

Albert Galy

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

10,627
citations

34105

52
h-index

32842

100
g-index

145
all docs

145
docs citations

145
times ranked

7646
citing authors

#	ARTICLE	IF	CITATIONS
1	Using mineralogy and Sr-Nd isotopes of gypsum to constrain the provenance of sediments in the western Qaidam Basin, northern Tibetan Plateau: Implications for neo-tectonic activities. <i>Journal of Asian Earth Sciences</i> , 2022, 223, 104983.	2.3	2
2	Carbonate weathering dominates magnesium isotopes in large rivers: Clues from the Yangtze River. <i>Chemical Geology</i> , 2022, 588, 120677.	3.3	16
3	Hydrothermal systems with radiogenic Sr in the North Qaidam ultrahigh-pressure metamorphic belt, NE Tibetan Plateau and implications for regional dissolved Sr budget. <i>Applied Geochemistry</i> , 2022, 138, 105214.	3.0	8
4	Trends and Transitions in Silicate Weathering in the Asian Interior (NE Tibet) Since 53 Ma. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	5
5	The effect of lithology on the relationship between denudation rate and chemical weathering pathways – evidence from the eastern Tibetan Plateau. <i>Earth Surface Dynamics</i> , 2022, 10, 513-530.	2.4	14
6	Monsoon-Enhanced Silicate Weathering as a New Atmospheric CO ₂ Consumption Mechanism Contributing to Fast Late Miocene Global Cooling. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, .	2.9	18
7	Neodymium isotopic constraints on Cenozoic Asian dust provenance changes linked to the exhumation history of the northern Tibetan Plateau and the Central Asian Orogenic Belt. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 296, 38-55.	3.9	20
8	Co-variation of silicate, carbonate and sulfide weathering drives CO ₂ release with erosion. <i>Nature Geoscience</i> , 2021, 14, 211-216.	12.9	70
9	Industrially Purified Nd Materials Identified by Distinct Mass-Dependent Isotopic Composition. <i>Frontiers in Environmental Chemistry</i> , 2021, 2, .	1.6	2
10	East Asian monsoon intensification promoted weathering of the magnesium-rich southern China upper crust and its global significance. <i>Science China Earth Sciences</i> , 2021, 64, 1155-1170.	5.2	4
11	Geochemical evidence for carbon and chlorine enrichments in the mantle source of kimberlites (Udachnaya pipe, Siberian craton). <i>Geochimica Et Cosmochimica Acta</i> , 2021, 315, 295-316.	3.9	6
12	On the significance of periglacial conditions in active mountain belts for chemical weathering processes: Insights from the Chayu area, SE Tibet. <i>Chemical Geology</i> , 2021, 585, 120581.	3.3	3
13	Chronology of thrust propagation from an updated tectono-sedimentary framework of the Miocene molasse (western Alps). <i>Solid Earth</i> , 2021, 12, 2735-2771.	2.8	8
14	Survival of graphitized petrogenic organic carbon through multiple erosional cycles. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115992.	4.4	18
15	Seasonal riverine barium isotopic variation in the middle Yellow River: Sources and fractionation. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115990.	4.4	38
16	Hydrated sulfate minerals (bloedite and polyhalite): formation and paleoenvironmental implications. <i>Carbonates and Evaporites</i> , 2020, 35, 1.	1.0	8
17	Changes in hydrodynamic process dominance (wave, tide or river) in foreland sequences: The subalpine Miocene Molasse revisited (France). <i>Sedimentology</i> , 2020, 67, 2455-2501.	3.1	8
18	No evidence for carbon enrichment in the mantle source of carbonatites in eastern Africa. <i>Geology</i> , 2020, 48, 971-975.	4.4	7

