Clifton S Buck

List of Publications by Year
in descending order

32 papers	1,848 citations	279798 23 h-index	414414 32 g-index
34 all docs	34 docs citations	34 times ranked	2095 citing authors

#	Article	IF	Citations
1	Bulk Aerosol Trace Element Concentrations and Deposition Fluxes During the U.S. GEOTRACES GP15 Pacific Meridional Transect. Global Biogeochemical Cycles, 2022, 36, .	4.9	8
2	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	3.2	121
3	Biogeochemical Cycling of Colloidal Trace Metals in the Arctic Cryosphere. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017394.	2.6	8
4	Concentrations and size-distributions of water-soluble inorganic and organic species on aerosols over the Arctic Ocean observed during the US GEOTRACES Western Arctic Cruise GN01. Atmospheric Environment, 2021, 261, 118569.	4.1	2
5	Quantifying Atmospheric Trace Element Deposition Over the Ocean on a Global Scale With Satellite Rainfall Products. Geophysical Research Letters, 2020, 47, e2019GL086357.	4.0	13
6	Sources, fluxes and residence times of trace elements measured during the U.S. GEOTRACES East Pacific Zonal Transect. Marine Chemistry, 2020, 222, 103781.	2.3	15
7	Perspective on identifying and characterizing the processes controlling iron speciation and residence time at the atmosphere-ocean interface. Marine Chemistry, 2019, 217, 103704.	2.3	41
8	Trace element concentrations, elemental ratios, and enrichment factors observed in aerosol samples collected during the US GEOTRACES eastern Pacific Ocean transect (GP16). Chemical Geology, 2019, 511, 212-224.	3.3	38
9	Pyrogenic iron: The missing link to high iron solubility in aerosols. Science Advances, 2019, 5, eaau7671.	10.3	128
10	Particle-Size Variability of Aerosol Iron and Impact on Iron Solubility and Dry Deposition Fluxes to the Arctic Ocean. Scientific Reports, 2019, 9, 16653.	3.3	25
11	The residence times of trace elements determined in the surface Arctic Ocean during the 2015 US Arctic GEOTRACES expedition. Marine Chemistry, 2019, 208, 56-69.	2.3	34
12	Atmospheric processing of iron in mineral and combustion aerosols: development of an intermediate-complexity mechanism suitable for Earth system models. Atmospheric Chemistry and Physics, 2018, 18, 14175-14196.	4.9	41
13	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
14	Concentrations, provenance and flux of aerosol trace elements during US GEOTRACES Western Arctic cruise GN01. Chemical Geology, 2018, 502, 1-14.	3.3	36
15	Dissolved and particulate trace elements in late summer Arctic melt ponds. Marine Chemistry, 2018, 204, 70-85.	2.3	28
16	Dust deposition in the eastern Indian Ocean: The ocean perspective from Antarctica to the Bay of Bengal. Global Biogeochemical Cycles, 2015, 29, 357-374.	4.9	45
17	Flux of Total Mercury and Methylmercury to the Northern Gulf of Mexico from U.S. Estuaries. Environmental Science & Technology, 2015, 49, 13992-13999.	10.0	23
18	Dissolved Fe and Al in the upper 1000â€‰m of the eastern Indian Ocean: A highâ€resolution transect along 95Â°E from the Antarctic margin to the Bay of Bengal. Global Biogeochemical Cycles, 2015, 29, 375-396.	4.9	36

#	Article	IF	Citations
19	Calcium carbonate dissolution in the upper 1000â€‰m of the eastern North Atlantic. Global Biogeochemical Cycles, 2014, 28, 386-397.	4.9	19
20	Quantifying the Impact of Atmospheric Deposition on the Biogeochemistry of Fe and Al in the Upper Ocean: A Decade of Collaboration with the US CLIVAR-CO2 Repeat Hydrography Program. Oceanography, 2014, 27, 62-65.	1.0	10
21	Pacific Ocean aerosols: Deposition and solubility of iron, aluminum, and other trace elements. Marine Chemistry, 2013, 157, 117-130.	2.3	89
22	Methods for the sampling and analysis of marine aerosols: results from the 2008 GEOTRACES aerosol intercalibration experiment. Limnology and Oceanography: Methods, 2013, 11, 62-78.	2.0	100
23	Evaluation of commonly used filter substrates for the measurement of aerosol trace element solubility. Limnology and Oceanography: Methods, 2012, 10, 790-806.	2.0	19
24	The trace element composition of suspended particulate matter in the upper 1000m of the eastern North Atlantic Ocean: A16N. Marine Chemistry, 2012, 142-144, 41-53.	2.3	26
25	Global estimates of mineral dust aerosol iron and aluminum solubility that account for particle size using diffusionâ€controlled and surfaceâ€areaâ€controlled approximations. Global Biogeochemical Cycles, 2012, 26, .	4.9	12
26	Asian Industrial Lead Inputs to the North Pacific Evidenced by Lead Concentrations and Isotopic Compositions in Surface Waters and Aerosols. Environmental Science & Technology, 2011, 45, 9874-9882.	10.0	79
27	The solubility and deposition of aerosol Fe and other trace elements in the North Atlantic Ocean: Observations from the A16N CLIVAR/CO2 repeat hydrography section. Marine Chemistry, 2010, 120, 57-70.	2.3	126
28	Particle size and aerosol iron solubility: A high-resolution analysis of Atlantic aerosols. Marine Chemistry, 2010, 120, 14-24.	2.3	81
29	Aeolian Contamination of Se and Ag in the North Pacific from Asian Fossil Fuel Combustion. Environmental Science & Technology, 2010, 44, 1587-1593.	10.0	40
30	Highâ€resolution Al and Fe data from the Atlantic Ocean CLIVARâ€CO₂ Repeat Hydrography A16N transect: Extensive linkages between atmospheric dust and upper ocean geochemistry. Global Biogeochemical Cycles, 2008, 22, .	4.9	94
31	A commercially available rosette system for trace metalâ€”clean sampling. Limnology and Oceanography: Methods, 2008, 6, 384-394.	2.0	87
32	Aerosol iron and aluminum solubility in the northwest Pacific Ocean: Results from the 2002 IOC cruise. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	167