Zanna Chase

List of Publications by Year
in descending order

71 papers	3,568 citations	147726 31 h-index	138417 58 g-index
83 all docs	83 docs citations	83 times ranked	3952 citing authors

#	Article	IF	Citations
1	Southern Ocean Iron Enrichment Experiment: Carbon Cycling in High- and Low-Si Waters. Science, 2004, 304, 408-414.	6.0	546
2	Developing Standards for Dissolved Iron in Seawater. Eos, 2007, 88, 131.	0.1	237
3	The influence of particle composition and particle flux on scavenging of Th, Pa and Be in the ocean. Earth and Planetary Science Letters, 2002, 204, 215-229.	1.8	211
4	Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders: Prospects for a Global Array. Oceanography, 2009, 22, 216-225.	0.5	171
5	Accumulation of biogenic and lithogenic material in the Pacific sector of the Southern Ocean during the past 40,000 years. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 799-832.	0.6	150
6	Vertical budgets for organic carbon and biogenic silica in the Pacific sector of the Southern Ocean, 1996â€“1998. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1645-1674.	0.6	140
7	Microplastic Pollution in Deep-Sea Sediments From the Great Australian Bight. Frontiers in Marine Science, 2020, 7, .	1.2	137
8	The Southern Ocean's biological pump during the Last Glacial Maximum. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1909-1938.	0.6	121
9	Effect of iron limitation on the cadmium to phosphorus ratio of natural phytoplankton assemblages from the Southern Ocean. Limnology and Oceanography, 2003, 48, 1079-1087.	1.6	105
10	Benthic remineralization and burial of biogenic SiO2, CaCO3, organic carbon, and detrital material in the Southern Ocean along a transect at 170Â° West. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 4323-4383.	0.6	91
11	Manganese and iron distributions off central California influenced by upwelling and shelf width. Marine Chemistry, 2005, 95, 235-254.	0.9	88
12	A review of the Australianâ€“New Zealand sector of the Southern Ocean over the last 30Âka (Aus-INTIMATE project). Quaternary Science Reviews, 2013, 74, 35-57.	1.4	77
13	Evidence from authigenic uranium for increased productivity of the glacial subantarctic ocean. Paleoceanography, 2001, 16, 468-478.	3.0	74
14	Scavenging of 230Th, 231Pa and 10Be in the Southern Ocean (SW Pacific sector): the importance of particle flux, particle composition and advection. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 739-768.	0.6	71
15	Controls on deglacial changes in biogenic fluxes in the North Pacific Ocean. Quaternary Science Reviews, 2011, 30, 3350-3363.	1.4	67
16	Metabolic consequences of iron deficiency in heterotrophic marine protozoa. Limnology and Oceanography, 1997, 42, 1673-1684.	1.6	59
17	Distribution and variability of iron input to Oregon coastal waters during the upwelling season. Journal of Geophysical Research, 2005, 110, .	3.3	57
18	Increased glacial-age ventilation of the Chilean margin by Antarctic Intermediate Water. Nature Geoscience, 2010, 3, 23-26.	5.4	56

