T Van De Flierdt

List of Publications by Year
in descending order

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108	5,040	71061	98753
papers	citations	41 h-index	67 g-index

109	109	109	4579
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Early and middle Miocene ice sheet dynamics in the Ross Sea: Results from integrated core-log-seismic interpretation. Bulletin of the Geological Society of America, 2022, 134, 348-370.	1.6	13
2	Past Antarctic ice sheet dynamics (PAIS) and implications for future sea-level change. , 2022, , 689-768.		6
3	Pleistocene Antarctic climate variability: ice sheet, ocean and climate interactions. , 2022, , 523-621.		5
4	Antarctic environmental change and ice sheet evolution through the Miocene to Pliocene â€“ a perspective from the Ross Sea and George V to Wilkes Land Coasts. , 2022, , 389-521.		5
5	Absence of a strong, deep-reaching Antarctic Circumpolar Current zonal flow across the Tasmanian gateway during the Oligocene to early Miocene. Global and Planetary Change, 2022, 208, 103718.	1.6	9
6	Deep water inflow slowed offshore expansion of the West Antarctic Ice Sheet at the Eocene-Oligocene transition. Communications Earth & Environment, 2022, 3, .	2.6	3
7	Early Eocene Ocean Meridional Overturning Circulation: The Roles of Atmospheric Forcing and Strait Geometry. Paleoceanography and Paleoclimatology, 2022, 37, .	1.3	11
8	A deep Tasman outflow of Pacific waters during the last glacial period. Nature Communications, 2022, 13, .	5.8	4
9	Global continental and marine detrital ÎµNd: An updated compilation for use in understanding marine Nd cycling. Chemical Geology, 2021, 567, 120119.	1.4	30
10	Cold-water corals as archives of seawater Zn and Cu isotopes. Chemical Geology, 2021, 578, 120304.	1.4	10
11	A large West Antarctic Ice Sheet explains early Neogene sea-level amplitude. Nature, 2021, 600, 450-455.	13.7	21
12	Evaluation of Optimized Procedures for High-Precision Lead Isotope Analyses of Seawater by Multiple Collector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2020, 92, 11232-11241.	3.2	8
13	Particleâ€“Seawater Interaction of Neodymium in the North Atlantic. ACS Earth and Space Chemistry, 2020, 4, 1700-1717.	1.2	14
14	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. Reviews of Geophysics, 2020, 58, e2019RG000663.	9.0	49
15	Sea-ice control on deglacial lower cell circulation changes recorded by Drake Passage deep-sea corals. Earth and Planetary Science Letters, 2020, 544, 116405.	1.8	12
16	Middle Holocene expansion of Pacific Deep Water into the Southern Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 889-894.	3.3	8
17	Temperate rainforests near the South Pole during peak Cretaceous warmth. Nature, 2020, 580, 81-86.	13.7	69
18	The geochemical and mineralogical fingerprint of West Antarctica's weak underbelly: Pine Island and Thwaites glaciers. Chemical Geology, 2020, 550, 119649.	1.4	10

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19	Late Oligocene-Miocene proto-Antarctic Circumpolar Current dynamics off the Wilkes Land margin, East Antarctica. Global and Planetary Change, 2020, 191, 103221.	1.6	20
20	Corrigendum to â€œIsotopic evidence for complex biogeochemical cycling of Cd in the eastern tropical South Pacificâ€•[Earth Planet. Sci. Lett. 512 (2019) 134â€“146]. Earth and Planetary Science Letters, 2019, 524, 115752.	1.8	0
21	Temporal distribution and diversity of cold-water corals in the southwest Indian Ocean over the past 25,000 years. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 149, 103049.	0.6	5
22	Isotopic evidence for complex biogeochemical cycling of Cd in the eastern tropical South Pacific. Earth and Planetary Science Letters, 2019, 512, 134-146.	1.8	32
23	Elevated geothermal surface heat flow in the Amundsen Sea Embayment, West Antarctica. Earth and Planetary Science Letters, 2019, 506, 530-539.	1.8	9
24	Export of nutrient rich Northern Component Water preceded early Oligocene Antarctic glaciation. Nature Geoscience, 2018, 11, 190-196.	5.4	67
25	Southern Ocean warming and Wilkes Land ice sheet retreat during the mid-Miocene. Nature Communications, 2018, 9, 317.	5.8	80
26	Geochemical fingerprints of glacially eroded bedrock from West Antarctica: Detrital thermochronology, radiogenic isotope systematics and trace element geochemistry in Late Holocene glacial-marine sediments. Earth-Science Reviews, 2018, 182, 204-232.	4.0	30
27	The distribution of lead concentrations and isotope compositions in the eastern Tropical Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2018, 225, 36-51.	1.6	21
28	Discovering the Oceanâ€™s Past through Geochemistry. Elements, 2018, 14, 397-402.	0.5	8
29	Suspected meteorite fragments in marine sediments from East Antarctica. Antarctic Science, 2018, 30, 307-321.	0.5	1
30	The Neodymium Isotope Fingerprint of AdÃ©lie Coast Bottom Water. Geophysical Research Letters, 2018, 45, 11,247.	1.5	16
31	Ice loss from the East Antarctic Ice Sheet during late Pleistocene interglacials. Nature, 2018, 561, 383-386.	13.7	76
32	Pliocene deglacial event timelines and the biogeochemical response offshore Wilkes Subglacial Basin, East Antarctica. Earth and Planetary Science Letters, 2018, 494, 109-116.	1.8	30
33	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	1.4	257
34	New constraints on elemental and Pb and Nd isotope compositions of South American and Southern African aerosol sources to the South Atlantic Ocean. Chemie Der Erde, 2018, 78, 372-384.	0.8	14
35	Neodymium isotopes and concentrations in aragonitic scleractinian cold-water coral skeletons - Modern calibration and evaluation of palaeo-applications. Chemical Geology, 2017, 453, 146-168.	1.4	19
36	Timing and nature of AMOC recovery across Termination 2 and magnitude of deglacial CO2 change. Nature Communications, 2017, 8, 14595.	5.8	57

