

# Klaus Wallmann

## List of Publications by Year in descending order

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144  
papers

10,910  
citations

25423

59  
h-index

39744

98  
g-index

155  
all docs

155  
docs citations

155  
times ranked

8282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas hydrate destabilization: enhanced dewatering, benthic material turnover and large methane plumes at the Cascadia convergent margin. <i>Earth and Planetary Science Letters</i> , 1999, 170, 1-15.	1.8	386
2	Fluid flow, methane fluxes, carbonate precipitation and biogeochemical turnover in gas hydrate-bearing sediments at Hydrate Ridge, Cascadia Margin: numerical modeling and mass balances. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3403-3421.	1.6	329
3	Anaerobic oxidation of methane above gas hydrates at Hydrate Ridge, NE Pacific Ocean. <i>Marine Ecology - Progress Series</i> , 2003, 264, 1-14.	0.9	296
4	The oxygen isotope evolution of seawater: A critical review of a long-standing controversy and an improved geological water cycle model for the past 3.4 billion years. <i>Earth-Science Reviews</i> , 2007, 83, 83-122.	4.0	295
5	Gas hydrate growth, methane transport, and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia margin off Oregon. <i>Earth and Planetary Science Letters</i> , 2004, 226, 225-241.	1.8	264
6	Controls on the cretaceous and cenozoic evolution of seawater composition, atmospheric CO <sub>2</sub> and climate. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3005-3025.	1.6	250
7	Rising Arctic Ocean temperatures cause gas hydrate destabilization and ocean acidification. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	247
8	The Global Inventory of Methane Hydrate in Marine Sediments: A Theoretical Approach. <i>Energies</i> , 2012, 5, 2449-2498.	1.6	240
9	Early diagenesis of redox-sensitive trace metals in the Peru upwelling area – response to ENSO-related oxygen fluctuations in the water column. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7257-7276.	1.6	223
10	Fluid expulsion related to mud extrusion off Costa Rica – A window to the subducting slab. <i>Geology</i> , 2004, 32, 201.	2.0	221
11	Calcium isotope record of Phanerozoic oceans: Implications for chemical evolution of seawater and its causative mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5117-5134.	1.6	211
12	Calculation of the stability and solubility of methane hydrate in seawater. <i>Chemical Geology</i> , 2005, 219, 37-52.	1.4	210
13	Paleoclimates, ocean depth, and the oxygen isotopic composition of seawater. <i>Earth and Planetary Science Letters</i> , 2006, 252, 82-93.	1.8	205
14	Silicate weathering in anoxic marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2895-2918.	1.6	194
15	The geological water cycle and the evolution of marine $\delta^{18}O$ values. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2469-2485.	1.6	189
16	Early diagenetic processes, fluxes, and reaction rates in sediments of the South Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2041-2060.	1.6	184
17	Kinetics of organic matter degradation, microbial methane generation, and gas hydrate formation in anoxic marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3905-3927.	1.6	181
18	Numerical modeling of carbonate crust formation at cold vent sites: significance for fluid and methane budgets and chemosynthetic biological communities. <i>Earth and Planetary Science Letters</i> , 2004, 221, 337-353.	1.8	178

