Dorothea Bauch

List of Publications by Year
in descending order

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Version: 2024-02-01

63 papers	3,078 citations	172457 29 h-index	161849 54 g-index

70 all docs	70 docs citations	70 times ranked	3088 citing authors

#	Article	IF	Citations
1	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
2	Freshwater balance and the sources of deep and bottom waters in the Arctic Ocean inferred from the distribution of H218O. Progress in Oceanography, 1995, 35, 53-80.	3.2	240
3	Dissolved organic matter sources in large Arctic rivers. Geochimica Et Cosmochimica Acta, 2012, 94, 217-237.	3.9	207
4	The potential transport of pollutants by Arctic sea ice. Science of the Total Environment, 1995, 159, 129-146.	8.0	163
5	Arctic river-runoff: mean residence time on the shelves and in the halocline. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 1053-1068.	1.4	145
6	Oxygen isotope composition of living Neogloboquadrina pachyderma (sin.) in the Arctic Ocean. Earth and Planetary Science Letters, 1997, 146, 47-58.	4.4	126
7	Dissolved iron in the Arctic shelf seas and surface waters of the central Arctic Ocean: Impact of Arctic river water and iceâ€melt. Journal of Geophysical Research, 2012, 117, .	3.3	95
8	Atlantic Water advection versus seaâ€ice advances in the eastern Fram Strait during the last 9 ka: Multiproxy evidence for a twoâ€phase Holocene. Paleoceanography, 2013, 28, 283-295.	3.0	95
9	Origin of freshwater and polynya water in the Arctic Ocean halocline in summer 2007. Progress in Oceanography, 2011, 91, 482-495.	3.2	87
10	The Transpolar Drift as a Source of Riverine and Shelfâ€Derived Trace Elements to the Central Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015920.	2.6	80
11	The Northern Barents Sea: Water Mass Distribution and Modification. Geophysical Monograph Series, 0, , 77-94.	0.1	73
12	Palaeoceanographic implications of genetic variation in living North Atlantic Neogloboquadrina pachyderma. Nature, 2003, 424, 299-302.	27.8	71
13	228Ra as a tracer for shelf water in the arctic ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 1533-1553.	1.4	68
14	First 236U data from the Arctic Ocean and use of 236U/238U and 129I/236U as a new dual tracer. Earth and Planetary Science Letters, 2016, 440, 127-134.	4.4	66
15	Water mass processes on Arctic shelves as revealed from O of HO. Global and Planetary Change, 2005, 48, 165-174.	3.5	61
16	Exchange of Laptev Sea and Arctic Ocean halocline waters in response to atmospheric forcing. Journal of Geophysical Research, 2009, 114, .	3.3	60
17	Atlantic Water advection to the eastern Fram Strait â€" Multiproxy evidence for late Holocene variability. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 308, 264-276.	2.3	56
18	Overview of the MOSAiC expedition: Physical oceanography. Elementa, 2022, 10, .	3.2	54

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19	Impact of the Arctic Ocean Atlantic water layer on Siberian shelf hydrography. Journal of Geophysical Research, 2010, 115, .	3.3	51
20	The imprint of anthropogenic CO2 in the Arctic Ocean: evidence from planktic Î´13C data from watercolumn and sediment surfaces. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 1791-1808.	1.4	49
21	Carbon isotopes and habitat of polar planktic foraminifera in the Okhotsk Sea: the â€˜carbonate ion effectâ€™ under natural conditions. Marine Micropaleontology, 2002, 45, 83-99.	1.2	49
22	Correlation of river water and local seaâ€ice melting on the Laptev Sea shelf (Siberian Arctic). Journal of Geophysical Research: Oceans, 2013, 118, 550-561.	2.6	48
23	Drifting Arctic sea ice archives changes in ocean surface conditions. Geophysical Research Letters, 2004, 31, .	4.0	41
24	Ocean circulation and freshwater pathways in the Arctic Mediterranean based on a combined Nd isotope, REE and oxygen isotope section across Fram Strait. Geochimica Et Cosmochimica Acta, 2017, 202, 285-309.	3.9	40
25	Atmospheric controlled freshwater release at the Laptev Sea continental margin. Polar Research, 2011, 30, 5858.	1.6	39
26	Radium Isotopes Across the Arctic Ocean Show Time Scales of Water Mass Ventilation and Increasing Shelf Inputs. Journal of Geophysical Research: Oceans, 2018, 123, 4853-4873.	2.6	39
27	Seasonal modification of the Arctic Ocean intermediate water layer off the eastern Laptev Sea continental shelf break. Journal of Geophysical Research, 2009, 114, .	3.3	36
28	Episodic warming of nearâ€bottom waters under the Arctic sea ice on the central Laptev Sea shelf. Geophysical Research Letters, 2016, 43, 264-272.	4.0	36
29	Halocline water modification and along-slope advection at the Laptev Sea continental margin. Ocean Science, 2014, 10, 141-154.	3.4	35
30	Stable oxygen and carbon isotopes in modern benthic foraminifera from the Laptev Sea shelf: implications for reconstructing proglacial and profluvial environments in the Arctic. Marine Micropaleontology, 2004, 51, 285-300.	1.2	32
31	Impact of Siberian coastal polynyas on shelfâ€derived Arctic Ocean halocline waters. Journal of Geophysical Research, 2012, 117, .	3.3	30
32	Holocene variability of bottom water hydrography on the Kara Sea shelf (Siberia) depicted in multiple single-valve analyses of stable isotopes in ostracods. Marine Geology, 2004, 206, 147-164.	2.1	29
33	Interannual variability of surface and bottom sediment transport on the Laptev Sea shelf during summer. Biogeosciences, 2013, 10, 1117-1129.	3.3	29
34	Shelf basin exchange along the Siberian continental margin: Modification of Atlantic Water and Lower Halocline Water. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 115, 188-198.	1.4	29
35	Seaâ€ice production over the Laptev Sea shelf inferred from historical summerâ€toâ€winter hydrographic observations of 1960sâ€“1990s. Geophysical Research Letters, 2009, 36, .	4.0	28
36	Shelfâ€basin exchange times of Arctic surface waters estimated from ²²⁸Th/²²⁸Ra disequilibrium. Journal of Geophysical Research, 2012, 117, .	3.3	28