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37	Lead isotopes in deep-sea coral skeletons: Ground-truthing and a first deglacial Southern Ocean record. Geochimica Et Cosmochimica Acta, 2017, 204, 350-374.	1.6	7
38	Glacial erosion of East Antarctica in the Pliocene: A comparative study of multiple marine sediment provenance tracers. Chemical Geology, 2017, 466, 199-218.	1.4	26
39	Antarctic climate, Southern Ocean circulation patterns, and deep water formation during the Eocene. Paleoceanography, 2017, 32, 674-691.	3.0	33
40	The Cd isotope composition of atmospheric aerosols from the Tropical Atlantic Ocean. Geophysical Research Letters, 2017, 44, 2932-2940.	1.5	32
41	Evidence for a dynamic East Antarctic ice sheet during the mid-Miocene climate transition. Earth and Planetary Science Letters, 2017, 478, 1-13.	1.8	40
42	MeBo70 Seabed Drilling on a Polar Continental Shelf: Operational Report and Lessons From Drilling in the Amundsen Sea Embayment of West Antarctica. Geochemistry, Geophysics, Geosystems, 2017, 18, 4235-4250.	1.0	9
43	Return of naturally sourced Pb to Atlantic surface waters. Nature Communications, 2016, 7, 12921.	5.8	47
44	Neodymium in the oceans: a global database, a regional comparison and implications for palaeoceanographic research. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150293.	1.6	85
45	Robustness of fossil fish teeth for seawater neodymium isotope reconstructions under variable redox conditions in an ancient shallow marine setting. Geochemistry, Geophysics, Geosystems, 2016, 17, 679-698.	1.0	28
46	Neodymium isotope analyses after combined extraction of actinide and lanthanide elements from seawater and deepâ€sea coral aragonite. Geochemistry, Geophysics, Geosystems, 2016, 17, 232-240.	1.0	11
47	Neodymium isotopic composition and concentration in the western North Atlantic Ocean: Results from the GEOTRACES GA02 section. Geochimica Et Cosmochimica Acta, 2016, 177, 1-29.	1.6	117
48	Improvements in Cd stable isotope analysis achieved through use of liquidâ€“liquid extraction to remove organic residues from Cd separates obtained by extraction chromatography. Journal of Analytical Atomic Spectrometry, 2016, 31, 319-327.	1.6	34
49	Tracing the Agulhas leakage with lead isotopes. Geophysical Research Letters, 2015, 42, 8515-8521.	1.5	18
50	Geochemical evidence for intermediate water circulation in the westernmost Mediterranean over the last 20kyrBP and its impact on the Mediterranean Outflow. Global and Planetary Change, 2015, 135, 38-46.	1.6	29
51	Geology of the Wilkes land sub-basin and stability of the East Antarctic Ice Sheet: Insights from rock magnetism at IODP Site U1361. Earth and Planetary Science Letters, 2015, 412, 61-69.	1.8	12
52	Repeated advance and retreat of the East Antarctic Ice Sheet on the continental shelf during the early Pliocene warm period. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 422, 65-84.	1.0	20
53	Comment on â€œThe isotopic composition of cadmium in the water column of the South China Seaâ€• Geochimica Et Cosmochimica Acta, 2014, 134, 335-338.	1.6	5
54	The geochemistry of deep-sea coral skeletons: A review of vital effects and applications for palaeoceanography. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 99, 184-198.	0.6	95

