

Sabine Kasten

List of Publications by Year in descending order

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101
papers

5,675
citations

81743

39
h-index

88477

70
g-index

105
all docs

105
docs citations

105
times ranked

5611
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective preservation of organic matter in marine environments; processes and impact on the sedimentary record. <i>Biogeosciences</i> , 2010, 7, 483-511.	1.3	331
2	Deep Sulfate Reduction Completely Mediated by Anaerobic Methane Oxidation in Sediments of the Upwelling Area off Namibia. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 455-464.	1.6	286
3	Global rates of marine sulfate reduction and implications for sub-sea-floor metabolic activities. <i>Science</i> , 2014, 344, 889-891.	6.0	253
4	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. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2631-2647.	1.6	220
5	Redox sensitivity of P cycling during marine black shale formation: Dynamics of sulfidic and anoxic, non-sulfidic bottom waters. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3703-3717.	1.6	196
6	An inorganic geochemical argument for coupled anaerobic oxidation of methane and iron reduction in marine sediments. <i>Geobiology</i> , 2014, 12, 172-181.	1.1	180
7	Sulfur Cycling and Methane Oxidation. , 2006, , 271-309.		159
8	Diagenetic Alteration of Magnetic Signals by Anaerobic Oxidation of Methane Related to a Change in Sedimentation Rate. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4117-4126.	1.6	144
9	North Atlantic Deep Water export to the Southern Ocean over the past 14 Myr: Evidence from Nd and Pb isotopes in ferromanganese crusts. <i>Paleoceanography</i> , 2002, 17, 12-1-12-9.	3.0	129
10	Simultaneous formation of iron-rich layers at different redox boundaries in sediments of the Amazon deep-sea fan. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2253-2264.	1.6	120
11	Reconstructing changes in seep activity by means of pore water and solid phase Sr/Ca and Mg/Ca ratios in pockmark sediments of the Northern Congo Fan. <i>Marine Geology</i> , 2011, 287, 1-13.	0.9	119
12	Diagenetic changes of magnetic and geochemical signals by anaerobic methane oxidation in sediments of the Zambezi deep-sea fan (SW Indian Ocean). <i>Marine Geology</i> , 2008, 255, 118-130.	0.9	116
13	Active and buried authigenic barite fronts in sediments from the Eastern Cape Basin. <i>Earth and Planetary Science Letters</i> , 2006, 241, 876-887.	1.8	114
14	Impact of depositional and biogeochemical processes on small scale variations in nodule abundance in the Clarion-Clipperton Fracture Zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 91, 125-141.	0.6	113
15	Chapter 1 Impacts of the Oceans on Climate Change. <i>Advances in Marine Biology</i> , 2009, 56, 1-150.	0.7	110
16	Subduction zone earthquake as potential trigger of submarine hydrocarbon seepage. <i>Nature Geoscience</i> , 2013, 6, 647-651.	5.4	105
17	Microbial Communities and Organic Matter Composition in Surface and Subsurface Sediments of the Helgoland Mud Area, North Sea. <i>Frontiers in Microbiology</i> , 2015, 6, 1290.	1.5	102
18	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.	1.8	100

