

Phoebe J Lam

List of Publications by Year in descending order

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72
papers

4,973
citations

76294

40
h-index

91828

69
g-index

82
all docs

82
docs citations

82
times ranked

4761
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting Carbon Flux Through the Ocean's Twilight Zone. <i>Science</i> , 2007, 316, 567-570.	6.0	547
2	A global ocean inventory of anthropogenic mercury based on water column measurements. <i>Nature</i> , 2014, 512, 65-68.	13.7	404
3	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	1.4	257
4	The continental margin is a key source of iron to the HNLC North Pacific Ocean. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	242
5	Authigenic cadmium enrichments in suboxic sediments: Precipitation and postdepositional mobility. <i>Earth and Planetary Science Letters</i> , 1995, 132, 99-111.	1.8	211
6	Wintertime phytoplankton bloom in the subarctic Pacific supported by continental margin iron. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	190
7	Biogeochemical iron budgets of the Southern Ocean south of Australia: Decoupling of iron and nutrient cycles in the subantarctic zone by the summertime supply. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	164
8	The dynamic ocean biological pump: Insights from a global compilation of particulate organic carbon, CaCO ₃ , and opal concentration profiles from the mesopelagic. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	141
9	Basin-scale inputs of cobalt, iron, and manganese from the Benguela-Angola front to the South Atlantic Ocean. <i>Limnology and Oceanography</i> , 2012, 57, 989-1010.	1.6	134
10	Cycling of lithogenic marine particles in the US GEOTRACES North Atlantic transect. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 116, 283-302.	0.6	125
11	Size-fractionated major particle composition and concentrations from the US GEOTRACES North Atlantic Zonal Transect. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 116, 303-320.	0.6	122
12	Getting good particles: Accurate sampling of particles by large volume in-situ filtration. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 681-710.	1.0	95
13	Factors regulating the Great Calcite Belt in the Southern Ocean and its biogeochemical significance. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1124-1144.	1.9	86
14	High biomass, low export regimes in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 601-638.	0.6	83
15	Intensity of Th and Pa scavenging partitioned by particle chemistry in the North Atlantic Ocean. <i>Marine Chemistry</i> , 2015, 170, 49-60.	0.9	83
16	The Transpolar Drift as a Source of Riverine and Shelf-Derived Trace Elements to the Central Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015920.	1.0	80
17	Barite formation in the ocean: Origin of amorphous and crystalline precipitates. <i>Chemical Geology</i> , 2019, 511, 441-451.	1.4	74
18	Size-fractionated distributions of suspended particle concentration and major phase composition from the U.S. GEOTRACES Eastern Pacific Zonal Transect (GP16). <i>Marine Chemistry</i> , 2018, 201, 90-107.	0.9	72

