

# Tilo von Dobeneck

## List of Publications by Year in descending order

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43  
papers

1,773  
citations

361413

20  
h-index

289244

40  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fossil bacterial magnetite in deep-sea sediments from the South Atlantic Ocean. <i>Nature</i> , 1986, 320, 611-615.	27.8	347
2	Sahel megadroughts triggered by glacial slowdowns of Atlantic meridional overturning. <i>Paleoceanography</i> , 2008, 23, .	3.0	213
3	The Mid-Pleistocene climate transition as documented in the deep South Atlantic Ocean: initiation, interim state and terminal event. <i>Earth and Planetary Science Letters</i> , 2000, 179, 539-549.	4.4	138
4	Rock magnetic identification and geochemical process models of greigite formation in Quaternary marine sediments from the Gulf of Mexico (IODP Hole U1319A). <i>Earth and Planetary Science Letters</i> , 2008, 275, 233-245.	4.4	100
5	Millennial-scale northwest African droughts related to Heinrich events and Dansgaard-Oeschger cycles: Evidence in marine sediments from offshore Senegal. <i>Paleoceanography</i> , 2009, 24, .	3.0	84
6	Towards the identification of siderite, rhodochrosite, and vivianite in sediments by their low-temperature magnetic properties. <i>Physics and Chemistry of the Earth</i> , 2003, 28, 669-679.	2.9	83
7	A lock-in model for the complex Matuyama-Brunhes boundary record of the loess/palaeosol sequence at Lingtai (Central Chinese Loess Plateau). <i>Geophysical Journal International</i> , 2003, 155, 350-366.	2.4	71
8	A systematic analysis of natural magnetic mineral assemblages based on modelling hysteresis loops with coercivity-related hyperbolic basis functions. <i>Geophysical Journal International</i> , 1996, 124, 675-694.	2.4	60
9	Cyclic magnetite dissolution in Pleistocene sediments of the abyssal northwest Pacific Ocean: Evidence for glacial oxygen depletion and carbon trapping. <i>Paleoceanography</i> , 2016, 31, 600-624.	3.0	53
10	Isothermal magnetization of samples with stable Preisach function: A survey of hysteresis, remanence, and rock magnetic parameters. <i>Journal of Geophysical Research</i> , 1997, 102, 17659-17677.	3.3	47
11	Using non-negative matrix factorization in the unmixing of diffuse reflectance spectra. <i>Marine Geology</i> , 2007, 241, 63-78.	2.1	45
12	Interaction of the South American Monsoon System and the Southern Westerly Wind Belt during the last 14kyr. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 374, 28-40.	2.3	45
13	Depositional provinces, dispersal, and origin of terrigenous sediments along the SE South American continental margin. <i>Marine Geology</i> , 2015, 363, 261-272.	2.1	44
14	Magnetic characterization of Holocene sedimentation in the South Atlantic. <i>Paleoceanography</i> , 1999, 14, 465-481.	3.0	37
15	Near-surface electromagnetic, rock magnetic, and geochemical fingerprinting of submarine freshwater seepage at Eckernförde Bay (SW Baltic Sea). <i>Geo-Marine Letters</i> , 2011, 31, 123-140.	1.1	34
16	Signatures and significance of aeolian, fluvial, bacterial and diagenetic magnetic mineral fractions in Late Quaternary marine sediments off Gambia, NW Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	32
17	Control of sediment supply, palaeoceanography and morphology on late Quaternary sediment dynamics at the Galician continental slope. <i>Geo-Marine Letters</i> , 2012, 32, 313-335.	1.1	29
18	Magnetic petrology of equatorial Atlantic sediments: Electron microscopy results and their implications for environmental magnetic interpretation. <i>Paleoceanography</i> , 2007, 22, .	3.0	28

