the biogeography of phytoplankton communities in the western tropical north Atlantic. Progress in Oceanography, 2014, 120, 29-40.	1.5	95
18	Seasonal variations in the Amazon plumeâ€related atmospheric carbon sink. Global Biogeochemical Cycles, 2007, 21, .	1.9	92

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19	Phaeocystis antarctica blooms strongly influence bacterial community structures in the Amundsen Sea polynya. Frontiers in Microbiology, 2014, 5, 646.	1.5	91
20	Oceanic transport of surface meltwater from the southern Greenland ice sheet. Nature Geoscience, 2016, 9, 528-532.	5.4	85
21	Microbial Community Response to Terrestrially Derived Dissolved Organic Matter in the Coastal Arctic. Frontiers in Microbiology, 2017, 8, 1018.	1.5	82
22	Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. Geophysical Research Letters, 2017, 44, 6278-6285.	1.5	82
23	A novel molecular approach for tracing terrigenous dissolved organic matter into the deep ocean. Global Biogeochemical Cycles, 2016, 30, 689-699.	1.9	81
24	Bacterial Biogeography across the Amazon River-Ocean Continuum. Frontiers in Microbiology, 2017, 8, 882.	1.5	75
25	Non-Redfield carbon and nitrogen cycling in the Arctic: Effects of ecosystem structure and dynamics. Journal of Geophysical Research, 1999, 104, 3185-3199.	3.3	73
26	The compositional evolution of dissolved and particulate organic matter along the lower Amazon Riverâ€"Ã“bidos to the ocean. Marine Chemistry, 2015, 177, 244-256.	0.9	73
27	Antarctic sea ice carbon dioxide system and controls. Journal of Geophysical Research, 2011, 116, .	3.3	64
28	Physical and biological contributions to the western tropical North Atlantic Ocean carbon sink formed by the Amazon River plume. Journal of Geophysical Research, 2006, 111, .	3.3	61
29	Role of biogenic silica in the removal of iron from the Antarctic seas. Nature Communications, 2013, 4, 1981.	5.8	61
30	Dynamics of dissolved iron and other bioactive trace metals (Mn, Ni, Cu, Zn) in the Amundsen Sea Polynya, Antarctica. Elementa, 2015, 3, .	1.1	60
31	Expression patterns of elemental cycling genes in the Amazon River Plume. ISME Journal, 2017, 11, 1852-1864.	4.4	54
32	Impact of diatomâ€diazotroph associations on carbon export in the Amazon River plume. Geophysical Research Letters, 2012, 39, .	1.5	53
33	Carbon distributions and fluxes in the North Water, 1998 and 1999. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 5151-5170.	0.6	51
34	Pelagic microbial activity in an arctic polynya: Testing for temperature and substrate interactions using a kinetic approach. Limnology and Oceanography, 1999, 44, 1882-1893.	1.6	50
35	Particle flux on the continental shelf in the Amundsen Sea Polynya and Western Antarctic Peninsula. Elementa, 2015, 3, .	1.1	49
36	Sediment community structure around a whale skeleton in the deep Northeast Pacific: Macrofaunal, microbial and bioturbation effects. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 335-364.	0.6	48

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37	Freshwater distributions and water mass structure in the Amundsen Sea Polynya region, Antarctica. Elementa, 2015, 3, .	1.1	48
38	Metagenomic and metatranscriptomic inventories of the lower Amazon River, May 2011. Microbiome, 2015, 3, 39.	4.9	47
39	Effect of temperature on rates of ammonium uptake and nitrification in the western coastal Arctic during winter, spring, and summer. Global Biogeochemical Cycles, 2014, 28, 1455-1466.	1.9	44
40	Pathways and supply of dissolved iron in the Amundsen Sea (Antarctica). Journal of Geophysical Research: Oceans, 2017, 122, 7135-7162.	1.0	42
41	Fe availability drives phytoplankton photosynthesis rates during spring bloom in the Amundsen Sea Polynya, Antarctica. Elementa, 2015, 3, .	1.1	42
42	Seasonal and spatial variability of dissolved organic matter composition in the lower Amazon River. Biogeochemistry, 2016, 131, 281-302.	1.7	40
43	Illustrating the importance of particulate organic matter to pelagic microbial abundance and community structureÂ—an Arctic case study. Aquatic Microbial Ecology, 2005, 40, 217-227.	0.9	40
44	Natural Bacterial Assemblages in Deep-Sea Sediments: Towards a Global View. , 1992, , 11-27.		38
45	A carbon budget for the Amundsen Sea Polynya, Antarctica: Estimating net community production and export in a highly productive polar ecosystem. Elementa, 2016, 4, .	1.1	38
46	Exploring the Potential Impact of Greenland Meltwater on Stratification, Photosynthetically Active Radiation, and Primary Production in the Labrador Sea. Journal of Geophysical Research: Oceans, 2018, 123, 2570-2591.	1.0	37
47	Seasonal sea ice changes in the Amundsen Sea, Antarctica, over the period of 1979â€“2014. Elementa, 2015, 3, .	1.1	35
48	Amazon River influence on nitrogen fixation and export production in the western tropical North Atlantic. Limnology and Oceanography, 2017, 62, 618-631.	1.6	34
49	Carbon to nitrogen (C:N) stoichiometry of the springâ€“summer phytoplankton bloom in the North Water Polynya (NOW). Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 2301-2314.	0.6	30
50	Modeling the Seasonal Cycle of Iron and Carbon Fluxes in the Amundsen Sea Polynya, Antarctica. Journal of Geophysical Research: Oceans, 2019, 124, 1544-1565.	1.0	30
51	In situ phytoplankton distributions in the Amundsen Sea Polynya measured by autonomous gliders. Elementa, 2015, 3, .	1.1	30
52	Spatial variability of surface pCO2 and air-sea CO2 flux in the Amundsen Sea Polynya, Antarctica. Elementa, 2014, 3, .	1.1	26
53	The Influence of Riverine Nutrients in Niche Partitioning of Phytoplankton Communitiesâ€“A Contrast Between the Amazon River Plume and the Changjiang (Yangtze) River Diluted Water of the East China Sea. Frontiers in Marine Science, 2018, 5, .	1.2	25
54	Pelagic community respiration on the continental shelf off Georgia, USA. Biogeochemistry, 2010, 98, 101-113.	1.7	23