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19	Pockmarks in the Northern Congo Fan area, SW Africa: Complex seafloor features shaped by fluid flow. <i>Marine Geology</i> , 2008, 249, 206-225.	0.9	95
20	Iron oxide reduction in methane-rich deep Baltic Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 256-276.	1.6	95
21	Timing and structure of Mega-ACZ events during Heinrich Stadial 1. <i>Geophysical Research Letters</i> , 2015, 42, 5477.	1.5	93
22	Interaction between hydrocarbon seepage, chemosynthetic communities, and bottom water redox at cold seeps of the Makran accretionary prism: insights from habitat-specific pore water sampling and modeling. <i>Biogeosciences</i> , 2012, 9, 2013-2031.	1.3	87
23	Natural spatial variability of depositional conditions, biogeochemical processes and element fluxes in sediments of the eastern Clarion-Clipperton Zone, Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 140, 159-172.	0.6	86
24	A continental-weathering control on orbitally driven redox-nutrient cycling during Cretaceous Oceanic Anoxic Event 2. <i>Geology</i> , 2015, 43, 963-966.	2.0	77
25	Distinct microbial populations are tightly linked to the profile of dissolved iron in the methanic sediments of the Helgoland mud area, North Sea. <i>Frontiers in Microbiology</i> , 2015, 06, 365.	1.5	72
26	Sulfur Cycling in an Iron Oxide-Dominated, Dynamic Marine Depositional System: The Argentine Continental Margin. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	70
27	Diagenetic barium cycling in Black Sea sediments – A case study for anoxic marine environments. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 88, 88-105.	1.6	67
28	Barium peaks at glacial terminations in sediments of the equatorial Atlantic Ocean – relicts of deglacial productivity pulses?. <i>Chemical Geology</i> , 2001, 175, 635-651.	1.4	60
29	Reconstruction of primary productivity from the barium contents in surface sediments of the South Atlantic Ocean. <i>Marine Geology</i> , 2001, 177, 13-24.	0.9	58
30	Biogeochemistry of a low-activity cold seep in the Larsen B area, western Weddell Sea, Antarctica. <i>Biogeosciences</i> , 2009, 6, 2383-2395.	1.3	58
31	Determination of the stable iron isotopic composition of sequentially leached iron phases in marine sediments. <i>Chemical Geology</i> , 2016, 421, 93-102.	1.4	58
32	Gas hydrates in shallow deposits of the Amsterdam mud volcano, Anaximander Mountains, Northeastern Mediterranean Sea. <i>Geo-Marine Letters</i> , 2010, 30, 187-206.	0.5	56
33	A novel, multi-layered methanotrophic microbial mat system growing on the sediment of the Black Sea. <i>Environmental Microbiology</i> , 2008, 10, 1934-1947.	1.8	55
34	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
35	Biogeochemical controls on authigenic carbonate formation at the Chapopote – asphalt volcano, Bay of Campeche. <i>Chemical Geology</i> , 2009, 266, 390-402.	1.4	52
36	Sulfate Reduction in Marine Sediments. , 2000, , 263-281.		51

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37	Rates and Microbial Players of Iron-Driven Anaerobic Oxidation of Methane in Methanic Marine Sediments. <i>Frontiers in Microbiology</i> , 2019, 10, 3041.	1.5	51
38	The geochemical behavior of metals during early diagenetic alteration of buried manganese nodules. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 142, 16-33.	0.6	47
39	Phosphorus dynamics around the sulphate-methane transition in continental margin sediments: Authigenic apatite and Fe(II) phosphates. <i>Marine Geology</i> , 2018, 404, 84-96.	0.9	45
40	Bacterial diversity and biogeochemistry of different chemosynthetic habitats of the REGAB cold seep (West African margin, 3160 m water depth). <i>Biogeosciences</i> , 2012, 9, 5031-5048.	1.3	43
41	Calcium phosphate control of REY patterns of siliceous-ooze-rich deep-sea sediments from the central equatorial Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 251, 56-72.	1.6	42
42	Petroleum degradation and associated microbial signatures at the Chapopote asphalt volcano, Southern Gulf of Mexico. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4377-4398.	1.6	41
43	Quantifying manganese and nitrogen cycle coupling in manganese-rich, organic carbon-starved marine sediments: Examples from the Clarion-Clipperton fracture zone. <i>Geophysical Research Letters</i> , 2016, 43, 7114-7123.	1.5	41
44	Processes and Signals of Nonsteady-State Diagenesis in Deep-Sea Sediments and their Pore Waters. , 2003, , 431-459.		41
45	First evidence of widespread active methane seepage in the Southern Ocean, off the sub-Antarctic island of South Georgia. <i>Earth and Planetary Science Letters</i> , 2014, 403, 166-177.	1.8	40
46	Solid-phase manganese in Southeast Atlantic sediments: Implications for the paleoenvironment. <i>Marine Geology</i> , 1994, 121, 317-332.	0.9	39
47	Euphotic zone bacterioplankton sources major sedimentary bacteriohopanepolyols in the Holocene Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 750-766.	1.6	38
48	Iron cycling and stable Fe isotope fractionation in Antarctic shelf sediments, King George Island. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 237, 320-338.	1.6	38
49	Biogenic Barium as a Proxy for Paleoproductivity: Methods and Limitations of Application. , 1999, , 345-364.		37
50	Widespread seawater circulation in 18-22 Ma oceanic crust: Impact on heat flow and sediment geochemistry. <i>Geology</i> , 2017, 45, 799-802.	2.0	37
51	Rare earth elements in manganese nodules from the South Atlantic Ocean as indicators of oceanic bottom water flow. <i>Marine Geology</i> , 1998, 146, 33-52.	0.9	36
52	Sources and modes of terrigenous sediment input to the Chilean continental slope. <i>Quaternary International</i> , 2007, 161, 67-76.	0.7	36
53	Diffusive transfer of oxygen from seamount basaltic crust into overlying sediments: An example from the Clarion-Clipperton Fracture Zone. <i>Earth and Planetary Science Letters</i> , 2016, 433, 215-225.	1.8	36
54	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. <i>Geology</i> , 2010, 38, 851-854.	2.0	33

