Tom Jilbert

List of Publications by Year
in descending order

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45 papers	2,324 citations	236925 25 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	3058 citing authors

#	Article	IF	Citations
1	Iron-Mediated Anaerobic Oxidation of Methane in Brackish Coastal Sediments. Environmental Science & Technology, 2015, 49, 277-283.	10.0	230
2	Bromine counts from XRF scanning as an estimate of the marine organic carbon content of sediment cores. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	158
3	Hypoxia in the Baltic Sea: Biogeochemical Cycles, Benthic Fauna, and Management. Ambio, 2014, 43, 26-36.	5.5	158
4	Iron and manganese shuttles control the formation of authigenic phosphorus minerals in the euxinic basins of the Baltic Sea. Geochimica Et Cosmochimica Acta, 2013, 107, 155-169.	3.9	143
5	Vivianite is a major sink for phosphorus in methanogenic coastal surface sediments. Geochimica Et Cosmochimica Acta, 2015, 169, 217-235.	3.9	128
6	Sedimentation Pulse in the NE Gulf of Mexico following the 2010 DWH Blowout. PLoS ONE, 2015, 10, e0132341.	2.5	126
7	Coupled Dynamics of Iron and Phosphorus in Sediments of an Oligotrophic Coastal Basin and the Impact of Anaerobic Oxidation of Methane. PLoS ONE, 2013, 8, e62386.	2.5	123
8	Solar forcing of Nile discharge and sapropel S1 formation in the early to middle Holocene eastern Mediterranean. Paleoceanography, 2014, 29, 343-356.	3.0	112
9	Hypoxia Sustains Cyanobacteria Blooms in the Baltic Sea. Environmental Science & Technology, 2014, 48, 2598-2602.	10.0	109
10	Beyond the Fe-P-redox connection: preferential regeneration of phosphorus from organic matter as a key control on Baltic Sea nutrient cycles. Biogeosciences, 2011, 8, 1699-1720.	3.3	106
11	Anaerobic oxidation of methane alters sediment records of sulfur, iron and phosphorus in the Black Sea. Biogeosciences, 2016, 13, 5333-5355.	3.3	69
12	Rapid high-amplitude variability in Baltic Sea hypoxia during the Holocene. Geology, 2013, 41, 1183-1186.	4.4	64
13	Impacts of flocculation on the distribution and diagenesis of iron in boreal estuarine sediments. Biogeosciences, 2018, 15, 1243-1271.	3.3	53
14	Interannual climate variability in the Miocene: High resolution trace element and stable isotope ratios in giant clams. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 306, 75-81.	2.3	50
15	Hypoxiaâ€driven variations in iron and manganese shuttling in the Baltic Sea over the past 8 kyr. Geochemistry, Geophysics, Geosystems, 2015, 16, 3754-3766.	2.5	45
16	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
17	Short-time-scale variability in ventilation and export productivity during the formation of Mediterranean sapropel S1. Paleoceanography, 2010, 25, n/a-n/a.	3.0	43
18	Evidence for active El NiÃ±o Southern Oscillation variability in the Late Miocene greenhouse climate. Geology, 2010, 38, 419-422.	4.4	42

