Christian Hensen

List of Publications by Year
in descending order

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80 papers	5,413 citations	76326 40 h-index	85541 71 g-index
80 all docs	80 docs citations	80 times ranked	4621 citing authors

#	Article	IF	Citations
1	Offshore Freshened Groundwater in Continental Margins. Reviews of Geophysics, 2021, 59, e2020RG000706.	23.0	31
2	Recycling and Burial of Biogenic Silica in an Open Margin Oxygen Minimum Zone. Global Biogeochemical Cycles, 2021, 35, e2020GB006583.	4.9	21
3	The Guaymas Basin Subseafloor Sedimentary Archaeome Reflects Complex Environmental Histories. IScience, 2020, 23, 101459.	4.1	22
4	Geochemical characterization of deep-sea sediments on the Azores Plateau â€“ From diagenesis to hydrothermal activity. Marine Geology, 2020, 429, 106291.	2.1	7
5	Impact of ambient conditions on the Si isotope fractionation in marine pore fluids during early diagenesis. Biogeosciences, 2020, 17, 1745-1763.	3.3	26
6	Shelf-to-basin iron shuttle in the Guaymas Basin, Gulf of California. Geochimica Et Cosmochimica Acta, 2019, 261, 76-92.	3.9	28
7	Origin of High Mg and SO 4 Fluids in Sediments of the Terceira Rift, Azoresâ€Indications for Caminite Dissolution in a Waning Hydrothermal System. Geochemistry, Geophysics, Geosystems, 2019, 20, 6078-6094.	2.5	3
8	Characteristics and Evolution of sill-driven off-axis hydrothermalism in Guaymas Basin â€“ the Ringvent site. Scientific Reports, 2019, 9, 13847.	3.3	33
9	Formation and migration of hydrocarbons in deeply buried sediments of the Gulf of Cadiz convergent plate boundary - Insights from the hydrocarbon and helium isotope geochemistry of mud volcano fluids. Marine Geology, 2019, 410, 56-69.	2.1	12
10	Marine Transform Faults and Fracture Zones: A Joint Perspective Integrating Seismicity, Fluid Flow and Life. Frontiers in Earth Science, 2019, 7, .	1.8	46
11	Dissolved benthic phosphate, iron and carbon fluxes in the Mauritanian upwelling system and implications for ongoing deoxygenation. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 143, 70-84.	1.4	15
12	Redox conditions and authigenic mineralization related to cold seeps in central Guaymas Basin, Gulf of California. Marine and Petroleum Geology, 2018, 95, 1-15.	3.3	22
13	The geochemistry and origin of the hydrothermal water erupted at Lusi, Indonesia. Marine and Petroleum Geology, 2018, 90, 52-66.	3.3	21
14	Genesis of mud volcano fluids in the Gulf of Cadiz using a novel basin-scale model approach. Geochimica Et Cosmochimica Acta, 2018, 243, 186-204.	3.9	9
15	On the formation of hydrothermal vents and cold seeps in the Guaymas Basin, Gulf of California. Biogeosciences, 2018, 15, 5715-5731.	3.3	25
16	3â€Ð basinâ€scale reconstruction of natural gas hydrate system of the <scp>G</scp>reen <scp>C</scp>anyon, <scp>G</scp>ulf of <scp>M</scp>exico. Geochemistry, Geophysics, Geosystems, 2017, 18, 1959-1985.	2.5	36
17	Benthic phosphorus cycling in the Peruvian oxygen minimum zone. Biogeosciences, 2016, 13, 1367-1386.	3.3	27
18	Nitrate-dependent iron oxidation limits iron transport in anoxic ocean regions. Earth and Planetary Science Letters, 2016, 454, 272-281.	4.4	83