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19	Rapid exhumation since at least 13 Ma in the Himalaya recorded by detrital apatite fission-track dating of Bengal fan (IODP Expedition 354) and modern Himalayan river sediments. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116078.	4.4	12
20	Miocene $^{87}\text{Sr}/^{86}\text{Sr}$ ratios of ostracods in the northern Qaidam Basin, NE Tibetan Plateau, and links with regional provenance, weathering and eolian input. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 552, 109775.	2.3	15
21	Triple Oxygen and Hydrogen Isotopic Variations of Pore Waters from the Middle Bengal Fan (IODP) Tj ETQq1 1 0.784314 rgBT /Overl		
22	The Carbon Budget of the Himalayan Orogeny from Source to Sink. , 2020, , .		0
23	Climate transition in the Asia inland at 0.8 ± 0.6 Ma related to astronomically forced ice sheet expansion. <i>Quaternary Science Reviews</i> , 2020, 248, 106580.	3.0	9
24	Sustained wood burial in the Bengal Fan over the last 19 My. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22518-22525.	7.1	43
25	Paleogene global cooling-induced temperature feedback on chemical weathering, as recorded in the northern Tibetan Plateau. <i>Geology</i> , 2019, 47, 992-996.	4.4	88
26	Evidence for early (≈ 12.7 Ma) eolian dust impact on river chemistry in the northeastern Tibetan Plateau. <i>Earth and Planetary Science Letters</i> , 2019, 515, 79-89.	4.4	15
27	Effects of cone combinations on accurate and precise Mg isotopic determination using multi-collector inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 351-360.	1.5	15
28	Late Miocene Intensified Tectonic Uplift and Climatic Aridification on the Northeastern Tibetan Plateau: Evidence From Clay Mineralogical and Geochemical Records in the Xining Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 829-851.	2.5	34
29	Li isotopes in the middle Yellow River: Seasonal variability, sources and fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 88-108.	3.9	57
30	Transitory microbial habitat in the hyperarid Atacama Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2670-2675.	7.1	172
31	Chemical weathering outputs from the flood plain of the Ganga. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 225, 146-175.	3.9	43
32	Weathering of Reactive Mineral Phases in Landslides Acts as a Source of Carbon Dioxide in Mountain Belts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2695-2713.	2.8	32
33	Eolian dust forcing of river chemistry on the northeastern Tibetan Plateau since 8 Ma. <i>Earth and Planetary Science Letters</i> , 2017, 464, 200-210.	4.4	26
34	Sequestration of carbon as carbonate in the critical zone: insights from the Himalayas and Tibetan Plateau. <i>Acta Geochimica</i> , 2017, 36, 389-391.	1.7	1
35	Glacial-interglacial climate change on the northeastern Tibetan Plateau over the last 600 kyr. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 476, 181-191.	2.3	12
36	Post-glacial climate forcing of surface processes in the Ganges-Brahmaputra river basin and implications for carbon sequestration. <i>Earth and Planetary Science Letters</i> , 2017, 478, 89-101.	4.4	41

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37	Combined effect of carbonate and biotite dissolution in landslides biases silicate weathering proxies. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 418-434.	3.9	12
38	Rapid reactions between CO ₂ , brine and silicate minerals during geological carbon storage: Modelling based on a field CO ₂ injection experiment. <i>Chemical Geology</i> , 2017, 468, 17-31.	3.3	29
39	Co-magmatic sulfides and sulfates in the Udachnaya-East pipe (Siberia): A record of the redox state and isotopic composition of sulfur in kimberlites and their mantle sources. <i>Chemical Geology</i> , 2017, 455, 315-330.	3.3	35
40	Oxidation of sulfides and rapid weathering in recent landslides. <i>Earth Surface Dynamics</i> , 2016, 4, 727-742.	2.4	26
41	Plateau uplift forcing climate change around 8.6 Ma on the northeastern Tibetan Plateau: Evidence from an integrated sedimentary Sr record. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 461, 418-431.	2.3	29
42	Chemical weathering in active mountain belts controlled by stochastic bedrock landsliding. <i>Nature Geoscience</i> , 2016, 9, 42-45.	12.9	80
43	Interhemispheric controls on deep ocean circulation and carbon chemistry during the last two glacial cycles. <i>Paleoceanography</i> , 2015, 30, 621-641.	3.0	32
44	Quaternary climate modulation of Pb isotopes in the deep Indian Ocean linked to the Himalayan chemical weathering. <i>Earth and Planetary Science Letters</i> , 2015, 424, 256-268.	4.4	18
45	On discrimination between carbonate and silicate inputs to Himalayan rivers. <i>Numerische Mathematik</i> , 2015, 315, 120-166.	1.4	45
46	Carbonate composition and its impact on fluvial geochemistry in the NE Tibetan Plateau region. <i>Chemical Geology</i> , 2015, 410, 138-148.	3.3	14
47	Mn-Cr systematics in primitive meteorites: Insights from mineral separation and partial dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 156, 1-24.	3.9	66
48	Redistribution of multi-phase particulate organic carbon in a marine shelf and canyon system during an exceptional river flood: Effects of Typhoon Morakot on the Gaoping River-Canyon system. <i>Marine Geology</i> , 2015, 363, 191-201.	2.1	29
49	Paleoenvironmental implications of uranium concentrations in lacustrine calcareous clastic-evaporite deposits in the western Qaidam Basin. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 417, 422-431.	2.3	28
50	Preservation of terrestrial organic carbon in marine sediments offshore Taiwan: mountain building and atmospheric carbon dioxide sequestration. <i>Earth Surface Dynamics</i> , 2014, 2, 127-139.	2.4	106
51	Paleoclimatic significance of rare earth element record of the calcareous lacustrine sediments from a long core (SG-1) in the western Qaidam Basin, NE Tibetan Plateau. <i>Journal of Geochemical Exploration</i> , 2014, 145, 223-232.	3.2	24
52	Germanium isotope fractionation during Ge adsorption on goethite and its coprecipitation with Fe oxy(hydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 138-149.	3.9	37
53	Runoff-driven export of particulate organic carbon from soil in temperate forested uplands. <i>Earth and Planetary Science Letters</i> , 2013, 365, 198-208.	4.4	77
54	Isotope evidence for secondary sulfide precipitation along the Marsyandi River, Nepal, Himalayas. <i>Earth and Planetary Science Letters</i> , 2013, 374, 36-46.	4.4	64

