

Clifton S Buck

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5120400/publications.pdf>

Version: 2024-02-01

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	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
2	Aerosol iron and aluminum solubility in the northwest Pacific Ocean: Results from the 2002 IOC cruise. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	167
3	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	10.3	128
4	The solubility and deposition of aerosol Fe and other trace elements in the North Atlantic Ocean: Observations from the A16N CLIVAR/CO ₂ repeat hydrography section. <i>Marine Chemistry</i> , 2010, 120, 57-70.	2.3	126
5	Overview of the MOSAiC expedition: Atmosphere. <i>Elementa</i> , 2022, 10, .	3.2	121
6	Methods for the sampling and analysis of marine aerosols: results from the 2008 GEOTRACES aerosol intercalibration experiment. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 62-78.	2.0	100
7	High-resolution Al and Fe data from the Atlantic Ocean CLIVAR CO ₂ Repeat Hydrography A16N transect: Extensive linkages between atmospheric dust and upper ocean geochemistry. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	94
8	Pacific Ocean aerosols: Deposition and solubility of iron, aluminum, and other trace elements. <i>Marine Chemistry</i> , 2013, 157, 117-130.	2.3	89
9	A commercially available rosette system for trace metal "clean" sampling. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 384-394.	2.0	87
10	Particle size and aerosol iron solubility: A high-resolution analysis of Atlantic aerosols. <i>Marine Chemistry</i> , 2010, 120, 14-24.	2.3	81
11	Asian Industrial Lead Inputs to the North Pacific Evidenced by Lead Concentrations and Isotopic Compositions in Surface Waters and Aerosols. <i>Environmental Science & Technology</i> , 2011, 45, 9874-9882.	10.0	79
12	Dust deposition in the eastern Indian Ocean: The ocean perspective from Antarctica to the Bay of Bengal. <i>Global Biogeochemical Cycles</i> , 2015, 29, 357-374.	4.9	45
13	Atmospheric processing of iron in mineral and combustion aerosols: development of an intermediate-complexity mechanism suitable for Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14175-14196.	4.9	41
14	Perspective on identifying and characterizing the processes controlling iron speciation and residence time at the atmosphere-ocean interface. <i>Marine Chemistry</i> , 2019, 217, 103704.	2.3	41
15	Aeolian Contamination of Se and Ag in the North Pacific from Asian Fossil Fuel Combustion. <i>Environmental Science & Technology</i> , 2010, 44, 1587-1593.	10.0	40
16	Trace element concentrations, elemental ratios, and enrichment factors observed in aerosol samples collected during the US GEOTRACES eastern Pacific Ocean transect (GP16). <i>Chemical Geology</i> , 2019, 511, 212-224.	3.3	38
17	Concentrations, provenance and flux of aerosol trace elements during US GEOTRACES Western Arctic cruise GN01. <i>Chemical Geology</i> , 2018, 502, 1-14.	3.3	36
18	Dissolved Fe and Al in the upper 1000 m of the eastern Indian Ocean: A high-resolution transect along 95°E from the Antarctic margin to the Bay of Bengal. <i>Global Biogeochemical Cycles</i> , 2015, 29, 375-396.	4.9	36

#	ARTICLE	IF	CITATIONS
19	The residence times of trace elements determined in the surface Arctic Ocean during the 2015 US Arctic GEOTRACES expedition. <i>Marine Chemistry</i> , 2019, 208, 56-69.	2.3	34
20	Dissolved and particulate trace elements in late summer Arctic melt ponds. <i>Marine Chemistry</i> , 2018, 204, 70-85.	2.3	28
21	The trace element composition of suspended particulate matter in the upper 1000m of the eastern North Atlantic Ocean: A16N. <i>Marine Chemistry</i> , 2012, 142-144, 41-53.	2.3	26
22	Particle-Size Variability of Aerosol Iron and Impact on Iron Solubility and Dry Deposition Fluxes to the Arctic Ocean. <i>Scientific Reports</i> , 2019, 9, 16653.	3.3	25
23	Flux of Total Mercury and Methylmercury to the Northern Gulf of Mexico from U.S. Estuaries. <i>Environmental Science & Technology</i> , 2015, 49, 13992-13999.	10.0	23
24	Evaluation of commonly used filter substrates for the measurement of aerosol trace element solubility. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 790-806.	2.0	19
25	Calcium carbonate dissolution in the upper 1000m of the eastern North Atlantic. <i>Global Biogeochemical Cycles</i> , 2014, 28, 386-397.	4.9	19
26	Sources, fluxes and residence times of trace elements measured during the U.S. GEOTRACES East Pacific Zonal Transect. <i>Marine Chemistry</i> , 2020, 222, 103781.	2.3	15
27	Quantifying Atmospheric Trace Element Deposition Over the Ocean on a Global Scale With Satellite Rainfall Products. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086357.	4.0	13
28	Global estimates of mineral dust aerosol iron and aluminum solubility that account for particle size using diffusion-controlled and surface-area-controlled approximations. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	12
29	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. <i>Oceanography</i> , 2014, 27, 62-65.	1.0	10
30	Biogeochemical Cycling of Colloidal Trace Metals in the Arctic Cryosphere. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017394.	2.6	8
31	Bulk Aerosol Trace Element Concentrations and Deposition Fluxes During the U.S. GEOTRACES GP15 Pacific Meridional Transect. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	8
32	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. <i>Atmospheric Environment</i> , 2021, 261, 118569.	4.1	2