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19	Dynamics of particulate organic carbon flux in a global ocean model. <i>Biogeosciences</i> , 2014, 11, 1177-1198.	1.3	66
20	How well can we quantify dust deposition to the ocean?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150285.	1.6	66
21	Distributions of dissolved and particulate iron in the sub-Antarctic and Polar Frontal Southern Ocean (Australian sector). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 2094-2112.	0.6	65
22	Accumulation of Fe oxyhydroxides in the Peruvian oxygen deficient zone implies non-oxygen dependent Fe oxidation. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 211, 174-193.	1.6	64
23	The oceanographic toolbox for the collection of sinking and suspended marine particles. <i>Progress in Oceanography</i> , 2015, 133, 17-31.	1.5	61
24	Sinking fluxes of minor and trace elements in the North Pacific Ocean measured during the VERTIGO program. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1564-1577.	0.6	58
25	Laboratory intercomparison of marine particulate digestions including Piranha: a novel chemical method for dissolution of polyethersulfone filters. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 530-547.	1.0	58
26	Coastal ocean and shelf-sea biogeochemical cycling of trace elements and isotopes: lessons learned from GEOTRACES. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160076.	1.6	56
27	Small phytoplankton drive high summertime carbon and nutrient export in the Gulf of California and Eastern Tropical North Pacific. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1309-1332.	1.9	55
28	The distribution of dissolved and particulate Mo and V along the U.S. GEOTRACES East Pacific Zonal Transect (GP16): The roles of oxides and biogenic particles in their distributions in the oxygen deficient zone and the hydrothermal plume. <i>Marine Chemistry</i> , 2018, 201, 242-255.	0.9	55
29	The speciation of marine particulate iron adjacent to active and passive continental margins. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 80, 108-124.	1.6	54
30	Coastal sources, sinks and strong organic complexation of dissolved cobalt within the US North Atlantic GEOTRACES transect GA03. <i>Biogeosciences</i> , 2017, 14, 2715-2739.	1.3	53
31	Trace Metal Substitution in Marine Phytoplankton. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 491-517.	4.6	52
32	Insights into Particle Cycling from Thorium and Particle Data. <i>Annual Review of Marine Science</i> , 2015, 7, 159-184.	5.1	49
33	Transient stratification as the cause of the North Pacific productivity spike during deglaciation. <i>Nature Geoscience</i> , 2013, 6, 622-626.	5.4	45
34	Size distribution of particulate trace elements in the U.S. GEOTRACES Eastern Pacific Zonal Transect (GP16). <i>Marine Chemistry</i> , 2018, 201, 108-123.	0.9	45
35	What did we learn about ocean particle dynamics in the GEOSECSâ€™JGOFS era?. <i>Progress in Oceanography</i> , 2015, 133, 6-16.	1.5	44
36	Biogeochemical cycling of Fe and Fe stable isotopes in the Eastern Tropical South Pacific. <i>Marine Chemistry</i> , 2018, 201, 66-76.	0.9	42

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37	234Th as a tracer of particulate export and remineralization in the southeastern tropical Pacific. <i>Marine Chemistry</i> , 2018, 201, 35-50.	0.9	42
38	Intense hydrothermal scavenging of 230Th and 231Pa in the deep Southeast Pacific. <i>Marine Chemistry</i> , 2018, 201, 212-228.	0.9	42
39	Arctic Deep Water Ferromanganese Oxide Deposits Reflect the Unique Characteristics of the Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3771-3800.	1.0	41
40	Shallow particulate organic carbon regeneration in the South Pacific Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9753-9758.	3.3	41
41	Cobalt scavenging in the mesopelagic ocean and its influence on global mass balance: Synthesizing water column and sedimentary fluxes. <i>Marine Chemistry</i> , 2018, 201, 151-166.	0.9	40
42	Flux of Particulate Elements in the North Atlantic Ocean Constrained by Multiple Radionuclides. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1738-1758.	1.9	39
43	Methods for analyzing the concentration and speciation of major and trace elements in marine particles. <i>Progress in Oceanography</i> , 2015, 133, 32-42.	1.5	37
44	Size-Fractionated Compositions of Marine Suspended Particles in the Western Arctic Ocean: Lateral and Vertical Sources. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016144.	1.0	37
45	Carbon export and transfer to depth across the Southern Ocean Great Calcite Belt. <i>Biogeosciences</i> , 2015, 12, 3953-3971.	1.3	32
46	The acceleration of dissolved cobalt's ecological stoichiometry due to biological uptake, remineralization, and scavenging in the Atlantic Ocean. <i>Biogeosciences</i> , 2017, 14, 4637-4662.	1.3	30
47	Comparison of particulate trace element concentrations in the North Atlantic Ocean as determined with discrete bottle sampling and in situ pumping. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 116, 273-282.	0.6	29
48	Near-field iron and carbon chemistry of non-buoyant hydrothermal plume particles, Southern East Pacific Rise 15°S. <i>Marine Chemistry</i> , 2018, 201, 183-197.	0.9	27
49	Nitrogen and oxygen isotope measurements of nitrate along the US GEOTRACES Eastern Pacific Zonal Transect (GP16) yield insights into nitrate supply, remineralization, and water mass transport. <i>Marine Chemistry</i> , 2018, 201, 137-150.	0.9	26
50	The influence of particle concentration and composition on the fractionation of 210Po and 210Pb along the North Atlantic GEOTRACES transect GA03. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 128, 42-54.	0.6	24
51	Kinetics of thorium and particle cycling along the U.S. GEOTRACES North Atlantic Transect. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 125, 106-128.	0.6	21
52	Variability in 210Pb and 210Po partition coefficients (Kd) along the US GEOTRACES Arctic transect. <i>Marine Chemistry</i> , 2020, 219, 103749.	0.9	21
53	Distribution and isotopic signature of ligand-leachable particulate iron along the GEOTRACES GP16 East Pacific Zonal Transect. <i>Marine Chemistry</i> , 2018, 201, 198-211.	0.9	20
54	Insights From the ²³⁸ U- ²³⁴ Th Method Into the Coupling of Biological Export and the Cycling of Cadmium, Cobalt, and Manganese in the Southeast Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2019, 33, 15-36.	1.9	20