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37	The Transpolar Drift conveys methane from the Siberian Shelf to the central Arctic Ocean. Scientific Reports, 2018, 8, 4515.	3.3	28
38	Transport and transformation of riverine neodymium isotope and rare earth element signatures in high latitude estuaries: A case study from the Laptev Sea. Earth and Planetary Science Letters, 2017, 477, 205-217.	4.4	27
39	Eurasian Arctic shelf hydrography: Exchange and residence time of southern Laptev Sea waters. Continental Shelf Research, 2009, 29, 1815-1820.	1.8	24
40	Properties of the Atlantic derived halocline waters over the Laptev Sea continental margin: Evidence from 2002 to 2009. Journal of Geophysical Research, 2011, 116, .	3.3	23
41	Nitrogen dynamic in Eurasian coastal Arctic ecosystem: Insight from nitrogen isotope. Global Biogeochemical Cycles, 2017, 31, 836-849.	4.9	23
42	Changes in distribution of brine waters on the Laptev Sea shelf in 2007. Journal of Geophysical Research, 2010, 115, .	3.3	22
43	Water Mass Classification on a Highly Variable Arctic Shelf Region: Origin of Laptev Sea Water Masses and Implications for the Nutrient Budget. Journal of Geophysical Research: Oceans, 2018, 123, 1896-1906.	2.6	21
44	Utility of dissolved barium in distinguishing North American from Eurasian runoff in the Arctic Ocean. Marine Chemistry, 2012, 132-133, 1-14.	2.3	20
45	Oxygen and carbon isotope composition of modern planktic foraminifera and near-surface waters in the Fram Strait (Arctic Ocean) â€“ a case study. Biogeosciences, 2015, 12, 1733-1752.	3.3	20
46	Barents Sea upstream events impact the properties of Atlantic water inflow into the Arctic Ocean: Evidence from 2005 to 2006 downstream observations. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 513-527.	1.4	19
47	Separating individual contributions of major Siberian rivers in the Transpolar Drift of the Arctic Ocean. Scientific Reports, 2021, 11, 8216.	3.3	19
48	Recent freshening in the Kara Sea (Siberia) recorded by stable isotopes in Arctic bivalve shells. Journal of Geophysical Research, 2005, 110, .	3.3	18
49	Interannual variations in river water content and distribution over the Laptev Sea between 2007 and 2011: The Arctic Dipole connection. Geophysical Research Letters, 2014, 41, 7237-7244.	4.0	18
50	On the Variability of Stratification in the Freshwater-Influenced Laptev Sea Region. Frontiers in Marine Science, 2020, 7, .	2.5	17
51	Water mass transformation in the Barents Sea inferred from radiogenic neodymium isotopes, rare earth elements and stable oxygen isotopes. Chemical Geology, 2019, 511, 416-430.	3.3	16
52	A baseline for the vertical distribution of the stable carbon isotopes of dissolved inorganic carbon (Î´13CDIC) in the Arctic Ocean. Arktos, 2015, 1, 1.	1.0	15
53	Insights into the origins, molecular characteristics and distribution of iron-binding ligands in the Arctic Ocean. Marine Chemistry, 2021, 231, 103936.	2.3	12
54	Dissolved Cd, Co, Cu, Fe, Mn, Ni, and Zn in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017323.	2.6	11

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55	Effects of atmospheric vorticity on the seasonal hydrographic cycle over the eastern Siberian shelf. Geophysical Research Letters, 2008, 35, .	4.0	9
56	Insights Into Water Mass Origins in the Central Arctic Ocean From Inâ€Situ Dissolved Organic Matter Fluorescence. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017407.	2.6	9
57	Highâ€Resolution Mg/Ca and Î´18 O Patterns in Modern Neogloboquadrina pachyderma From the Fram Strait and Irminger Sea. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003969.	2.9	7
58	Strong Margin Influence on the Arctic Ocean Barium Cycle Revealed by Panâ€Arctic Synthesis. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	6
59	The impact of climatic and atmospheric teleconnections on the brine inventory over the <scp>L</scp>aptev <scp>S</scp>ea shelf between 2007 and 2011. Geochemistry, Geophysics, Geosystems, 2016, 17, 56-64.	2.5	4
60	The impact of the freezeâ€“melt cycle of land-fast ice on the distribution of dissolved organic matter in the Laptev and East Siberian seas (Siberian Arctic). Biogeosciences, 2021, 18, 3637-3655.	3.3	4
61	RUSSIAN-GERMAN COLLABORATION IN THE ARCTIC ENVIRONMENTAL RESEARCH. Geography, Environment, Sustainability, 2011, 4, 85-113.	1.3	3
62	A Refinement of the Processes Controlling Dissolved Copper and Nickel Biogeochemistry: Insights From the Panâ€Arctic. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	3
63	Impacts of glacier and sea ice melt on methane pathways on the Northeast Greenland shelf. Continental Shelf Research, 2022, 243, 104752.	1.8	2