#	ARTICLE	IF	CITATIONS
19	Mapping the magnetic susceptibility and electric conductivity of marine surficial sediments by benthic EM profiling. <i>Geophysics</i> , 2012, 77, E43-E56.	2.6	26
20	Low-temperature magnetic properties of rhodochrosite (MnCO <sub>3</sub> ). <i>Physics of the Earth and Planetary Interiors</i> , 2006, 154, 234-242.	1.9	21
21	Terrigenous Flux in the Rio Grande Rise Area during the Past 1500 ka: Evidence of Deepwater Advection or Rapid Response to Continental Rainfall Patterns?. <i>Paleoceanography</i> , 1999, 14, 84-95.	3.0	20
22	Multiproxy characterization and budgeting of terrigenous endmembers at the NW African continental margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	20
23	Identification of magnetic Fe-Ti oxides in marine sediments by electron backscatter diffraction in scanning electron microscopy. <i>Geophysical Journal International</i> , 2007, 170, 545-555.	2.4	19
24	Low-temperature partial magnetic self-reversal in marine sediments by magnetostatic interaction of titanomagnetite and titanohematite intergrowths. <i>Geophysical Journal International</i> , 2007, 170, 1067-1075.	2.4	19
25	Tracking provenance change during the late Miocene in the eastern Mediterranean using geochemical and environmental magnetic parameters. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	19
26	Millennial-scale precipitation changes over Central Africa during the late Quaternary and Holocene: evidence in sediments from the Gulf of Guinea. <i>Journal of Quaternary Science</i> , 2010, 25, 267-279.	2.1	19
27	How environmental magnetism can enhance the interpretational value of grain-size analysis: A time-slice study on sediment export to the NW African margin in Heinrich Stadial 1 and Mid Holocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 406, 33-48.	2.3	16
28	Magnetic mineral inventory of equatorial Atlantic Ocean marine sediments off Senegal-glacial and interglacial contrast. <i>Geophysical Journal International</i> , 2010, 183, 163-177.	2.4	15
29	Formation of magnetite-enriched zones in and offshore of a mesotidal estuarine lagoon: An environmental magnetic study of Tauranga Harbour and Bay of Plenty, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	15
30	Does lithology influence relative paleointensity records? a statistical analysis on South Atlantic pelagic sediments. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 147, 285-296.	1.9	14
31	Mapping seafloor massive sulfides with the Golden Eye frequency-domain EM profiler. <i>First Break</i> , 2018, 36, 61-67.	0.4	14
32	Sedimentary and rock magnetic signatures and event scenarios of deglacial outburst floods from the Laurentian Channel Ice Stream. <i>Quaternary Science Reviews</i> , 2018, 186, 27-46.	3.0	12
33	Sediment dynamics of an artificially deepened mesotidal coastal lagoon: An environmental magnetic investigation of Tauranga Harbour, New Zealand. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 194, 240-251.	2.1	7
34	Lithofacies distribution and sediment dynamics on a storm-dominated shelf from combined photographic, acoustic and sedimentological profiling methods (Bay of Plenty, New Zealand). <i>Marine Geology</i> , 2016, 376, 158-174.	2.1	6
35	Magnetic mineral and sediment porosity distribution on a storm-dominated shelf investigated by benthic electromagnetic profiling (Bay of Plenty, New Zealand). <i>Marine Geology</i> , 2017, 383, 78-98.	2.1	6
36	Determination of grain-size characteristics from electromagnetic seabed mapping data: A NW Iberian shelf study. <i>Continental Shelf Research</i> , 2017, 140, 75-83.	1.8	3

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37	Compositional changes in deglacial red mud event beds off the Laurentian Channel reveal source mixing, grain-size partitioning and ice retreat. <i>Quaternary Science Reviews</i> , 2019, 215, 98-115.	3.0	3
38	Ground Magnetic Surveying and Susceptibility Mapping Across Weathered Basalt Dikes Reveal Soil Creep and Pedoturbation. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	3
39	Dating North Pacific Abyssal Sediments by Geomagnetic Paleointensity: Implications of Magnetization Carriers, Plio-Pleistocene Climate Change, and Benthic Redox Conditions. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	2
40	The Termination of the Olduvai Subchron at Lingtai, Chinese Loess Plateau: Geomagnetic Field Behavior or Complex Remanence Acquisition?. , 2011, , 235-245.		2
41	Data report: natural remanent magnetization of IODP Holes U1319A, U1320A, U1322B, and U1324B and magnetic carrier identification by scanning electron microscopy. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	1
42	Impact of Upward Oxygen Diffusion From the Oceanic Crust on the Magnetostratigraphy and Iron Biomineralization of East Pacific Ridge-Flank Sediments. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1
43	Formation of coast-parallel heavy mineral enrichments investigated by exploratory numerical modelling. <i>Bulletin of the Geological Society of America</i> , 2018, , .	3.3	0