

Christian Berndt

List of Publications by Year in descending order

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130
papers

4,663
citations

109321

35
h-index

118850

62
g-index

164
all docs

164
docs citations

164
times ranked

3610
citing authors

#	ARTICLE	IF	CITATIONS
1	Escape of methane gas from the seabed along the West Spitsbergen continental margin. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	406
2	Geological controls on focused fluid flow associated with seafloor seeps in the Lower Congo Basin. <i>Marine Geology</i> , 2007, 244, 68-92.	2.1	242
3	Geological controls on the Storegga gas-hydrate system of the mid-Norwegian continental margin. <i>Earth and Planetary Science Letters</i> , 2003, 209, 291-307.	4.4	236
4	Temporal Constraints on Hydrate-Controlled Methane Seepage off Svalbard. <i>Science</i> , 2014, 343, 284-287.	12.6	219
5	Focused fluid flow in passive continental margins. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 2855-2871.	3.4	167
6	Seismic character of bottom simulating reflectors: examples from the mid-Norwegian margin. <i>Marine and Petroleum Geology</i> , 2004, 21, 723-733.	3.3	151
7	Seismic volcanostratigraphy of the Norwegian Margin: constraints on tectonomagmatic break-up processes. <i>Journal of the Geological Society</i> , 2001, 158, 413-426.	2.1	119
8	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. <i>Nature Communications</i> , 2018, 9, 83.	12.8	97
9	Water column methanotrophy controlled by a rapid oceanographic switch. <i>Nature Geoscience</i> , 2015, 8, 378-382.	12.9	89
10	Seismic chimneys in the Southern Viking Graben – Implications for palaeo fluid migration and overpressure evolution. <i>Earth and Planetary Science Letters</i> , 2015, 412, 88-100.	4.4	85
11	Polygonal fault systems on the mid-Norwegian margin: a long-term source for fluid flow. <i>Geological Society Special Publication</i> , 2003, 216, 283-290.	1.3	78
12	Combinations of volcanic-flank and seafloor-sediment failure offshore Montserrat, and their implications for tsunami generation. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 228-240.	4.4	77
13	Submarine slope failures due to pipe structure formation. <i>Nature Communications</i> , 2018, 9, 715.	12.8	77
14	Cessation/reactivation of polygonal faulting and effects on fluid flow in the VÅrving Basin, Norwegian Margin. <i>Journal of the Geological Society</i> , 2007, 164, 129-141.	2.1	70
15	Widespread and progressive seafloor-sediment failure following volcanic debris avalanche emplacement: Landslide dynamics and timing offshore Montserrat, Lesser Antilles. <i>Marine Geology</i> , 2012, 323-325, 69-94.	2.1	67
16	Repeated slope failure linked to fluid migration: The Ana submarine landslide complex, Eivissa Channel, Western Mediterranean Sea. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 65-74.	4.4	61
17	Rifting under steam – How rift magmatism triggers methane venting from sedimentary basins. <i>Geology</i> , 2016, 44, 767-770.	4.4	59
18	On the origin of multiple BSRs in the Danube deep-sea fan, Black Sea. <i>Earth and Planetary Science Letters</i> , 2017, 462, 15-25.	4.4	59

