Olaf Dellwig

List of Publications by Year
in descending order

83	3,217	117625	168389
papers	citations	34 h-index	53 g-index

84	84	84	3345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new particulate Mnâ€“Feâ€“P-shuttle at the redoxcline of anoxic basins. Geochimica Et Cosmochimica Acta, 2010, 74, 7100-7115.	3.9	215
2	Molybdenum isotope fractionation in pelagic euxinia: Evidence from the modern Black and Baltic Seas. Chemical Geology, 2011, 289, 1-11.	3.3	174
3	Cycling of trace metals (Mn, Fe, Mo, U, V, Cr) in deep pore waters of intertidal flat sediments. Geochimica Et Cosmochimica Acta, 2008, 72, 2822-2840.	3.9	139
4	Uranium and molybdenum isotope systematics in modern euxinic basins: Case studies from the central Baltic Sea and the Kyllaren fjord (Norway). Chemical Geology, 2015, 396, 182-195.	3.3	131
5	Tubeâ€dwelling invertebrates: tiny ecosystem engineers have large effects in lake ecosystems. Ecological Monographs, 2015, 85, 333-351.	5.4	122
6	Radium-based pore water fluxes of silica, alkalinity, manganese, DOC, and uranium: A decade of studies in the German Wadden Sea. Geochimica Et Cosmochimica Acta, 2011, 75, 6535-6555.	3.9	99
7	Non-conservative behaviour of molybdenum in coastal waters: Coupling geochemical, biological, and sedimentological processes. Geochimica Et Cosmochimica Acta, 2007, 71, 2745-2761.	3.9	89
8	Trace metals in Holocene coastal peats and their relation to pyrite formation (NW Germany). Chemical Geology, 2002, 182, 423-442.	3.3	75
9	Spatial and seasonal variations of sulphate, dissolved organic carbon, and nutrients in deep pore waters of intertidal flat sediments. Estuarine, Coastal and Shelf Science, 2008, 79, 307-316.	2.1	73
10	Physical and biogeochemical controls of microaggregate dynamics in a tidally affected coastal ecosystem. Limnology and Oceanography, 2006, 51, 847-859.	3.1	71
11	Lead in sediments and suspended particulate matter of the German Bight: natural versus anthropogenic origin. Applied Geochemistry, 2002, 17, 621-632.	3.0	64
12	Dissolved reactive manganese at pelagic redoxclines (part II): Hydrodynamic conditions for accumulation. Journal of Marine Systems, 2012, 90, 31-41.	2.1	62
13	Correlated molybdenum and uranium isotope signatures in modern anoxic sediments: Implications for their use as paleo-redox proxy. Geochimica Et Cosmochimica Acta, 2020, 270, 449-474.	3.9	62
14	Methane in the southern North Sea: Sources, spatial distribution and budgets. Estuarine, Coastal and Shelf Science, 2009, 81, 445-456.	2.1	59
15	Effect of large magnetotactic bacteria with polyphosphate inclusions on the phosphate profile of the suboxic zone in the Black Sea. ISME Journal, 2019, 13, 1198-1208.	9.8	59
16	Massive Mn carbonate formation in the Landsort Deep (Baltic Sea): Hydrographic conditions, temporal succession, and Mn budget calculations. Marine Geology, 2018, 395, 260-270.	2.1	56
17	Intense pyrite formation under low-sulfate conditions in the Achterwasser lagoon, SW Baltic Sea. Geochimica Et Cosmochimica Acta, 2005, 69, 3619-3630.	3.9	54
18	A comparative study of manganese dynamics in the water column and sediments of intertidal systems of the North Sea. Estuarine, Coastal and Shelf Science, 2012, 100, 3-17.	2.1	54