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19	Redox-dependent changes in manganese speciation in Baltic Sea sediments from the Holocene Thermal Maximum: An EXAFS, XANES and LA-ICP-MS study. Chemical Geology, 2014, 370, 49-57.	3.3	40
20	Terrestrial organic matter input drives sedimentary trace metal sequestration in a human-impacted boreal estuary. Science of the Total Environment, 2020, 717, 137047.	8.0	40
21	Preface: Restoration of eutrophic lakes: current practices and future challenges. Hydrobiologia, 2020, 847, 4343-4357.	2.0	36
22	Molybdenum dynamics in sediments of a seasonally-hypoxic coastal marine basin. Chemical Geology, 2017, 466, 627-640.	3.3	33
23	Stable lead (Pb) isotopes and concentrations â€“ A useful independent dating tool for Baltic Sea sediments. Quaternary Geochronology, 2012, 8, 41-45.	1.4	29
24	Glacio-isostatic control on hypoxia in a high-latitude shelf basin. Geology, 2015, 43, 427-430.	4.4	28
25	Influence of electron acceptor availability and microbial community structure on sedimentary methane oxidation in a boreal estuary. Biogeochemistry, 2020, 148, 291-309.	3.5	28
26	Hypoxia in the Holocene Baltic Sea: Comparing modern versus past intervals using sedimentary trace metals. Chemical Geology, 2018, 493, 478-490.	3.3	27
27	Climate-controlled multidecadal variability in North African dust transport to the Mediterranean. Geology, 2010, 38, 19-22.	4.4	26
28	Fluid displacive resin embedding of laminated sediments: preserving trace metals for highâ€resolution paleoclimate investigations. Limnology and Oceanography: Methods, 2008, 6, 16-22.	2.0	25
29	Legacy Effects of Eutrophication on Modern Methane Dynamics in a Boreal Estuary. Estuaries and Coasts, 2020, 43, 189-206.	2.2	25
30	Biogeochemical functioning of the Baltic Sea. Earth System Dynamics, 2022, 13, 633-685.	7.1	22
31	High-resolution line-scan analysis of resin-embedded sediments using laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). Chemical Geology, 2015, 403, 42-51.	3.3	21
32	Evolving coastal character of a Baltic Sea inlet during the Holocene shoreline regression: impact on coastal zone hypoxia. Journal of Paleolimnology, 2016, 55, 319-338.	1.6	21
33	Elemental signature of terrigenous sediment runoff as recorded in coastal salt ponds: US Virgin Islands. Applied Geochemistry, 2015, 63, 573-585.	3.0	18
34	Impacts of a deep reactive layer on sedimentary phosphorus dynamics in a boreal lake recovering from eutrophication. Hydrobiologia, 2020, 847, 4401-4423.	2.0	16
35	Effects of the 2014 major Baltic inflow on methane and nitrous oxide dynamics in the water column of the central Baltic Sea. Earth System Dynamics, 2017, 8, 817-826.	7.1	14
36	Metaschoepite Dissolution in Sediment Column Systemsâ€”Implications for Uranium Speciation and Transport. Environmental Science & Technology, 2019, 53, 9915-9925.	10.0	14

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37	Depth and intensity of the sulfate-methane transition zone control sedimentary molybdenum and uranium sequestration in a eutrophic low-salinity setting. Applied Geochemistry, 2020, 122, 104767.	3.0	11
38	Long-Term Consequences of Water Pumping on the Ecosystem Functioning of Lake SeķÅ¡u, Latvia. Water (Switzerland), 2020, 12, 1459.	2.7	9
39	A biogeochemical approach to evaluate the optimization and effectiveness of hypolimnetic withdrawal. Science of the Total Environment, 2021, 755, 143202.	8.0	9
40	Autochthonous organic matter promotes DNRA and suppresses N2O production in sediments of the coastal Baltic Sea. Estuarine, Coastal and Shelf Science, 2021, 255, 107369.	2.1	8
41	Ironâ€Phosphorus Feedbacks Drive Multidecadal Oscillations in Baltic Sea Hypoxia. Geophysical Research Letters, 2021, 48, e2021GL095908.	4.0	4
42	The role of organic matter and microbial community controlling nitrate reduction under elevated ferrous iron concentrations in boreal lake sediments. Hydrobiologia, 0, , 1.	2.0	4
43	Drought recorded by Baâˆ•Ca in coastal benthic foraminifera. Biogeosciences, 2022, 19, 2523-2535.	3.3	4
44	Human actions were responsible for both initiation and termination of varve preservation in Lake VesijÄrvi, southern Finland. Journal of Paleolimnology, 2021, 66, 207-227.	1.6	3
45	Anthropogenic Inputs of Terrestrial Organic Matter Influence Carbon Loading and Methanogenesis in Coastal Baltic Sea Sediments. Frontiers in Earth Science, 2021, 9, .	1.8	3