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55	Unexpected Source and Transport of Iron from the Deep Peru Margin. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 977-992.	1.2	20
56	Ironing Out Fe Residence Time in the Dynamic Upper Ocean. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006592.	1.9	19
57	Global Spatial and Temporal Variation of Cd:P in Euphotic Zone Particulates. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1123-1141.	1.9	18
58	An intermediate-depth source of hydrothermal ³ He and dissolved iron in the North Pacific. <i>Earth and Planetary Science Letters</i> , 2020, 539, 116223.	1.8	16
59	Optical observation of particles and responses to particle composition in the GEOTRACES GP16 section. <i>Marine Chemistry</i> , 2018, 201, 124-136.	0.9	11
60	The Effect of Particle Composition and Concentration on the Partitioning Coefficient for Mercury in Three Ocean Basins. <i>Frontiers in Environmental Chemistry</i> , 2021, 2, .	0.7	10
61	Changing chemistry of particulate manganese in the near- and far-field hydrothermal plumes from 15°S East Pacific Rise and its influence on metal scavenging. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 95-118.	1.6	10
62	Estimating Mass Flux From Size-Fractionated Filtered Particles: Insights Into Controls on Sinking Velocities and Mass Fluxes in Recent U.S. GEOTRACES Cruises. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	10
63	Major processes of the dissolved cobalt cycle in the North and equatorial Pacific Ocean. <i>Biogeosciences</i> , 2022, 19, 2365-2395.	1.3	9
64	Dissolved and Particulate Barium Distributions Along the US GEOTRACES North Atlantic and East Pacific Zonal Transects (GA03 and GP16): Global Implications for the Marine Barium Cycle. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	8
65	Diagnostic Morphology and Solid-State Chemical Speciation of Hydrothermally Derived Particulate Fe in a Long-Range Dispersing Plume. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1831-1842.	1.2	7
66	Diel Redox Cycle of Manganese in the Surface Arctic Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094805.	1.5	7
67	Distribution, Sources, and Dynamics of Particulate Matter Along Trans-Arctic Sections. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	7
68	Iron Isotope Biogeochemical Cycling in the Western Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006977.	1.9	6
69	Strong Margin Influence on the Arctic Ocean Barium Cycle Revealed by Pan-Arctic Synthesis. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	6
70	Transmitted Cross-Polarized Light Detection of Particulate Inorganic Carbon Concentrations and Fluxes in the Ocean Water Column: Ships to ARGO Floats. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	1.3	5
71	The effect of sample drying temperature on marine particulate organic carbon composition. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 286-298.	1.0	3
72	Marine Particle Chemistry: Influence on Biogeochemical Cycles and Particle Export. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1210-1211.	1.2	1