#	Article	IF	Citations
19	Nutrient dynamics in a back barrier tidal basin of the Southern North Sea: Time-series, model simulations, and budget estimates. Journal of Sea Research, 2010, 64, 199-212.	1.6	53
20	Dissimilar behaviors of the geochemical twins W and Mo in hypoxic-euxinic marine basins. Earth-Science Reviews, 2019, 193, 1-23.	9.1	53
21	Sources and fate of manganese in a tidal basin of the German Wadden Sea. Journal of Sea Research, 2007, 57, 1-18.	1.6	52
22	A bacterial isolate from the Black Sea oxidizes sulfide with manganese(IV) oxide. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12153-12155.	7.1	52
23	Trace metal dynamics in the water column and pore waters in a temperate tidal system: response to the fate of algae-derived organic matter. Ocean Dynamics, 2009, 59, 333-350.	2.2	51
24	Sulphur and iron geochemistry of Holocene coastal peats (NW Germany): a tool for palaeoenvironmental reconstruction. Palaeogeography, Palaeoclimatology, Palaeoecology, 2001, 167, 359-379.	2.3	50
25	A 1500-year multiproxy record of coastal hypoxia from the northern Baltic Sea indicates unprecedented deoxygenation over the 20th century. Biogeosciences, 2018, 15, 3975-4001.	3.3	45
26	Pelagic molybdenum concentration anomalies and the impact of sediment resuspension on the molybdenum budget in two tidal systems of the North Sea. Geochimica Et Cosmochimica Acta, 2013, 119, 198-211.	3.9	44
27	Benthic Bacterial Community Composition in the Oligohaline-Marine Transition of Surface Sediments in the Baltic Sea Based on rRNA Analysis. Frontiers in Microbiology, 2018, 9, 236.	3.5	44
28	Submarine groundwater discharge to the Baltic coastal zone: Impacts on the meiofaunal community. Journal of Marine Systems, 2014, 129, 118-126.	2.1	42
29	Bacterial communities potentially involved in iron-cycling in Baltic Sea and North Sea sediments revealed by pyrosequencing. FEMS Microbiology Ecology, 2016, 92, fiw054.	2.7	42
30	A novel time-series station in the Wadden Sea (NW Germany): First results on continuous nutrient and methane measurements. Marine Chemistry, 2007, 107, 411-421.	2.3	40
31	Black Sea temperature response to glacial millennialâ€scale climate variability. Geophysical Research Letters, 2015, 42, 8147-8154.	4.0	40
32	The indicative meaning of diatoms, pollen and botanical macro fossils for the reconstruction of palaeoenvironments and sea-level fluctuations along the coast of Lower Saxony; Germany. Quaternary International, 2004, 112, 71-87.	1.5	38
33	Sulphate, dissolved organic carbon, nutrients and terminal metabolic products in deep pore waters of an intertidal flat. Biogeochemistry, 2008, 89, 221-238.	3.5	38
34	Commercial African Catfish (Clarias gariepinus) Recirculating Aquaculture Systems: Assessment of Element and Energy Pathways with Special Focus on the Phosphorus Cycle. Sustainability, 2018, 10, 1805.	3.2	38
35	In situ pore water sampling in deep intertidal flat sediments. Limnology and Oceanography: Methods, 2007, 5, 136-144.	2.0	37
36	Contamination of arctic Fjord sediments by Pbâ€“Zn mining at Maarmorilik in central West Greenland. Marine Pollution Bulletin, 2010, 60, 1065-1073.	5.0	36