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19	Rising methane gas bubbles form massive hydrate layers at the seafloor. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4335-4345.	1.6	162
20	Hydrogeological system of erosional convergent margins and its influence on tectonics and interplate seismogenesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	159
21	Constraining the marine strontium budget with natural strontium isotope fractionations ( $^{87}\text{Sr}/^{86}\text{Sr}$ ), <i>Tj ETQq1 1 0.784314 rgBT /</i> 2010, 74, 4097-4109.	1.6	154
22	Nucleation of calcium carbonate on bacterial nanoglobules. <i>Geology</i> , 2006, 34, 1017.	2.0	151
23	Dissolution kinetics of biogenic silica from the water column to the sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 439-455.	1.6	147
24	Estimation of the global inventory of methane hydrates in marine sediments using transfer functions. <i>Biogeosciences</i> , 2013, 10, 959-975.	1.3	145
25	Quantifying fluid flow, solute mixing, and biogeochemical turnover at cold vents of the eastern Aleutian subduction zone. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5209-5219.	1.6	143
26	Estimation of the global amount of submarine gas hydrates formed via microbial methane formation based on numerical reaction-transport modeling and a novel parameterization of Holocene sedimentation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4562-4576.	1.6	143
27	Benthic iron and phosphorus fluxes across the Peruvian oxygen minimum zone. <i>Limnology and Oceanography</i> , 2012, 57, 851-867.	1.6	130
28	A revised global estimate of dissolved iron fluxes from marine sediments. <i>Global Biogeochemical Cycles</i> , 2015, 29, 691-707.	1.9	126
29	Fluid venting in the eastern Aleutian Subduction Zone. <i>Journal of Geophysical Research</i> , 1998, 103, 2597-2614.	3.3	123
30	Cretaceous and Cenozoic evolution of seawater composition, atmospheric O <sub>2</sub> and CO <sub>2</sub> : A model perspective. <i>Numerische Mathematik</i> , 2003, 303, 94-148.	0.7	111
31	Atlantic cooling associated with a marine biotic crisis during the mid-Cretaceous period. <i>Nature Geoscience</i> , 2013, 6, 558-561.	5.4	110
32	The Phanerozoic $^{88}/^{86}\text{Sr}$ record of seawater: New constraints on past changes in oceanic carbonate fluxes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 249-265.	1.6	101
33	The effect of dissolved barium on biogeochemical processes at cold seeps. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1735-1748.	1.6	100
34	Feedbacks between oceanic redox states and marine productivity: A model perspective focused on benthic phosphorus cycling. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	98
35	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. <i>Nature Communications</i> , 2018, 9, 83.	5.8	97
36	New procedure for determining reactive Fe(III) and Fe(II) minerals in sediments. <i>Limnology and Oceanography</i> , 1993, 38, 1803-1812.	1.6	96

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37	Fluid venting activity on the Costa Rica margin: new results from authigenic carbonates. <i>International Journal of Earth Sciences</i> , 2004, 93, 596.	0.9	96
38	Distribution, biomass and diversity of benthic foraminifera in relation to sediment geochemistry in the Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 2913-2955.	0.6	94
39	Calcium isotope ( $\delta^{44}\text{Ca}$ ) variations of Neogene planktonic foraminifera. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	94
40	Vodyanitskii mud volcano, Sorokin trough, Black Sea: Geological characterization and quantification of gas bubble streams. <i>Marine and Petroleum Geology</i> , 2009, 26, 1799-1811.	1.5	93
41	Methane discharge into the Black Sea and the global ocean via fluid flow through submarine mud volcanoes. <i>Earth and Planetary Science Letters</i> , 2006, 248, 545-560.	1.8	92
42	Benthic nitrogen cycling traversing the Peruvian oxygen minimum zone. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6094-6111.	1.6	90
43	Iron species determination to investigate early diagenetic reactivity in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 63-72.	1.6	89
44	Bubble-induced porewater mixing: A 3-D model for deep porewater irrigation. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5135-5154.	1.6	89
45	Cold seeps along the main Marmara Fault in the Sea of Marmara (Turkey). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 552-570.	0.6	86
46	Structure and thermal expansion of natural gas clathrate hydrates. <i>Chemical Engineering Science</i> , 2006, 61, 2670-2674.	1.9	85
47	Organic carbon production, mineralisation and preservation on the Peruvian margin. <i>Biogeosciences</i> , 2015, 12, 1537-1559.	1.3	81
48	Stable silicon isotope signatures of marine pore waters – Biogenic opal dissolution versus authigenic clay mineral formation. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 102-117.	1.6	80
49	In situ benthic fluxes from an intermittently active mud volcano at the Costa Rica convergent margin. <i>Earth and Planetary Science Letters</i> , 2005, 235, 79-95.	1.8	78
50	Permian–Triassic mass extinction pulses driven by major marine carbon cycle perturbations. <i>Nature Geoscience</i> , 2020, 13, 745-750.	5.4	78
51	Phosphorus imbalance in the global ocean?. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	75
52	Methane hydrate accumulation in the Mound 11 mud volcano, Costa Rica forearc. <i>Marine Geology</i> , 2005, 216, 83-100.	0.9	74
53	Artifacts in the Determination of Trace Metal Binding Forms in Anoxic Sediments by Sequential Extraction. <i>International Journal of Environmental Analytical Chemistry</i> , 1993, 51, 187-200.	1.8	73
54	Methane-Carbon Flow into the Benthic Food Web at Cold Seeps – A Case Study from the Costa Rica Subduction Zone. <i>PLoS ONE</i> , 2013, 8, e74894.	1.1	70