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19	Multiple widespread landslides during the long-term evolution of a volcanic island: Insights from high-resolution seismic data, Montserrat, Lesser Antilles. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	57
20	Gas-controlled seafloor doming. <i>Geology</i> , 2015, 43, 571-574.	4.4	56
21	Reduced methane seepage from Arctic sediments during cold bottom-water conditions. <i>Nature Geoscience</i> , 2020, 13, 144-148.	12.9	53
22	Title is missing!. <i>Marine Geophysical Researches</i> , 2001, 22, 133-152.	1.2	51
23	Anatomy of a fluid pipe in the Norway Basin: Initiation, propagation and 3D shape. <i>Marine Geology</i> , 2012, 332-334, 75-88.	2.1	51
24	Igneous seismic geomorphology of buried lava fields and coastal escarpments on the VÅring volcanic rifted margin. <i>Interpretation</i> , 2017, 5, SK161-SK177.	1.1	51
25	Morphology and mechanics of submarine spreading: A case study from the Storegga Slide. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	50
26	Seismic evidence for shallow gas-escape features associated with a retreating gas hydrate zone offshore west Svalbard. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
27	A technique for the morphological characterization of submarine landscapes as exemplified by debris flows of the Storegga Slide. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
28	P-Cable High-Resolution Seismic. <i>Oceanography</i> , 2009, 22, 85-85.	1.0	45
29	Development and mass movement processes of the north-eastern Storegga Slide. <i>Quaternary Science Reviews</i> , 2009, 28, 433-448.	3.0	44
30	From gradual spreading to catastrophic collapse – Reconstruction of the 1888 Ritter Island volcanic sector collapse from high-resolution 3D seismic data. <i>Earth and Planetary Science Letters</i> , 2019, 517, 1-13.	4.4	44
31	The impact of fluid advection on gas hydrate stability: Investigations at sites of methane seepage offshore Costa Rica. <i>Earth and Planetary Science Letters</i> , 2014, 401, 95-109.	4.4	42
32	Early-stage rifting of the northern Tyrrhenian Sea Basin: Results from a combined wide-angle and multichannel seismic study. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3032-3052.	2.5	41
33	Insights into the emplacement dynamics of volcanic landslides from high-resolution 3D seismic data acquired offshore Montserrat, Lesser Antilles. <i>Marine Geology</i> , 2013, 335, 1-15.	2.1	39
34	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103237.	4.6	39
35	Scale invariant characteristics of the Storegga Slide and implications for large-scale submarine mass movements. <i>Marine Geology</i> , 2008, 247, 46-60.	2.1	38
36	The HÅkon Mosby mud volcano: 330 000-Åyears of focused fluid flow activity at the SW Barents Sea slope. <i>Marine Geology</i> , 2009, 262, 105-115.	2.1	38

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37	Characterization of a stratigraphically constrained gas hydrate system along the western continental margin of Svalbard from ocean bottom seismometer data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	38
38	Fluid evolution and authigenic mineral paragenesis related to salt diapirism – The Mercator mud volcano in the Gulf of Cadiz. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 261-286.	3.9	37
39	Greenhouse gas emissions from marine decommissioned hydrocarbon wells: leakage detection, monitoring and mitigation strategies. <i>International Journal of Greenhouse Gas Control</i> , 2020, 100, 103119.	4.6	36
40	Drivers of focused fluid flow and methane seepage at south Hydrate Ridge, offshore Oregon, USA. <i>Geology</i> , 2013, 41, 551-554.	4.4	35
41	Glacigenic sedimentation pulses triggered post-glacial gas hydrate dissociation. <i>Nature Communications</i> , 2018, 9, 635.	12.8	35
42	Pockmarks in the Witch Ground Basin, Central North Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1698-1719.	2.5	35
43	The SW African volcanic rifted margin and the initiation of the Walvis Ridge, South Atlantic. <i>Marine Geophysical Researches</i> , 2009, 30, 207-214.	1.2	34
44	Switching of a paleo-ice stream in northwest Svalbard. <i>Quaternary Science Reviews</i> , 2011, 30, 1710-1725.	3.0	34
45	The Fugløy Reef at 70°N; acoustic signature, geologic, geomorphologic and oceanographic setting. <i>International Journal of Earth Sciences</i> , 2007, 96, 201-213.	1.8	33
46	Detecting hydrate and fluid flow from bottom simulating reflector depth anomalies. <i>Geology</i> , 2012, 40, 227-230.	4.4	33
47	Controlled-source electromagnetic and seismic delineation of subseafloor fluid flow structures in a gas hydrate province, offshore Norway. <i>Geophysical Journal International</i> , 2016, 206, 1093-1110.	2.4	32
48	From catastrophic collapse to multi-phase deposition: Flow transformation, seafloor interaction and triggered eruption following a volcanic-island landslide. <i>Earth and Planetary Science Letters</i> , 2019, 517, 135-147.	4.4	32
49	Offshore Freshened Groundwater in Continental Margins. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000706.	23.0	31
50	Ocean bottom seismometer investigations in the Ormen Lange area offshore mid-Norway provide evidence for shallow gas layers in subsurface sediments. <i>Marine and Petroleum Geology</i> , 2005, 22, 287-297.	3.3	30
51	Tectonic Controls on Gas Hydrate Distribution Off SW Taiwan. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1164-1184.	3.4	30
52	Ocean mixing in deep-sea trenches: New insights from the Challenger Deep, Mariana Trench. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 129, 1-9.	1.4	28
53	High-resolution resistivity imaging of marine gas hydrate structures by combined inversion of CSEM towed and ocean-bottom receiver data. <i>Geophysical Journal International</i> , 2018, 214, 1701-1714.	2.4	28
54	Tsunami modeling of a submarine landslide in the Fram Strait. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	27