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19	Input and cycling of iron in the Gulf of Aqaba, Red Sea. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	54
20	Riverine input of macronutrients, iron, and organic matter to the coastal ocean off Oregon, U.S.A., during the winter. Limnology and Oceanography, 2006, 51, 2221-2231.	1.6	50
21	Sources and fluxes of atmospheric trace elements to the Gulf of Aqaba, Red Sea. Journal of Geophysical Research, 2008, 113, .	3.3	50
22	Reactive iron and manganese distributions in seabed sediments near small mountainous rivers off Oregon and California (USA). Continental Shelf Research, 2013, 54, 67-79.	0.9	50
23	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. Reviews of Geophysics, 2020, 58, e2019RG000663.	9.0	49
24	Acid mine tailings in southern Spain. Science of the Total Environment, 1999, 242, 221-229.	3.9	46
25	Global Ocean Sediment Composition and Burial Flux in the Deep Sea. Global Biogeochemical Cycles, 2021, 35, e2020GB006769.	1.9	46
26	Dissolution of fluoride complexes following microwave-assisted hydrofluoric acid digestion of marine sediments. Talanta, 2012, 89, 195-200.	2.9	45
27	Evaluating the impact of atmospheric deposition on dissolved trace-metals in the Gulf of Aqaba, Red Sea. Marine Chemistry, 2011, 126, 256-268.	0.9	44
28	Temporal evolution of mechanisms controlling ocean carbon uptake during the last glacial cycle. Earth and Planetary Science Letters, 2017, 472, 206-215.	1.8	44
29	Iron links river runoff and shelf width to phytoplankton biomass along the U.S. West Coast. Geophysical Research Letters, 2007, 34, .	1.5	42
30	Correction to â€œIron links river runoff and shelf width to phytoplankton biomass along the U.S. West Coastâ€• Geophysical Research Letters, 2007, 34, .	1.5	39
31	Comment on â€œDo geochemical estimates of sediment focusing pass the sediment test in the equatorial Pacific?â€•by M. Lyle et al.. Paleoceanography, 2007, 22, n/a-n/a.	3.0	37
32	Controls on biogenic silica burial in the Southern Ocean. Global Biogeochemical Cycles, 2015, 29, 1599-1616.	1.9	35
33	Comment on â€œOn the importance of opal, carbonate, and lithogenic clays in scavenging and fractionating 230Th, 231Pa and 10Be in the oceanâ€•by S. Luo and T.-L. Ku. Earth and Planetary Science Letters, 2004, 220, 213-222.	1.8	32
34	The simulated climate of the Last Glacial Maximum and insights into the global marine carbon cycle. Climate of the Past, 2016, 12, 2271-2295.	1.3	31
35	Iron, nutrient, and phytoplankton distributions in Oregon coastal waters. Journal of Geophysical Research, 2002, 107, 38-1.	3.3	29
36	Different mechanisms of silicic acid leakage and their biogeochemical consequences. Paleoceanography, 2014, 29, 238-254.	3.0	25

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37	High Lability Fe Particles Sourced From Glacial Erosion Can Meet Previously Unaccounted Biological Demand: Heard Island, Southern Ocean. Frontiers in Marine Science, 2019, 6, .	1.2	25
38	Climatically driven changes in oceanic processes throughout the equatorial Pacific. Paleoceanography, 2004, 19, n/a-n/a.	3.0	22
39	A comparison with natural particles reveals a small specific effect of PVC microplastics on mussel performance. Marine Pollution Bulletin, 2020, 160, 111703.	2.3	19
40	Improved methodology for the microwave digestion of carbonate-rich environmental samples. International Journal of Environmental Analytical Chemistry, 2016, 96, 119-136.	1.8	17
41	Export production in the New-Zealand region since the Last Glacial Maximum. Earth and Planetary Science Letters, 2017, 469, 110-122.	1.8	17
42	Iron availability influences nutrient drawdown in the Heard and McDonald Islands region, Southern Ocean. Marine Chemistry, 2019, 211, 1-14.	0.9	16
43	Benthic fluxes on the Oregon shelf. Estuarine, Coastal and Shelf Science, 2015, 163, 156-166.	0.9	15
44	Ice-sheet control of continental erosion in central and southern Chile (36Â°â€“41Â°S) over the last 30,000 years. Quaternary Science Reviews, 2010, 29, 3230-3239.	1.4	14
45	Detection, dispersal and biogeochemical contribution of hydrothermal iron in the ocean. Marine and Freshwater Research, 2017, 68, 2184.	0.7	14
46	Recent mine spill adds to contamination of southern Spain. Eos, 1998, 79, 449-449.	0.1	13
47	Southern-ocean and glaciogenic nutrients control diatom export production on the Chile margin. Quaternary Science Reviews, 2014, 99, 135-145.	1.4	13
48	Marine nitrogen fixers mediate a low latitude pathway for atmospheric CO2 drawdown. Nature Communications, 2019, 10, 4611.	5.8	13
49	Microplate-reader method for the rapid analysis of copper in natural waters with chemiluminescence detection. Frontiers in Microbiology, 2012, 3, 437.	1.5	12
50	Reduced oxygenation at intermediate depths of the southwest Pacific during the last glacial maximum. Earth and Planetary Science Letters, 2018, 491, 48-57.	1.8	12
51	Compiled Southern Ocean sea surface temperatures correlate with Antarctic Isotope Maxima. Quaternary Science Reviews, 2021, 255, 106821.	1.4	11
52	Trace elements and nutrients in wildfire plumes to the southeast of Australia. Atmospheric Research, 2022, 270, 106084.	1.8	11
53	Dynamic Biological Functioning Important for Simulating and Stabilizing Ocean Biogeochemistry. Global Biogeochemical Cycles, 2018, 32, 565-593.	1.9	10
54	Pre-concentration of thorium and neodymium isotopes using Nobias chelating resin: Method development and application to chromatographic separation. Talanta, 2019, 202, 600-609.	2.9	10