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55	Global ocean conveyor lowers extinction risk in the deep sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 88, 8-16.	0.6	50
56	Orbital forcing of the East Antarctic ice sheet during the Pliocene and Early Pleistocene. Nature Geoscience, 2014, 7, 841-847.	5.4	121
57	A comparison of detrital Uâ€“Pb zircon, 40Ar/39Ar hornblende, 40Ar/39Ar biotite ages in marine sediments off East Antarctica: Implications for the geology of subglacial terrains and provenance studies. Earth-Science Reviews, 2014, 138, 156-178.	4.0	44
58	Measurement of fossil deep-sea coral Nd isotopic compositions and concentrations by TIMS as NdO+, with evaluation of cleaning protocols. Chemical Geology, 2014, 374-375, 128-140.	1.4	26
59	Temporal and spatial distributions of cold-water corals in the Drake Passage: Insights from the last 35,000 years. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 99, 237-248.	0.6	36
60	Dynamic intermediate ocean circulation in the North Atlantic during Heinrich Stadial 1: A radiocarbon and neodymium isotope perspective. Paleoceanography, 2014, 29, 1072-1093.	3.0	41
61	Sea surface temperature control on the distribution of far-traveled Southern Ocean ice-rafted detritus during the Pliocene. Paleoceanography, 2014, 29, 533-548.	3.0	36
62	Sedimentology of lower Pliocene to Upper Pleistocene diamictons from IODP Site U1358, Wilkes Land margin, and implications for East Antarctic Ice Sheet dynamics. Antarctic Science, 2014, 26, 183-192.	0.5	16
63	Dynamic behaviour of the East Antarctic ice sheet during Pliocene warmth. Nature Geoscience, 2013, 6, 765-769.	5.4	219
64	Isotopic analysis of Cd in the mixing zone of Siberian rivers with the Arctic Oceanâ€”New constraints on marine Cd cycling and the isotope composition of riverine Cd. Earth and Planetary Science Letters, 2013, 361, 64-73.	1.8	57
65	Early Eocene to middle Miocene cooling and aridification of East Antarctica. Geochemistry, Geophysics, Geosystems, 2013, 14, 1399-1410.	1.0	52
66	Relative sea-level rise around East Antarctica during Oligocene glaciation. Nature Geoscience, 2013, 6, 380-384.	5.4	63
67	Evidence of silicic acid leakage to the tropical Atlantic via Antarctic Intermediate Water during Marine Isotope Stage 4. Paleoceanography, 2013, 28, 307-318.	3.0	20
68	Linking process, dimension, texture, and geochemistry in dolomite geobodies: A case study from Wadi Mistal (northern Oman). AAPG Bulletin, 2013, 97, 1181-1207.	0.7	29
69	Reorganization of Southern Ocean Plankton Ecosystem at the Onset of Antarctic Glaciation. Science, 2013, 340, 341-344.	6.0	97
70	Eocene cooling linked to early flow across the Tasmanian Gateway. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9645-9650.	3.3	204
71	GEOTRACES intercalibration of neodymium isotopes and rare earth element concentrations in seawater and suspended particles. Part 1: reproducibility of results for the international intercomparison. Limnology and Oceanography: Methods, 2012, 10, 234-251.	1.0	119
72	GEOTRACES intercalibration of neodymium isotopes and rare earth element concentrations in seawater and suspended particles. Part 2: Systematic tests and baseline profiles. Limnology and Oceanography: Methods, 2012, 10, 252-269.	1.0	54