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55	Quaternary paleolake nutrient evolution and climatic change in the western Qaidam Basin deduced from phosphorus geochemistry record of deep drilling core SG-1. <i>Quaternary International</i> , 2013, 313-314, 156-167.	1.5	23
56	The sources and fluxes of dissolved chemistry in a semi-confined, sandy coastal aquifer: The Pingtung Plain, Taiwan. <i>Applied Geochemistry</i> , 2013, 33, 222-236.	3.0	3
57	Late Pliocene–Quaternary evolution of redox conditions in the western Qaidam paleolake (NE Tibetan) Tj ETQq1 1 0.784314 rgBT / 0.586-595.	1.7	38
58	Reactivity of neodymium carriers in deep sea sediments: Implications for boundary exchange and paleoceanography. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 197-221.	3.9	117
59	Automated Analysis of Carbon in Powdered Geological and Environmental Samples by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2013, 67, 779-788.	2.2	21
60	Geomorphic control on the $\delta^{15}N$ of mountain forests. <i>Biogeosciences</i> , 2013, 10, 1693-1705.	3.3	46
61	A boundary exchange influence on deglacial neodymium isotope records from the deep western Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2012, 341-344, 35-47.	4.4	63
62	Anthropogenic accumulation of metals and metalloids in carbonate-rich sediments: Insights from the ancient harbor setting of Tyre (Lebanon). <i>Geochimica Et Cosmochimica Acta</i> , 2012, 82, 23-38.	3.9	21
63	Climatic and geomorphic controls on the erosion of terrestrial biomass from subtropical mountain forest. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	79
64	Reconstructing deglacial North and South Atlantic deep water sourcing using foraminiferal Nd isotopes. <i>Earth and Planetary Science Letters</i> , 2012, 357-358, 289-297.	4.4	85
65	Erosion-driven drawdown of atmospheric carbon dioxide: The organic pathway. <i>Applied Geochemistry</i> , 2011, 26, S285-S287.	3.0	13
66	Contribution of deep groundwater to the weathering budget in a rapidly eroding mountain belt, Taiwan. <i>Earth and Planetary Science Letters</i> , 2011, 303, 48-58.	4.4	129
67	Multiple implications of rare earth elements for Holocene environmental changes in Nam Co, Tibet. <i>Quaternary International</i> , 2011, 236, 96-106.	1.5	10
68	Mobilization and transport of coarse woody debris to the oceans triggered by an extreme tropical storm. <i>Limnology and Oceanography</i> , 2011, 56, 77-85.	3.1	162
69	Significance of the clay mineral distribution in fluvial sediments of the Neogene to Recent Himalayan Foreland Basin (west-central Nepal). <i>Basin Research</i> , 2011, 23, 332-345.	2.7	32
70	Landslide impact on organic carbon cycling in a temperate montane forest. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1670-1679.	2.5	79
71	Efficient transport of fossil organic carbon to the ocean by steep mountain rivers: An orogenic carbon sequestration mechanism. <i>Geology</i> , 2011, 39, 71-74.	4.4	142
72	The isotopic composition of particulate organic carbon in mountain rivers of Taiwan. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3164-3181.	3.9	112