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55	Pelagic microbial heterotrophy in response to a highly productive bloom of Phaeocystis antarctica in the Amundsen Sea Polynya, Antarctica. Elementa, 2016, 4, .	1.1	22
56	Carbon and biogenic silica export influenced by the Amazon River Plume: Patterns of remineralization in deep-sea sediments. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 85, 124-137.	0.6	21
57	Mixing of water masses caused by a drifting iceberg affects bacterial activity, community composition and substrate utilization capability in the Southern Ocean. Environmental Microbiology, 2017, 19, 2453-2467.	1.8	21
58	Piecewise Structural Equation Model (SEM) Disentangles the Environmental Conditions Favoring Diatom Diazotroph Associations (DDAs) in the Western Tropical North Atlantic (WTNA). Frontiers in Microbiology, 2017, 8, 810.	1.5	21
59	Seasonal nitrogen uptake and regeneration in the western coastal Arctic. Limnology and Oceanography, 2017, 62, 2463-2479.	1.6	20
60	Summer comes to the Southern Ocean: how phytoplankton shape bacterioplankton communities far into the deep dark sea. Ecosphere, 2019, 10, e02641.	1.0	20
61	Patterns of Transcript Abundance of Eukaryotic Biogeochemically-Relevant Genes in the Amazon River Plume. PLoS ONE, 2016, 11, e0160929.	1.1	17
62	Evidence for psychrophiles outnumbering psychrotolerant marine bacteria in the springtime coastal Arctic. Limnology and Oceanography, 2006, 51, 1205-1210.	1.6	16
63	Modeling Iron and Light Controls on the Summer Phaeocystis antarctica Bloom in the Amundsen Sea Polynya. Global Biogeochemical Cycles, 2019, 33, 570-596.	1.9	16
64	Meso- and macro-zooplankton community structure of the Amundsen Sea Polynya, Antarctica (Summer 2010â€“2011). Elementa, 2015, 3, .	1.1	16
65	Climate research priorities for policy-makers, practitioners, and scientists in Georgia, USA. Environmental Management, 2018, 62, 190-209.	1.2	15
66	Meltwaterâ€Enhanced Nutrient Export From Greenland's Glacial Fjords: A Sensitivity Analysis. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016185.	1.0	15
67	Growing industrialization and poor conservation planning challenge natural resources' management in the Amazon Shelf off Brazil. Marine Policy, 2021, 128, 104465.	1.5	15
68	Patterns of Bacterial and Archaeal Gene Expression through the Lower Amazon River. Frontiers in Marine Science, 2017, 4, .	1.2	14
69	Chemical and photophysiological impact of terrestriallyâ€derived dissolved organic matter on nitrate uptake in the coastal western Arctic. Limnology and Oceanography, 2017, 62, 1881-1894.	1.6	12
70	Controls on the Transport of Meltwater From the Southern Greenland Ice Sheet in the Labrador Sea. Journal of Geophysical Research: Oceans, 2019, 124, 3551-3560.	1.0	12
71	Chapter 10 Pelagic Bacterial Processes in Polynyas. Elsevier Oceanography Series, 2007, 74, 323-361.	0.1	10
72	Virioplankton Assemblage Structure in the Lower River and Ocean Continuum of the Amazon. MSphere, 2017, 2, .	1.3	10

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73	The influence of light and water mass on bacterial population dynamics in the Amundsen Sea Polynya. Elementa, 2015, 3, .	1.1	9
74	Temporal Variability of Airâ€Sea CO‹sub›2‹/sub› flux in the Western Tropical North Atlantic Influenced by the Amazon River Plume. Global Biogeochemical Cycles, 2021, 35, e2020GB006798.	1.9	6
75	ASPIRE: Teachers and researchers working together to enhance student learning. Elementa, 2014, 3, .	1.1	2
76	Distribution and spatial-temporal variation of organic matter along the Yangtze River-ocean continuum. Elementa, 2022, 10, .	1.1	1