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55	Quantification of methane emissions at abandoned gas wells in the Central North Sea. <i>Marine and Petroleum Geology</i> , 2015, 68, 848-860.	1.5	69
56	Salty brines on the Mediterranean sea floor. <i>Nature</i> , 1997, 387, 31-32.	13.7	68
57	Fluid expulsion from the Dvurechenskii mud volcano (Black Sea)Part I. Fluid sources and relevance to Li, B, Sr, I and dissolved inorganic nitrogen cycles. <i>Earth and Planetary Science Letters</i> , 2004, 225, 347-363.	1.8	66
58	Silicate weathering in anoxic marine sediment as a requirement for authigenic carbonate burial. <i>Earth-Science Reviews</i> , 2020, 200, 102960.	4.0	65
59	Methane formation at Costa Rica continental margin constraints for gas hydrate inventories and cross-collement fluid flow. <i>Earth and Planetary Science Letters</i> , 2005, 236, 41-60.	1.8	63
60	Simulation of long-term feedbacks from authigenic carbonate crust formation at cold vent sites. <i>Chemical Geology</i> , 2005, 216, 157-174.	1.4	62
61	Numerical modeling of benthic processes in the deep Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 3039-3072.	0.6	61
62	Factors influencing the distribution of epibenthic megafauna across the Peruvian oxygen minimum zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 68, 123-135.	0.6	61
63	Remobilization events involving Cd and Zn from intertidal flat sediments in the elbe estuary during the tidal cycle. <i>Estuarine, Coastal and Shelf Science</i> , 1992, 35, 371-393.	0.9	59
64	Relating sulfate and methane dynamics to geology: Accretionary prism offshore SW Taiwan. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2523-2545.	1.0	57
65	Modeling benthic pelagic nutrient exchange processes and porewater distributions in a seasonally hypoxic sediment: evidence for massive phosphate release by Beggiatoa?. <i>Biogeosciences</i> , 2013, 10, 629-651.	1.3	57
66	Impact of atmospheric CO <sub>2</sub> and galactic cosmic radiation on Phanerozoic climate change and the marine $\delta^{18}O$ record. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	1.0	56
67	Simulating the biogeochemical effects of volcanic CO <sub>2</sub> degassing on the oxygen-state of the deep ocean during the Cenomanian/Turonian Anoxic Event (OAE2). <i>Earth and Planetary Science Letters</i> , 2011, 305, 371-384.	1.8	55
68	Simple transfer functions for calculating benthic fixed nitrogen losses and C:N:P regeneration ratios in global biogeochemical models. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	55
69	Consequences of moderate $\sim 1/425,000$ lasting emission of light CO <sub>2</sub> into the mid-Cretaceous ocean. <i>Earth and Planetary Science Letters</i> , 2007, 259, 200-211.	1.8	52
70	Sources of fluids and gases expelled at cold seeps offshore Georgia, eastern Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3250-3268.	1.6	52
71	Isotopic evidence (He, B, C) for deep fluid and mud mobilization from mud volcanoes in the Caucasus continental collision zone. <i>International Journal of Earth Sciences</i> , 2003, 92, 407-425.	0.9	50
72	Benthic nitrogen fluxes and fractionation of nitrate in the Mauritanian oxygen minimum zone (Eastern Tropical North Atlantic). <i>Geochimica Et Cosmochimica Acta</i> , 2014, 134, 234-256.	1.6	49