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55	Fluid venting and seepage at accretionary ridges: the Four Way Closure Ridge offshore SW Taiwan. <i>Geo-Marine Letters</i> , 2016, 36, 165-174.	1.1	27
56	Fluid flow systems of the Malta Plateau, Central Mediterranean Sea. <i>Marine Geology</i> , 2011, 284, 74-85.	2.1	26
57	Gas hydrate distribution and hydrocarbon maturation north of the Knipovich Ridge, western Svalbard margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1405-1424.	3.4	26
58	Methane in shallow subsurface sediments at the landward limit of the gas hydrate stability zone offshore western Svalbard. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 419-438.	3.9	26
59	Morphology, age and sediment dynamics of the upper headwall of the Sahara Slide Complex, Northwest Africa: Evidence for a large Late Holocene failure. <i>Marine Geology</i> , 2017, 393, 109-123.	2.1	26
60	Potential impacts of gas hydrate exploitation on slope stability in the Danube deep-sea fan, Black Sea. <i>Marine and Petroleum Geology</i> , 2018, 92, 1056-1068.	3.3	26
61	Kilometre-scale polygonal seabed depressions in the Hatton Basin, NE Atlantic Ocean: Constraints on the origin of polygonal faulting. <i>Marine Geology</i> , 2012, 332-334, 126-133.	2.1	25
62	On the formation of hydrothermal vents and cold seeps in the Guaymas Basin, Gulf of California. <i>Biogeosciences</i> , 2018, 15, 5715-5731.	3.3	25
63	Toward one-meter resolution in 3D seismic. <i>The Leading Edge</i> , 2018, 37, 818-828.	0.7	24
64	Redox conditions and authigenic mineralization related to cold seeps in central Guaymas Basin, Gulf of California. <i>Marine and Petroleum Geology</i> , 2018, 95, 1-15.	3.3	22
65	Linked halokinesis and mud volcanism at the Mercator mud volcano, Gulf of Cadiz. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	21
66	Late Eocene onset of the Proto-Antarctic Circumpolar Current. <i>Scientific Reports</i> , 2019, 9, 10125.	3.3	21
67	Geophysical and geochemical evidence of large scale fluid flow within shallow sediments in the eastern Gulf of Mexico, offshore Louisiana. <i>Geofluids</i> , 2011, 11, 34-47.	0.7	19
68	Emplacement of pyroclastic deposits offshore Montserrat: Insights from 3D seismic data. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 257, 1-11.	2.1	19
69	Crustal thinning in the northern Tyrrhenian Rift: Insights from multichannel and wide-angle seismic data across the basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1655-1677.	3.4	19
70	Insights into active deformation in the Gulf of Cadiz from new 3-D seismic and high-resolution bathymetry data. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	18
71	High-resolution architecture of a polygonal fault interval inferred from geomodel applied to 3D seismic data from the Gjallar Ridge, VÅring Basin, Offshore Norway. <i>Marine Geology</i> , 2012, 332-334, 134-151.	2.1	18
72	Gas migration through Opouawe Bank at the Hikurangi margin offshore New Zealand. <i>Geo-Marine Letters</i> , 2016, 36, 187-196.	1.1	18