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55	Plastic and natural inorganic microparticles do not differ in their effects on adult mussels (Mytilidae) from different geographic regions. Science of the Total Environment, 2022, 811, 151740.	3.9	10
56	Ocean carbon and nitrogen isotopes in CSIRO Mk3L-COAL version 1.0: a tool for palaeoceanographic research. Geoscientific Model Development, 2019, 12, 1491-1523.	1.3	9
57	Scratching the Surface: A Marine Sediment Provenance Record From the Continental Slope of Central Wilkes Land, East Antarctica. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009156.	1.0	9
58	Southern Ocean Phytoplankton Stimulated by Wildfire Emissions and Sustained by Iron Recycling. Geophysical Research Letters, 2022, 49, .	1.5	9
59	Discovering the Oceanâ€™s Past through Geochemistry. Elements, 2018, 14, 397-402.	0.5	8
60	Development and initial deployments of an autonomous in situ instrument for long-term monitoring of copper (II) in the marine environment. Limnology and Oceanography: Methods, 2008, 6, 336-346.	1.0	7
61	Sources of Organic Tracers in Atmospheric Dust, Surface Seawater Particulate Matter and Sediment of the Red Sea. Springer Oceanography, 2019, , 75-88.	0.2	6
62	Quantifying Lithogenic Inputs to the Southern Ocean Using Long-Lived Thorium Isotopes. Frontiers in Marine Science, 2020, 7, .	1.2	6
63	Glacial and Hydrothermal Sources of Dissolved Iron (II) in Southern Ocean Waters Surrounding Heard and McDonald Islands. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016286.	1.0	5
64	Tracking Southern Ocean Sea Ice Extent With Winter Water: A New Method Based on the Oxygen Isotopic Signature of Foraminifera. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004095.	1.3	5
65	A First Intercomparison of the Simulated LGM Carbon Results Within PMIPâ€Carbon: Role of the Ocean Boundary Conditions. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004302.	1.3	5
66	Biogeochemical characteristics of eddies in the East Australian Current depend on eddy type, history and location. Journal of Marine Systems, 2021, 216, 103512.	0.9	4
67	Southern Ocean Ecosystem Response to Last Glacial Maximum Boundary Conditions. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004075.	1.3	4
68	Sea ice changes in the southwest Pacific sector of the Southern Ocean during the last 140â€‰000 years. Climate of the Past, 2022, 18, 465-483.	1.3	4
69	Chapter 11 Sediment Signatures of U- and Th-Series Nuclides and their Application as Paleoceanographic Tracers. Radioactivity in the Environment, 2008, , 383-416.	0.2	1
70	Chemical pollutants in the marine environment: causes, effects, and challenges. , 2016, , 228-246.		1
71	Quantifying and characterising metal concentrations in Derwent Estuary sediments using portable X-ray fluorescence spectrometry. Australian Journal of Earth Sciences, 0, , 1-15.	0.4	0