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73	Fluid flow through active mud dome Mound Culebra offshore Nicoya Peninsula, Costa Rica: evidence from heat flow surveying. <i>Marine Geology</i> , 2004, 207, 145-157.	0.9	48
74	Rates and regulation of nitrogen cycling in seasonally hypoxic sediments during winter (Boknis Eck,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 14-28.	0.9	47
75	Carbon isotope exchange during anaerobic oxidation of methane (AOM) in sediments of the northeastern South China Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 138-155.	1.6	47
76	Intercalibration of Bruevichâ€™s method to determine the total alkalinity in seawater. <i>Oceanology</i> , 2008, 48, 438-443.	0.3	46
77	The physicochemical habitat of <i>Sclerolinum</i> sp. at Hook Ridge hydrothermal vent, Bransfield Strait, Antarctica. <i>Limnology and Oceanography</i> , 2005, 50, 598-606.	1.6	45
78	Controls on authigenic carbonate precipitation at cold seeps along the convergent margin off Costa Rica. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	43
79	Evidence for the submarine weathering of silicate minerals in Black Sea sediments: Possible implications for the marine Li and B cycles. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	41
80	Chemical, biological and hydrological controls on the 14C content of cold seep carbonate crusts: numerical modeling and implications for convection at cold seeps. <i>Chemical Geology</i> , 2004, 213, 359-383.	1.4	41
81	Pore-water distribution and quantification of diffusive benthic fluxes of silicic acid, nitrate and phosphate in surface sediments of the deep Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 2707-2734.	0.6	39
82	The influence of volcanic ash alteration on the REE composition of marine pore waters. <i>Journal of Geochemical Exploration</i> , 2010, 106, 176-187.	1.5	39
83	A model for microbial phosphorus cycling in bioturbated marine sediments: Significance for phosphorus burial in the early Paleozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 251-268.	1.6	38
84	Robust and fast FORTRAN and MATLAB® libraries to calculate pH distributions in marine systems. <i>Computers and Geosciences</i> , 2001, 27, 157-169.	2.0	36
85	Biological nitrate transport in sediments on the Peruvian margin mitigates benthic sulfide emissions and drives pelagic N loss during stagnation events. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 112, 123-136.	0.6	36
86	3â€ basinâ€scale reconstruction of natural gas hydrate system of the <i>Green Canyon</i> of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1959-1985.	1.0	36
87	Stable sulfur isotopes indicate net sulfate reduction in near-surface sediments of the deep Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 2769-2783.	0.6	34
88	Hot vents in an ice-cold ocean: Indications for phase separation at the southernmost area of hydrothermal activity, Bransfield Strait, Antarctica. <i>Earth and Planetary Science Letters</i> , 2001, 193, 381-394.	1.8	34
89	Cool episodes in the Cretaceous â€ Exploring the effects of physical forcings on Antarctic snow accumulation. <i>Earth and Planetary Science Letters</i> , 2011, 307, 279-288.	1.8	33
90	Footprint and detectability of a well leaking CO2 in the Central North Sea: Implications from a field experiment and numerical modelling. <i>International Journal of Greenhouse Gas Control</i> , 2019, 84, 190-203.	2.3	33