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73	In Situ Temperature Measurements at the Svalbard Continental Margin: Implications for Gas Hydrate Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1165-1177.	2.5	18
74	Polyphase Magmatism During the Formation of the Northern East Greenland Continental Margin. <i>Tectonics</i> , 2019, 38, 2961-2982.	2.8	17
75	Seismic chimney characterisation in the North Sea – Implications for pockmark formation and shallow gas migration. <i>Marine and Petroleum Geology</i> , 2021, 133, 105301.	3.3	17
76	Seal bypass at the Giant Gjallar Vent (Norwegian Sea): Indications for a new phase of fluid venting at a 56-Ma-old fluid migration system. <i>Marine Geology</i> , 2014, 351, 38-52.	2.1	16
77	Focused fluid flow and the sub-seabed storage of CO ₂ : Evaluating the leakage potential of seismic chimney structures for the Sleipner CO ₂ storage operation. <i>Marine and Petroleum Geology</i> , 2017, 88, 81-93.	3.3	16
78	3-D magnetotelluric image of offshore magmatism at the Walvis Ridge and rift basin. <i>Tectonophysics</i> , 2016, 683, 98-108.	2.2	15
79	Widespread hydrothermal vents and associated volcanism record prolonged Cenozoic magmatism in the South China Sea. <i>Bulletin of the Geological Society of America</i> , 2021, 133, 2645-2660.	3.3	15
80	On the origin of large shelf embayments on glaciated margins – effects of lateral ice flux variations and glacio-dynamics west of Svalbard. <i>Quaternary Science Reviews</i> , 2007, 26, 2406-2419.	3.0	14
81	Polyphase tectonic inversion and its role in controlling hydrocarbon prospectivity in the Greater East Shetland Platform and Mid North Sea High, UK. <i>Geological Society Special Publication</i> , 2019, 471, 177-235.	1.3	14
82	Geomechanical behaviour of gassy soils and implications for submarine slope stability: a literature analysis. <i>Geological Society Special Publication</i> , 2020, 500, 277-288.	1.3	14
83	<i>Munidopsis lauensis</i> Baba & de Saint Laurent, 1992 (Decapoda, Anomura, Munidopsidae), a newly recorded squat lobster from a cold seep in Taiwan. <i>Zootaxa</i> , 2013, 3737, 92.	0.5	13
84	Sidescan backscatter variations of cold seeps on the Hikurangi Margin (New Zealand): indications for different stages in seep development. <i>Geo-Marine Letters</i> , 2014, 34, 169-184.	1.1	13
85	Giant depressions on the Chatham Rise offshore New Zealand – Morphology, structure and possible relation to fluid expulsion and bottom currents. <i>Marine Geology</i> , 2018, 399, 158-169.	2.1	13
86	New insights into geology and geochemistry of the Kerch seep area in the Black Sea. <i>Marine and Petroleum Geology</i> , 2020, 113, 104162.	3.3	13
87	A Shallow Seabed Dynamic Gas Hydrate System off SW Taiwan: Results From 3D Seismic, Thermal, and Fluid Migration Analyses. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019245-T.	3.4	13
88	Multiscale characterisation of chimneys/pipes: Fluid escape structures within sedimentary basins. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103245.	4.6	13
89	Electrical Resistivity Anomalies Offshore a Carbonate Coastline: Evidence for Freshened Groundwater?. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091909.	4.0	13
90	Seismic analysis of the gas hydrate system at Pointer Ridge offshore SW Taiwan. <i>Marine and Petroleum Geology</i> , 2019, 105, 158-167.	3.3	12

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91	Seabed characterization through a range of high-resolution acoustic systems – a case study offshore Oman. <i>Marine Geophysical Researches</i> , 2006, 27, 167-180.	1.2	11
92	Seismic reflection imaging of mixing processes in Fram Strait. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6884-6896.	2.6	11
93	Characterizing ancient and modern hydrothermal venting systems. <i>Marine Geology</i> , 2022, 447, 106781.	2.1	11
94	Correlation of core and downhole seismic velocities in high-pressure metamorphic rocks: a case study for the COSC-1 borehole, Sweden. <i>Solid Earth</i> , 2020, 11, 607-626.	2.8	10
95	The Fram Slide off Svalbard: a submarine landslide on a low-sedimentation-rate glacial continental margin. <i>Journal of the Geological Society</i> , 2015, 172, 153-156.	2.1	9
96	Chronology of the Fram Slide Complex offshore NW Svalbard and its implications for local and regional slope stability. <i>Marine Geology</i> , 2017, 393, 141-155.	2.1	9
97	Elongate fluid flow structures: Stress control on gas migration at Opouawe Bank, New Zealand. <i>Marine and Petroleum Geology</i> , 2018, 92, 913-931.	3.3	9
98	Combining 3D seismics, eyewitness accounts and numerical simulations to reconstruct the 1888 Ritter Island sector collapse and tsunami. <i>International Journal of Earth Sciences</i> , 2020, 109, 2659-2677.	1.8	9
99	Biogeochemical Consequences of Nonvertical Methane Transport in Sediment Offshore Northwestern Svalbard. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005371.	3.0	9
100	Porosity and free gas estimates from controlled source electromagnetic data at the Scanner Pockmark in the North Sea. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103343.	4.6	8
101	Seismic reconstruction of seafloor sediment deformation during volcanic debris avalanche emplacement offshore Sakar, Papua New Guinea. <i>Marine Geology</i> , 2021, 439, 106563.	2.1	8
102	Volcanic-Island Lateral Collapses and Their Submarine Deposits. <i>Advances in Volcanology</i> , 2021, , 255-279.	1.1	8
103	Geological controls on the gas hydrate system of Formosa Ridge, South China Sea. , 2014, , .		7
104	Prediction of seismic P-wave velocity using machine learning. <i>Solid Earth</i> , 2019, 10, 1989-2000.	2.8	7
105	Cross-scale Seismic Anisotropy Analysis in Metamorphic Rocks From the COSC-1 Borehole in the Scandinavian Caledonides. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021154.	3.4	7
106	Core-log Seismic Integration in Metamorphic Rocks and Its Implication for the Regional Geology: A Case Study for the ICDP Drilling Project COSC-1, Sweden. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009376.	2.5	6
107	Northeast Atlantic breakup volcanism and consequences for Paleogene climate change – MagellanPlus Workshop report. <i>Scientific Drilling</i> , 0, 26, 69-85.	0.6	6
108	ESONET: An European Sea Observatory Initiative. , 2008, , .		5