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73	Chronostratigraphic framework for the IODP Expedition 318 cores from the Wilkes Land Margin: Constraints for paleoceanographic reconstruction. Paleoceanography, 2012, 27, .	3.0	72
74	Persistent near-tropical warmth on the Antarctic continent during the early Eocene epoch. Nature, 2012, 488, 73-77.	13.7	266
75	Characterizing the sediment provenance of East Antarctica's weak underbelly: The Aurora and Wilkes subâ€glacial basins. Paleoceanography, 2011, 26, .	3.0	34
76	Continental weathering through the onset of Antarctic glaciation. Geology, 2011, 39, 415-416.	2.0	4
77	Extremely low longâ€term erosion rates around the Gamburtsev Mountains in interior East Antarctica. Geophysical Research Letters, 2010, 37, .	1.5	46
78	Deep-sea coral aragonite as a recorder for the neodymium isotopic composition of seawater. Geochimica Et Cosmochimica Acta, 2010, 74, 6014-6032.	1.6	63
79	Evidence for iceberg armadas from East Antarctica in the Southern Ocean during the late Miocene and early Pliocene. Earth and Planetary Science Letters, 2010, 290, 351-361.	1.8	90
80	Southern Ocean evidence for reduced export of North Atlantic Deep Water during Heinrich event 1. Geology, 2009, 37, 195-198.	2.0	63
81	New constraints on the Pb and Nd isotopic evolution of NE Atlantic water masses. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	27
82	Modeling the distribution of Nd isotopes in the oceans using an ocean general circulation model. Earth and Planetary Science Letters, 2008, 272, 610-619.	1.8	78
83	Towards explaining the Nd paradox using reversible scavenging in an ocean general circulation model. Earth and Planetary Science Letters, 2008, 274, 448-461.	1.8	164
84	Evidence against a young volcanic origin of the Gamburtsev Subglacial Mountains, Antarctica. Geophysical Research Letters, 2008, 35, .	1.5	42
85	Global neodymiumâ€“hafnium isotope systematics â€” revisited. Earth and Planetary Science Letters, 2007, 259, 432-441.	1.8	110
86	Reliable extraction of a deepwater trace metal isotope signal from Feâ€“Mn oxyhydroxide coatings of marine sediments. Chemical Geology, 2007, 242, 351-370.	1.4	214
87	40Ar/39Ar ages of hornblende grains and bulk Sm/Nd isotopes of circum-Antarctic glacio-marine sediments: Implications for sediment provenance in the southern ocean. Chemical Geology, 2007, 244, 507-519.	1.4	98
88	Strontium isotope tracing of terrigenous sediment dispersal in the Antarctic Circumpolar Current: Implications for constraining frontal positions. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	36
89	Submarine hydrothermal venting related to volcanism in the Lesser Antilles: Evidence from ferromanganese precipitates. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	25
90	Radiogenic isotope fingerprint of Wilkes Landâ€“AdÃ©lie Coast Bottom Water in the circum-Antarctic Ocean. Geophysical Research Letters, 2006, 33, .	1.5	24

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91	Temporal stability of the neodymium isotope signature of the Holocene to glacial North Atlantic. Paleoceanography, 2006, 21, .	3.0	72
92	Nd and Pb isotope evolution of deep water masses in the eastern Indian Ocean during the past 33 Myr. Chemical Geology, 2006, 226, 264-279.	1.4	26
93	Deep and bottom water export from the Southern Ocean to the Pacific over the past 38 million years. Paleoceanography, 2004, 19, n/a-n/a.	3.0	72
94	New constraints on the sources and behavior of neodymium and hafnium in seawater from Pacific Ocean ferromanganese crusts. Geochimica Et Cosmochimica Acta, 2004, 68, 3827-3843.	1.6	113
95	Tracing the history of submarine hydrothermal inputs and the significance of hydrothermal hafnium for the seawater budgetâ€"a combined Pbâ€"Hfâ€"Nd isotope approach. Earth and Planetary Science Letters, 2004, 222, 259-273.	1.8	50
96	Lower crustal melting and the role of open-system processes in the genesis of syn-orogenic quartz dioriteâ€"graniteâ€"leucogranite associations: constraints from Srâ€"Ndâ€"O isotopes from the Bandombaai Complex, Namibia. Lithos, 2003, 67, 205-226.	0.6	81
97	Evolution of deepwater mixing and weathering inputs in the central Atlantic Ocean over the past 33 Myr. Paleoceanography, 2003, 18, n/a-n/a.	3.0	17
98	Lead isotopes in North Pacific deep water â€" implications for past changes in input sources and circulation patterns. Earth and Planetary Science Letters, 2003, 209, 149-164.	1.8	44
99	Glacial weathering and the hafnium isotope composition of seawater. Earth and Planetary Science Letters, 2002, 198, 167-175.	1.8	42
100	Glacial weathering and the hafnium isotope composition of seawater. Earth and Planetary Science Letters, 2002, 201, 639-647.	1.8	42
101	Expedition 374 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	11
102	Expedition 374 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	14
103	Site U1522. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	3
104	Site U1524. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
105	Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. Scientific Drilling, 0, 24, 61-70.	1.0	2
106	Site U1521. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
107	Site U1525. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	3
108	Site U1523. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	6