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37	High-resolution Reconstruction of a Holocene Coastal Sequence (NW Germany) Using Inorganic Geochemical Data and Diatom Inventories. Estuarine, Coastal and Shelf Science, 1999, 48, 617-633.	2.1	34
38	Sources and spatial distribution of heavy metals in scleractinian coral tissues and sediments from the Bocas del Toro Archipelago, Panama. Environmental Monitoring and Assessment, 2013, 185, 9089-9099.	2.7	34
39	Meltwater events and the Mediterranean reconnection at the Saalianâ€“Eemian transition in the Black Sea. Earth and Planetary Science Letters, 2014, 404, 124-135.	4.4	34
40	Trace metal geochemistry of organic carbon-rich watercourses draining the NW German coast. Estuarine, Coastal and Shelf Science, 2012, 104-105, 66-79.	2.1	33
41	Redox evolution during Eemian and Holocene sapropel formation in the Black Sea. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 489, 249-260.	2.3	32
42	Impact of the Major Baltic Inflow in 2014 on Manganese Cycling in the Gotland Deep (Baltic Sea). Frontiers in Marine Science, 2018, 5, .	2.5	31
43	Midâ€•to late Holocene environmental separation of the northern and central Baltic Sea basins in response to differential land uplift. Boreas, 2017, 46, 111-128.	2.4	30
44	Northern hemisphere climate control on the environmental dynamics in the glacial Black Sea â€œLakeâ€• Quaternary Science Reviews, 2016, 135, 41-53.	3.0	27
45	Biogeochemical impact of submarine ground water discharge on coastal surface sands of the southern Baltic Sea. Estuarine, Coastal and Shelf Science, 2017, 189, 131-142.	2.1	27
46	Distributions and characteristics of dissolved organic matter in temperate coastal waters (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	26
47	Dissolved reactive manganese at pelagic redoxclines (part I): A method for determination based on field experiments. Journal of Marine Systems, 2012, 90, 23-30.	2.1	26
48	Regional Differences of Hydrographical and Sedimentological Properties in the Beibu Gulf, South China Sea. Journal of Coastal Research, 2013, 66, 49-71.	0.3	26
49	Season-dependent effects of ZnO nanoparticles and elevated temperature on bioenergetics of the blue mussel Mytilus edulis. Chemosphere, 2021, 263, 127780.	8.2	25
50	Interactive effects of salinity variation and exposure to ZnO nanoparticles on the innate immune system of a sentinel marine bivalve, Mytilus edulis. Science of the Total Environment, 2020, 712, 136473.	8.0	23
51	Sedimentology and geochemistry of an exceptionally preserved last interglacial sapropel S5 in the Levantine Basin (Mediterranean Sea). Marine Geology, 2012, 291-294, 34-48.	2.1	22
52	70-Year Anthropogenic Uranium Imprints of Nuclear Activities in Baltic Sea Sediments. Environmental Science & Technology, 2021, 55, 8918-8927.	10.0	22
53	Geochemical and microfacies characterization of a Holocene depositional sequence in northwest Germany. Organic Geochemistry, 1998, 29, 1687-1699.	1.8	21
54	Major hydrological shifts in the Black Sea â€œLakeâ€•in response to ice sheet collapses during MIS 6 (130â€“184 ka BP). Quaternary Science Reviews, 2019, 219, 126-144.	3.0	20