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19	Rifting under steamâ€"How rift magmatism triggers methane venting from sedimentary basins. Geology, 2016, 44, 767-770.	4.4	59
20	Fault zone controlled seafloor methane seepage in the rupture area of the 2010 <scp>M</scp>aule earthquake, <scp>C</scp>entral <scp>C</scp>hile. Geochemistry, Geophysics, Geosystems, 2016, 17, 4802-4813.	2.5	32
21	3-D numerical modelling of methane hydrate accumulations using PetroMod. Marine and Petroleum Geology, 2016, 71, 288-295.	3.3	29
22	A revised global estimate of dissolved iron fluxes from marine sediments. Global Biogeochemical Cycles, 2015, 29, 691-707.	4.9	126
23	Organic carbon production, mineralisation and preservation on the Peruvian margin. Biogeosciences, 2015, 12, 1537-1559.	3.3	81
24	Strike-slip faults mediate the rise of crustal-derived fluids and mud volcanism in the deep sea. Geology, 2015, 43, 339-342.	4.4	56
25	Estimating the time of pockmark formation in the SW Xisha Uplift (South China Sea) using reaction-transport modeling. Marine Geology, 2015, 364, 21-31.	2.1	32
26	Microbial activity and carbonate isotope signatures as a tool for identification of spatial differences in methane advection: a case study at the Pacific Costa Rican margin. Biogeosciences, 2014, 11, 507-523.	3.3	10
27	On the isotope composition of reactive iron in marine sediments: Redox shuttle versus early diagenesis. Chemical Geology, 2014, 389, 48-59.	3.3	65
28	Formation of carbonate concretions in surface sediments of two mud mounds, offshore Costa Rica: a stable isotope study. International Journal of Earth Sciences, 2014, 103, 1831-1844.	1.8	15
29	Volatile (H2O, CO2, Cl, S) budget of the Central American subduction zone. International Journal of Earth Sciences, 2014, 103, 2101-2127.	1.8	38
30	Beyond the Black Sea paradigm: The sedimentary fingerprint of an open-marine iron shuttle. Geochimica Et Cosmochimica Acta, 2014, 127, 368-380.	3.9	106
31	The impact of fluid advection on gas hydrate stability: Investigations at sites of methane seepage offshore Costa Rica. Earth and Planetary Science Letters, 2014, 401, 95-109.	4.4	42
32	The impact of ocean deoxygenation on iron release from continental margin sediments. Nature Geoscience, 2014, 7, 433-437.	12.9	102
33	Fluid evolution and authigenic mineral paragenesis related to salt diapirism â€“ The Mercator mud volcano in the Gulf of Cadiz. Geochimica Et Cosmochimica Acta, 2013, 106, 261-286.	3.9	37
34	Submarine weathering of silicate minerals and the extent of pore water freshening at active continental margins. Geochimica Et Cosmochimica Acta, 2013, 100, 200-216.	3.9	45
35	Estimation of the global inventory of methane hydrates in marine sediments using transfer functions. Biogeosciences, 2013, 10, 959-975.	3.3	145
36	The role of benthic foraminifera in the benthic nitrogen cycle of the Peruvian oxygen minimum zone. Biogeosciences, 2013, 10, 4767-4783.	3.3	59

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37	The Global Inventory of Methane Hydrate in Marine Sediments: A Theoretical Approach. Energies, 2012, 5, 2449-2498.	3.1	240
38	Gas hydrate decomposition recorded by authigenic barite at pockmark sites of the northern Congo Fan. Geo-Marine Letters, 2012, 32, 515-524.	1.1	25
39	Benthic iron and phosphorus fluxes across the Peruvian oxygen minimum zone. Limnology and Oceanography, 2012, 57, 851-867.	3.1	130
40	EMP and SIMS studies on Mn/Ca and Fe/Ca systematics in benthic foraminifera from the Peruvian OMZ: a contribution to the identification of potential redox proxies and the impact of cleaning protocols. Biogeosciences, 2012, 9, 341-359.	3.3	45
41	Early diagenesis of redox-sensitive trace metals in the Peru upwelling area â€“ response to ENSO-related oxygen fluctuations in the water column. Geochimica Et Cosmochimica Acta, 2011, 75, 7257-7276.	3.9	223
42	Benthic nitrogen cycling traversing the Peruvian oxygen minimum zone. Geochimica Et Cosmochimica Acta, 2011, 75, 6094-6111.	3.9	90
43	ENVIRONMENTAL INFLUENCES ON THE PORE DENSITY OF BOLIVINA SPISSA (CUSHMAN). Journal of Foraminiferal Research, 2011, 41, 22-32.	0.5	47
44	Microbial mediation of benthic biogenic silica dissolution. Geo-Marine Letters, 2010, 30, 477-492.	1.1	14
45	Active mud volcanoes on the upper slope of the western Nile deep-sea fanâ€”first results from the P362/2 cruise of R/V Poseidon. Geo-Marine Letters, 2010, 30, 169-186.	1.1	30
46	A transfer function for the prediction of gas hydrate inventories in marine sediments. Biogeosciences, 2010, 7, 2925-2941.	3.3	26
47	Controls on authigenic carbonate precipitation at cold seeps along the convergent margin off Costa Rica. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	43
48	Lithium isotope geochemistry of marine pore waters â€“ Insights from cold seep fluids. Geochimica Et Cosmochimica Acta, 2010, 74, 3459-3475.	3.9	62
49	Controls on the 129I/I ratio of deep-seated marine interstitial fluids: â€˜Oldâ€™ organic versus fissiogenic 129-iodine. Earth and Planetary Science Letters, 2010, 294, 27-36.	4.4	24
50	NW African climate variations during the last 47,000 years: Evidence from organic-walled dinoflagellate cysts. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 291, 443-455.	2.3	18
51	A late Mioceneâ€“early Pliocene Antarctic deepwater record of repeated iron reduction events. Marine Geology, 2009, 266, 198-211.	2.1	9
52	Origin of light volatile hydrocarbon gases in mud volcano fluids, Gulf of Cadiz â€” Evidence for multiple sources and transport mechanisms in active sedimentary wedges. Chemical Geology, 2009, 266, 350-363.	3.3	37
53	Isotopic evidence (87Sr/86Sr, Î7Li) for alteration of the oceanic crust at deep-rooted mud volcanoes in the Gulf of Cadiz, NE Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2009, 73, 5444-5459.	3.9	68
54	Seabed methane emissions and the habitat of frenulate tubeworms on the Captain Arutyunov mud volcano (Gulf of Cadiz). Marine Ecology - Progress Series, 2009, 382, 69-86.	1.9	70