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55	Stromatolites below the photic zone in the northern Arabian Sea formed by calcifying chemotrophic microbial mats. <i>Geology</i> , 2018, 46, 339-342.	2.0	33
56	Early diagenesis of iron and sulfur in Bornholm Basin sediments: The role of near-surface pyrite formation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 43-60.	1.6	33
57	Barium in sediments off northwest Africa: A tracer for paleoproductivity or meltwater events?. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	32
58	An interdisciplinary investigation of a recent submarine mass transport deposit at the continental margin off Uruguay. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	32
59	The effect of meter-scale lateral oxygen gradients at the sediment-water interface on selected organic matter based alteration, productivity and temperature proxies. <i>Biogeosciences</i> , 2012, 9, 1553-1570.	1.3	32
60	Evidence for a palaeo-subglacial lake on the Antarctic continental shelf. <i>Nature Communications</i> , 2017, 8, 15591.	5.8	32
61	Different nutrient sources forcing increased productivity during eastern Mediterranean S1 sapropel formation as reflected by calcareous dinoflagellate cysts. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	31
62	Constraining silica diagenesis in methane-seep deposits. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 420, 13-26.	1.0	30
63	Computer simulation of deep sulfate reduction in sediments of the Amazon Fan. <i>International Journal of Earth Sciences</i> , 2000, 88, 641-654.	0.9	29
64	Distribution and abundance of gas hydrates in near-surface deposits of the Håkon Mosby Mud Volcano, SW Barents Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	29
65	Iron and sulfate reduction structure microbial communities in (sub-)Antarctic sediments. <i>ISME Journal</i> , 2021, 15, 3587-3604.	4.4	29
66	Biogeochemical Regeneration of a Nodule Mining Disturbance Site: Trace Metals, DOC and Amino Acids in Deep-Sea Sediments and Pore Waters. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	27
67	Geochemical environment of the Coniacian–Santonian western tropical Atlantic at Demerara Rise. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 273, 286-301.	1.0	26
68	Gas hydrate decomposition recorded by authigenic barite at pockmark sites of the northern Congo Fan. <i>Geo-Marine Letters</i> , 2012, 32, 515-524.	0.5	25
69	Crystalline iron oxides stimulate methanogenic benzoate degradation in marine sediment-derived enrichment cultures. <i>ISME Journal</i> , 2021, 15, 965-980.	4.4	25
70	Geochemical distribution patterns as indicators for productivity and terrigenous input off NW Africa. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 66, 51-66.	0.6	24
71	A comparison of mm scale resolution techniques for element analysis in sediment cores. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1574.	1.6	23
72	Carbon cycling fed by methane seepage at the shallow Cumberland Bay, South Georgia, sub-Antarctic. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1401-1418.	1.0	23