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55	Stationary sinking velocity of authigenic manganese oxides at pelagic redoxclines. Marine Chemistry, 2014, 160, 67-74.	2.3	19
56	Geochemical focusing and sequestration of manganese during eutrophication of Lake Stechlin (NE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.5	19
57	Geochemistry of salt marsh sediments deposited during simulated sea-level rise and consequences for recent and Holocene coastal development of NW Germany. Geo-Marine Letters, 2012, 32, 49-60.	1.1	15
58	Redox control on the tungsten isotope composition of seawater. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
59	BaMn[CO3]2 â€“ a previously unrecognized double carbonate in low-temperature environments: Structural, spectroscopic, and textural tools for future identification. Chemie Der Erde, 2012, 72, 85-89.	2.0	14
60	Anatomy of the Major Baltic Inflow in 2014: Impact of manganese and iron shuttling on phosphorus and trace metals in the Gotland Basin, Baltic Sea. Continental Shelf Research, 2021, 223, 104449.	1.8	14
61	Spatial and seasonal phosphorus dynamics in a eutrophic estuary of the southern Baltic Sea. Estuarine, Coastal and Shelf Science, 2020, 233, 106532.	2.1	13
62	Stable W and Mo isotopic evidence for increasing redox-potentials from the Paleoarchean towards the Paleoproterozoic deep ocean. Geochimica Et Cosmochimica Acta, 2021, 309, 366-387.	3.9	13
63	Geochemistry of Holocene salt marsh and tidal flat sediments on a barrier island in the southern North Sea (Langeoog, Northâ€west Germany). Sedimentology, 2012, 59, 337-355.	3.1	12
64	In situ determination of iron(II) in the anoxic zone of the central Baltic Sea using ferene as spectrophotometric reagent. Marine Chemistry, 2012, 130-131, 21-27.	2.3	12
65	Electrode measurements of the oxidation reduction potential in the Gotland Deep using a moored profiling instrumentation. Estuarine, Coastal and Shelf Science, 2014, 141, 26-36.	2.1	12
66	A Multi-Tracer Study of Fresh Water Sources for a Temperate Urbanized Coastal Bay (Southern Baltic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.5	12
67	Spatio-temporal dynamics of suspended matter properties and bacterial communities in the back-barrier tidal flat system of Spiekeroog Island. Ocean Dynamics, 2009, 59, 277-290.	2.2	11
68	Biogeochemical cycles. , 2017, , 87-122.		9
69	Dynamic climate-driven controls on the deposition of the Kimmeridge Clay Formation in the Cleveland Basin, Yorkshire, UK. Climate of the Past, 2019, 15, 1581-1601.	3.4	9
70	The stable tungsten isotope composition of sapropels and manganese-rich sediments from the Baltic Sea. Earth and Planetary Science Letters, 2022, 578, 117303.	4.4	8
71	A Multi-Pumping Flow System for In Situ Measurements of Dissolved Manganese in Aquatic Systems. Sensors, 2016, 16, 2027.	3.8	7
72	Deepâ€“sea fluxes of barium and lithogenic trace elements in the subtropical northeast Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 122, 72-80.	1.4	7

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73	Human influence on the continental Si budget during the last 4300 years: Î´30Sidiatom in varved lake sediments (Tiefer See, NE Germany). Quaternary Science Reviews, 2021, 258, 106869.	3.0	7
74	Stable tungsten isotope systematics on the Earthâ€™s surface. Geochimica Et Cosmochimica Acta, 2022, 322, 227-243.	3.9	7
75	Manganese dynamics in tidal basins of the Wadden Sea: Spatial/seasonal patterns and budget estimates. Marine Chemistry, 2020, 225, 103847.	2.3	6
76	Machine Learning Predicts the Presence of 2,4,6-Trinitrotoluene in Sediments of a Baltic Sea Munitions Dumpsite Using Microbial Community Compositions. Frontiers in Microbiology, 2021, 12, 626048.	3.5	6
77	Impact of Eurasian Ice Sheet and North Atlantic Climate Dynamics on Black Sea Temperature Variability During the Penultimate Glacial (MIS 6, 130â€“184 ka BP). Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003882.	2.9	5
78	Anthropogenic 236U and 233U in the Baltic Sea: Distributions, source terms, and budgets. Water Research, 2022, 210, 117987.	11.3	5
79	The invasive diatom Pseudosolenia calcar-avis and specific C25 isoprenoid lipids as a sedimentary time marker in the Black Sea. Geology, 2018, 46, 507-510.	4.4	4
80	Lagged atmospheric circulation response in the Black Sea region to Greenland Interstadial 10. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28649-28654.	7.1	4
81	Element mobility related to rock weathering and soil formation at the westward side of the southernmost Patagonian Andes. Science of the Total Environment, 2022, 817, 152977.	8.0	4
82	Ferruginous groundwaters as a source of P, Fe, and DIC for coastal waters of the southern Baltic Sea: (Isotope) hydrobiogeochemistry and the role of an iron curtain. E3S Web of Conferences, 2018, 54, 00019.	0.5	2
83	Delayed Western Gotland Basin (Baltic Sea) ventilation in response to the onset of a Mid-Holocene climate oscillation. Quaternary Science Reviews, 2021, 273, 107253.	3.0	0