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55	Hydrogeological system of erosional convergent margins and its influence on tectonics and interplate seismogenesis. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	159
56	Shallow Microbial Recycling of Deep-Sourced Carbon in Gulf of Cadiz Mud Volcanoes. Geomicrobiology Journal, 2008, 25, 283-295.	2.0	15
57	Origin of salt-enriched pore fluids in the northern Gulf of Mexico. Earth and Planetary Science Letters, 2007, 259, 266-282.	4.4	31
58	Sources of mud volcano fluids in the Gulf of Cadizâ€"indications for hydrothermal imprint. Geochimica Et Cosmochimica Acta, 2007, 71, 1232-1248.	3.9	167
59	Microbial methane turnover at mud volcanoes of the Gulf of Cadiz. Geochimica Et Cosmochimica Acta, 2006, 70, 5336-5355.	3.9	173
60	Pore water geochemistry of eastern Mediterranean mud volcanoes: Implications for fluid transport and fluid origin. Marine Geology, 2006, 225, 191-208.	2.1	61
61	Methane hydrate accumulation in â€œMound 11â€•mud volcano, Costa Rica forearc. Marine Geology, 2005, 216, 83-100.	2.1	74
62	Diagenetic Alteration of Magnetic Signals by Anaerobic Oxidation of Methane Related to a Change in Sedimentation Rate. Geochimica Et Cosmochimica Acta, 2005, 69, 4117-4126.	3.9	144
63	Calculation of the stability and solubility of methane hydrate in seawater. Chemical Geology, 2005, 219, 37-52.	3.3	210
64	In situ benthic fluxes from an intermittently active mud volcano at the Costa Rica convergent margin. Earth and Planetary Science Letters, 2005, 235, 79-95.	4.4	78
65	Methane formation at Costa Rica continental marginâ€"constraints for gas hydrate inventories and cross-dÃ©collement fluid flow. Earth and Planetary Science Letters, 2005, 236, 41-60.	4.4	63
66	Organic carbon content in surface sedimentsâ€"defining regional provinces. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 2001-2026.	1.4	171
67	A combined geochemical and rock-magnetic investigation of a redox horizon at the last glacial/interglacial transition. Physics and Chemistry of the Earth, 2004, 29, 921-931.	2.9	22
68	Fluid expulsion related to mud extrusion off Costa Ricaâ€"A window to the subducting slab. Geology, 2004, 32, 201.	4.4	221
69	Control of sulfate pore-water profiles by sedimentary events and the significance of anaerobic oxidation of methane for the burial of sulfur in marine sediments. Geochimica Et Cosmochimica Acta, 2003, 67, 2631-2647.	3.9	220
70	Modeling of subsurface calcite dissolution, including the respiration and reoxidation processes of marine sediments in the region of equatorial upwelling off Gabon. Geochimica Et Cosmochimica Acta, 2002, 66, 4247-4259.	3.9	39
71	Oceanographic control of biogenic opal and diatoms in surface sediments of the Southwestern Atlantic. Marine Geology, 2002, 186, 263-280.	2.1	51
72	Calcite dissolution driven by benthic mineralization in the deep-sea: in situ measurements of Ca 2+ , pH, pCO 2 and O 2. Geochimica Et Cosmochimica Acta, 2001, 65, 2677-2690.	3.9	92

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73	Reconstruction of primary productivity from the barium contents in surface sediments of the South Atlantic Ocean. Marine Geology, 2001, 177, 13-24.	2.1	58
74	Modeling of calcite dissolution by oxic respiration in supralysoclinal deep-sea sediments. Marine Geology, 2001, 177, 167-189.	2.1	41
75	Computer simulation of deep sulfate reduction in sediments of the Amazon Fan. International Journal of Earth Sciences, 2000, 88, 641-654.	1.8	29
76	A comparison of benthic nutrient fluxes from deep-sea sediments off Namibia and Argentina. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 2029-2050.	1.4	43
77	Deep Sulfate Reduction Completely Mediated by Anaerobic Methane Oxidation in Sediments of the Upwelling Area off Namibia. Geochimica Et Cosmochimica Acta, 1998, 62, 455-464.	3.9	286
78	Quantification of diffusive benthic fluxes of nitrate, phosphate, and silicate in the southern Atlantic Ocean. Global Biogeochemical Cycles, 1998, 12, 193-210.	4.9	60
79	Simulation of early diagenetic processes in continental slope sediments off southwest Africa: the computer model CoTAM tested. Marine Geology, 1997, 144, 191-210.	2.1	32
80	Mud mounds: A polygenetic spectrum of fine-grained carbonate buildups. Facies, 1995, 32, 1-69.	1.4	126