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109	Submarine spreading in the Storegga Slide, Norwegian Sea. Geological Society Memoir, 2016, 46, 411-412.	1.7	5
110	Deep-seated focused fluid migration as indicator for hydrocarbon leads in the East Shetland Platform, North Sea Province. Geological Society Special Publication, 2019, , SP494-2019-26.	1.3	5
111	Does Retrogression Always Account for the Large Volume of Submarine Megaslides? Evidence to the Contrary From the Tampen Slide, Offshore Norway. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020655.	3.4	5
112	Focused methane migration formed pipe structures in permeable sandstones: Insights from uncrewed aerial vehicle-based digital outcrop analysis in Varna, Bulgaria. Sedimentology, 2021, 68, 2765-2782.	3.1	5
113	Comparison of Different Coupling Methods for Joint Inversion of Geophysical Data: A Case Study for the Namibian Continental Margin. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022092.	3.4	5
114	Seismic imaging of an active fluid conduit below Scanner Pockmark, Central North Sea. Marine and Petroleum Geology, 2021, 133, 105302.	3.3	4
115	Formation of the Figge Maar Seafloor Crater During the 1964 B1 Blowout in the German North Sea. Earth Science, Systems and Society, 0, 2, .	0.0	4
116	Electromagnetic and seismic investigation of methane hydrates offshore Taiwan — The Taiflux experiment. , 2014, , .		3
117	Imaging zero-offset 3-D P-cable data with CRS method. Geophysical Journal International, 2019, 219, 1876-1884.	2.4	3
118	A Rapid Numerical Method to Constrain 2D Focused Fluid Flow Rates Along Convergent Margins Using Dense BSR-based Temperature Field Data. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021668.	3.4	3
119	Potential Impacts of Gas Hydrate Exploitation on Slope Stability - A Study from the Danube Fan, Black Sea. , 2016, , .		2
120	Challenges in Velocity-Model Building With 3D P-Cable Data. , 2019, , .		2
121	Ocean bottom seismometer investigations in the Ormen Lange area offshore mid-Norway provide evidence for shallow gas layers in subsurface sediments. , 2005, , 287-297.		2
122	Recognition and three-dimensional characteristics of ancient supercritical flow bedforms on a submarine slope: An example from the South China Sea. Sedimentology, 2022, 69, 2564-2584.	3.1	2
123	Anisotropic velocity models for (3-D) seismic imaging of the Lower Seve Nappe in JÃmtland, Sweden. Geophysical Journal International, 2021, 228, 66-77.	2.4	1
124	High-Resolution 3D Site Characterization. , 2018, , .		1
125	Shallow 3D Reflection Seismics. , 2016, , 1-9.		1
126	Processes affecting the depth of the gas hydrate stability zone in the accretionary prism offshore Taiwan. , 2014, , .		0

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127	A gas hydrate site with bi-verging folding in the outer wedge offshore SW Taiwan: Results from kinematic structural modeling and finite strain analysis. <i>Tectonophysics</i> , 2020, 790, 228540.	2.2	0
128	A Hybrid Listerâ€™Outrigger Probe for Rapid Marine Geothermal Gradient Measurement. <i>Earth and Space Science</i> , 2021, 8, e2020EA001327.	2.6	0
129	An 1888 Volcanic Collapse Becomes a Benchmark for Tsunami Models. <i>Eos</i> , 2017, , .	0.1	0
130	Reply to comment on â€™Greenhouse gas emissions from marine decommissioned hydrocarbon wells: Leakage detection, monitoring and mitigation strategiesâ€™. <i>International Journal of Greenhouse Gas Control</i> , 2022, 113, 103518.	4.6	0