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73	Temperature Controls Crystalline Iron Oxide Utilization by Microbial Communities in Methanic Ferruginous Marine Sediment Incubations. <i>Frontiers in Microbiology</i> , 2018, 9, 2574.	1.5	23
74	A combined geochemical and rock-magnetic investigation of a redox horizon at the last glacial/interglacial transition. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 921-931.	1.2	22
75	Discovery of a giant cold-water coral mound province along the northern Argentine margin and its link to the regional Contourite Depositional System and oceanographic setting. <i>Marine Geology</i> , 2020, 10.1016/j.margeo.2020.102111 .	0.9	22
76	Mg/Ca and CO_2 pore water calibration for <i>Globobulimina</i> spp.: A sensitive paleot. <i>Earth and Planetary Science Letters</i> , 2016, 438, 95	1.8	20
77	New insights into large-scale trends of apparent organic matter reactivity in marine sediments and patterns of benthic carbon transformation. <i>Biogeosciences</i> , 2021, 18, 4651-4679.	1.3	19
78	Impact of small-scale disturbances on geochemical conditions, biogeochemical processes and element fluxes in surface sediments of the eastern Clarion-Clipperton Zone, Pacific Ocean. <i>Biogeosciences</i> , 2020, 17, 1113-1131.	1.3	18
79	Influence of diagenesis on the stable isotopic composition of biogenic carbonates from the Gulf of Tehuantepec oxygen minimum zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	16
80	Impact of iron release by volcanic ash alteration on carbon cycling in sediments of the northern Hikurangi margin. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116288.	1.8	15
81	Impact of Indus River discharge on productivity and preservation of organic carbon in the Arabian Sea over the twentieth century. <i>Geology</i> , 2012, 40, 399-402.	2.0	13
82	Post-depositional manganese mobilization during the last glacial period in sediments of the eastern Clarion-Clipperton Zone, Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2020, 532, 116012.	1.8	13
83	A prominent isotopic fingerprint of nitrogen uptake by anaerobic methanotrophic archaea. <i>Chemical Geology</i> , 2020, 558, 119972.	1.4	13
84	Electron Acceptor Availability Shapes Anaerobically Methane Oxidizing Archaea (ANME) Communities in South Georgia Sediments. <i>Frontiers in Microbiology</i> , 2021, 12, 617280.	1.5	11
85	Evolution of (Bio)Geochemical Processes and Diagenetic Alteration of Sediments Along the Tectonic Migration of Ocean Floor in the Shikoku Basin off Japan. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009585 .	1.0	11
86	Late Quaternary Sedimentation and Early Diagenesis in the Equatorial Atlantic Ocean: Patterns, Trends and Processes Deduced from Rock Magnetic and Geochemical Records. , 2003, , 461-497.		10
87	A late Miocene-early Pliocene Antarctic deepwater record of repeated iron reduction events. <i>Marine Geology</i> , 2009, 266, 198-211.	0.9	9
88	Constraining the Age and Evolution of the Tuaheni Landslide Complex, Hikurangi Margin, New Zealand, Using Porewater Geochemistry and Numerical Modeling. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087243 .	1.5	9
89	Sources of laminated sediments in the northeastern Arabian Sea off Pakistan and implications for sediment transport mechanisms during the late Holocene. <i>Holocene</i> , 2019, 29, 130-144.	0.9	7
90	Dropstones in the Mar del Plata Canyon Area (SW Atlantic): Evidence for Provenance, Transport, Distribution, and Oceanographic Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009333 .	1.0	7

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91	Early diagenesis of sulfur in Bornholm Basin sediments: The role of upward diffusion of isotopically $\delta^{34}\text{S}$ -heavy-sulfide. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 313, 359-377.	1.6	7
92	Geochemical consequences of oxygen diffusion from the oceanic crust into overlying sediments and its significance for biogeochemical cycles based on sediments of the northeast Pacific. <i>Biogeosciences</i> , 2021, 18, 4965-4984.	1.3	6
93	Pore Water Geochemistry as a Tool for Identifying and Dating Recent Mass-Transport Deposits. , 2012, , 87-97.		5
94	Benthic Carbon Remineralization and Iron Cycling in Relation to Sea Ice Cover along the Eastern Continental Shelf of the Antarctic Peninsula. <i>Journal of Geophysical Research: Oceans</i> , 0, , .	1.0	5
95	Are the Kimmeridge Clay deposits affected by $\delta^{13}\text{C}$ -burn-down-events? Palynological and geochemical studies on a 1 metre long section from the Upper Kimmeridge Clay Formation (Dorset, UK). <i>Sedimentary Geology</i> , 2009, 222, 301-313.	1.0	4
96	The Impacts of the Oceans on Climate Change. , 2008, , .		1
97	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, .	0.8	1
98	Mn^{2+} Mössbauer spectroscopy and X-ray fluorescence studies on sediments from the methanic zone of the Helgoland mud area, North Sea. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	0
99	Pore Waters. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 742-746.	0.1	0
100	Data report: solid-phase major and minor elements and iron and sulfur species in sediments of the Anholt Basin, Baltic Sea collected during IODP Expedition 347. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	0
101	Editorial: Advances in Microbial Iron Cycling. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	0