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91	Volcanogenic sediment–seawater interactions and the geochemistry of pore waters. <i>Chemical Geology</i> , 2008, 249, 321-338.	1.4	32
92	Pathways and regulation of carbon, sulfur and energy transfer in marine sediments overlying methane gas hydrates on the Opouawe Bank (New Zealand). <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5763-5784.	1.6	32
93	Estimating the time of pockmark formation in the SW Xisha Uplift (South China Sea) using reaction-transport modeling. <i>Marine Geology</i> , 2015, 364, 21-31.	0.9	32
94	Hydrothermal activity at Hook Ridge in the Central Bransfield Basin, Antarctica. <i>Geo-Marine Letters</i> , 1998, 18, 277-284.	0.5	31
95	Origin of salt-enriched pore fluids in the northern Gulf of Mexico. <i>Earth and Planetary Science Letters</i> , 2007, 259, 266-282.	1.8	31
96	A 35-million-year record of seawater stable Sr isotopes reveals a fluctuating global carbon cycle. <i>Science</i> , 2021, 371, 1346-1350.	6.0	31
97	Sedimentation and formation of secondary minerals in the hypersaline Discovery Basin, eastern Mediterranean. <i>Marine Geology</i> , 2002, 186, 9-28.	0.9	29
98	Halogen and <sup>129</sup> I systematics in gas hydrate fields at the northern Cascadia margin (IODP Tj ETQq0 0.0 rgBT /Overlock 10	1.0	29
99	3-D numerical modelling of methane hydrate accumulations using PetroMod. <i>Marine and Petroleum Geology</i> , 2016, 71, 288-295.	1.5	29
100	Benthic phosphorus cycling in the Peruvian oxygen minimum zone. <i>Biogeosciences</i> , 2016, 13, 1367-1386.	1.3	27
101	Cretaceous oceanic anoxic events prolonged by phosphorus cycle feedbacks. <i>Climate of the Past</i> , 2020, 16, 757-782.	1.3	27
102	The contribution of organic matter to the alkaline reserve of natural waters. <i>Oceanology</i> , 2006, 46, 192-199.	0.3	26
103	A transfer function for the prediction of gas hydrate inventories in marine sediments. <i>Biogeosciences</i> , 2010, 7, 2925-2941.	1.3	26
104	Impact of ambient conditions on the Si isotope fractionation in marine pore fluids during early diagenesis. <i>Biogeosciences</i> , 2020, 17, 1745-1763.	1.3	26
105	Geochemistry of gas hydrate accumulation offshore NE Sakhalin Island (the Sea of Okhotsk): results from the KOMEX-2002 cruise. <i>Geo-Marine Letters</i> , 2003, 23, 278-288.	0.5	25
106	The thermal structure of the Dvurechenskii mud volcano and its implications for gas hydrate stability and eruption dynamics. <i>Marine and Petroleum Geology</i> , 2009, 26, 1812-1823.	1.5	25
107	Serpentine alteration as source of high dissolved silicon and elevated <sup>30</sup> Si values to the marine Si cycle. <i>Nature Communications</i> , 2020, 11, 5123.	5.8	24
108	Development, test, and evaluation of exploitation technologies for the application of gas production from natural gas hydrate reservoirs and their potential application in the Danube Delta, Black Sea. <i>Marine and Petroleum Geology</i> , 2020, 120, 104488.	1.5	23



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109	Freshening of the Marmara Sea prior to its post-glacial reconnection to the Mediterranean Sea. <i>Earth and Planetary Science Letters</i> , 2015, 413, 176-185.	1.8	22
110	Effects of eustatic sea-level change, ocean dynamics, and nutrient utilization on atmospheric $\text{CO}_2$ and seawater composition over the last 130,000 years: a model study. <i>Climate of the Past</i> , 2016, 12, 339-375.	1.3	22
111	Shallow Gas Migration along Hydrocarbon Wells—An Unconsidered, Anthropogenic Source of Biogenic Methane in the North Sea. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10262-10268.	4.6	21
112	Recycling and Burial of Biogenic Silica in an Open Margin Oxygen Minimum Zone. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006583.	1.9	21
113	Controls on organic carbon and molybdenum accumulation in Cretaceous marine sediments from the Cenomanian–Turonian interval including Oceanic Anoxic Event 2. <i>Chemical Geology</i> , 2012, 324-325, 28-45.	1.4	20
114	Strong and Dynamic Benthic-Pelagic Coupling and Feedbacks in a Coastal Upwelling System (Peruvian) <i>Journal of Geophysical Research: Solid Earth</i> , 2010, 115, 10268-10278.	1.2	20
115	Origin and Transformation of Light Hydrocarbons Ascending at an Active Pockmark on Vestnesa Ridge, Arctic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2018JB016679.	1.4	20
116	Simulating and Quantifying Multiple Natural Subsea $\text{CO}_2$ Seeps at Panarea Island (Aeolian) <i>Environmental Science &amp; Technology</i> , 2019, 53, 10258-10268.	4.6	19
117	Studies on the adsorption of cadmium on hydrous iron(III) oxides in oxic sediments. <i>Analytica Chimica Acta</i> , 1993, 273, 323-327.	2.6	18
118	Phanerozoic evolution of atmospheric methane. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	18
119	In Situ Temperature Measurements at the Svalbard Continental Margin: Implications for Gas Hydrate Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1165-1177.	1.0	18
120	Oxygen minimum zone-type biogeochemical cycling in the Cenomanian-Turonian Proto-North Atlantic across Oceanic Anoxic Event 2. <i>Earth and Planetary Science Letters</i> , 2019, 517, 50-60.	1.8	18
121	Distribution and accumulation rate of Hg in the upper quaternary sediments of the Deryugin Basin, Sea of Okhotsk. <i>Geochemistry International</i> , 2007, 45, 47-61.	0.2	17
122	Is late Quaternary climate change governed by self-sustained oscillations in atmospheric $\text{CO}_2$ ? <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 413-439.	1.6	17
123	Periodic changes in the Cretaceous ocean and climate caused by marine redox see-saw. <i>Nature Geoscience</i> , 2019, 12, 456-461.	5.4	17
124	Isotopic fingerprints of benthic nitrogen cycling in the Peruvian oxygen minimum zone. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 406-425.	1.6	15
125	Dissolved benthic phosphate, iron and carbon fluxes in the Mauritanian upwelling system and implications for ongoing deoxygenation. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 143, 70-84.	0.6	15
126	Formation pathways of light hydrocarbons in deep sediments of the Danube deep-sea fan, Western Black Sea. <i>Marine and Petroleum Geology</i> , 2020, 122, 104627.	1.5	14



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127	Constraining Global Marine Iron Sources and Ligand-Mediated Scavenging Fluxes With GEOTRACES Dissolved Iron Measurements in an Ocean Biogeochemical Model. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006948.	1.9	14
128	Title is missing!. <i>Earth and Planetary Science Letters</i> , 2004, 225, 347-363.	1.8	13
129	Reply to comment on: "Gas hydrate growth, methane transport and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia Margin off Oregon". <i>Earth and Planetary Science Letters</i> , 2005, 239, 168-175.	1.8	12
130	Quantification of methane emission from bacterial mat sites at Quepos Slide offshore Costa Rica. <i>International Journal of Earth Sciences</i> , 2014, 103, 1817-1829.	0.9	9
131	Genesis of mud volcano fluids in the Gulf of Cadiz using a novel basin-scale model approach. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 243, 186-204.	1.6	9
132	Ocean phosphorus inventory: large uncertainties in future projections on millennial timescales and their consequences for ocean deoxygenation. <i>Earth System Dynamics</i> , 2019, 10, 539-553.	2.7	9
133	Interactions between deep formation fluid and gas hydrate dynamics inferred from pore fluid geochemistry at active pockmarks of the Vestnesa Ridge, west Svalbard margin. <i>Marine and Petroleum Geology</i> , 2021, 127, 104957.	1.5	9
134	Quantification of dissolved CO2 plumes at the Goldeneye CO2-release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103387.	2.3	9
135	Sediment release of dissolved organic matter to the oxygen minimum zone off Peru. <i>Biogeosciences</i> , 2020, 17, 4663-4679.	1.3	9
136	Solubility of cadmium and cobalt in a post-oxic or sub-oxic sediment suspension. <i>Hydrobiologia</i> , 1992, 235-236, 611-622.	1.0	8
137	Old iodine in fluids venting along the Central American convergent margin. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	8
138	Oil and gas seepage offshore Georgia (Black Sea) " Geochemical evidences for a paleogene-neogene hydrocarbon source rock. <i>Marine and Petroleum Geology</i> , 2021, 128, 104995.	1.5	8
139	Biogeochemical feedbacks may amplify ongoing and future ocean deoxygenation: a case study from the Peruvian oxygen minimum zone. <i>Biogeochemistry</i> , 2022, 159, 45-67.	1.7	8
140	Geochemical characterization of deep-sea sediments on the Azores Plateau " From diagenesis to hydrothermal activity. <i>Marine Geology</i> , 2020, 429, 106291.	0.9	7
141	Liverworts and all. <i>Nature Geoscience</i> , 2008, 1, 14-15.	5.4	5
142	The Influence of Diagenetic Processes on the Exchange of Trace Contaminants at the Sediment-Water Interface. , 1996, , 37-50.		3
143	Origin of High Mg and SO 4 Fluids in Sediments of the Terceira Rift, Azores-Indications for Caminite Dissolution in a Waning Hydrothermal System. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6078-6094.	1.0	3
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