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73	Evaporite minerals and geochemistry of the upper 400m sediments in a core from the Western Qaidam Basin, Tibet. <i>Quaternary International</i> , 2010, 218, 176-189.	1.5	58
74	Calcium isotope ratios in the world's largest rivers: A constraint on the maximum imbalance of oceanic calcium fluxes. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	67
75	Indian Ocean circulation and productivity during the last glacial cycle. <i>Earth and Planetary Science Letters</i> , 2009, 285, 179-189.	4.4	95
76	Tropical-cyclone-driven erosion of the terrestrial biosphere from mountains. <i>Nature Geoscience</i> , 2008, 1, 759-762.	12.9	264
77	Riverine particulate organic carbon from an active mountain belt: Importance of landslides. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	148
78	Himalayan metamorphic CO ₂ fluxes: Quantitative constraints from hydrothermal springs. <i>Earth and Planetary Science Letters</i> , 2008, 265, 616-629.	4.4	123
79	Calcium and magnesium isotope systematics in rivers draining the Himalaya-Tibetan-Plateau region: Lithological or fractionation control?. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1057-1075.	3.9	191
80	Primordial compositions of refractory inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3001-3021.	3.9	58
81	Accuracy of stable Mg and Ca isotope data obtained by MC-ICP-MS using the standard addition method. <i>Chemical Geology</i> , 2008, 257, 65-75.	3.3	120
82	Himalaya–Carbon Sink or Source?. <i>Science</i> , 2008, 320, 1727-1728.	12.6	80
83	Interpreting the Ca isotope record of marine biogenic carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3979-3989.	3.9	78
84	Riverine evidence for a fractionated reservoir of Ca and Mg on the continents: Implications for the oceanic Ca cycle. <i>Earth and Planetary Science Letters</i> , 2006, 247, 267-279.	4.4	272
85	The magnesium isotope budget of the modern ocean: Constraints from riverine magnesium isotope ratios. <i>Earth and Planetary Science Letters</i> , 2006, 250, 241-253.	4.4	300
86	The short term climatic sensitivity of carbonate and silicate weathering fluxes: Insight from seasonal variations in river chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2737-2754.	3.9	245
87	Experimental study of germanium adsorption on goethite and germanium coprecipitation with iron hydroxide: X-ray absorption fine structure and macroscopic characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3325-3341.	3.9	80
88	Germanium isotopic variations in igneous rocks and marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3387-3400.	3.9	77
89	Supra-Canonical ²⁶ Al/ ²⁷ Al and the Residence Time of CAIs in the Solar Protoplanetary Disk. <i>Science</i> , 2005, 308, 223-227.	12.6	147
90	Negligible temperature dependence of calcium isotope fractionation in 12 species of planktonic foraminifera. <i>Earth and Planetary Science Letters</i> , 2005, 232, 51-66.	4.4	94

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91	Tectonic and climatic controls on silicate weathering. <i>Earth and Planetary Science Letters</i> , 2005, 235, 211-228.	4.4	781
92	6. The Isotope Geochemistry and Cosmochemistry of Magnesium. , 2004, , 197-230.		32
93	A Reflection on Mg, Cd, Ca, Li and Si Isotopic Measurements and Related Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 139-148.	1.9	59
94	The Isotope Geochemistry and Cosmochemistry of Magnesium. <i>Reviews in Mineralogy and Geochemistry</i> , 2004, 55, 197-230.	4.8	298
95	Himalayan sedimentary pulses recorded by silicate detritus within a ferromanganese crust from the Central Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2003, 205, 337-348.	4.4	32
96	Magnesium isotope heterogeneity of the isotopic standard SRM980 and new reference materials for magnesium-isotope-ratio measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1352.	3.0	367
97	High precision measurement of germanium isotope ratio variations by multiple collector-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 115-119.	3.0	29
98	Mg isotope heterogeneity in the Allende meteorite measured by UV laser ablation-MC-ICPMS and comparisons with O isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 683-698.	3.9	85
99	Kinetic and equilibrium mass-dependent isotope fractionation laws in nature and their geochemical and cosmochemical significance. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1095-1104.	3.9	774
100	Mg isotopic composition of carbonate: insight from speleothem formation. <i>Earth and Planetary Science Letters</i> , 2002, 201, 105-115.	4.4	221
101	Evaluation of the accuracy of the determination of lead isotope ratios in wine by ICP MS using quadrupole, multicollector magnetic sector and time-of-flight analyzers. <i>Talanta</i> , 2001, 54, 307-317.	5.5	80
102	High-precision measurement of magnesium isotopes by multiple-collector inductively coupled plasma mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2001, 208, 89-98.	1.5	218
103	Propagation of the thrust system and erosion in the Lesser Himalaya: Geochemical and sedimentological evidence. <i>Geology</i> , 2001, 29, 1007.	4.4	104
104	Higher erosion rates in the Himalaya: Geochemical constraints on riverine fluxes. <i>Geology</i> , 2001, 29, 23.	4.4	361
105	The Formation of Chondrules at High Gas Pressures in the Solar Nebula. , 2000, 290, 1751-1753.		154
106	High-precision measurement of calcium isotopes in carbonates and related materials by multiple collector inductively coupled plasma mass spectrometry (MC-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1835-1838.	3.0	114
107	Weathering processes in the Gangesâ€“Brahmaputra basin and the riverine alkalinity budget. <i>Chemical Geology</i> , 1999, 159, 31-60.	3.3	567
108	The strontium isotopic budget of Himalayan rivers in Nepal and Bangladesh. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1905-1925.	3.9	253

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109	GPS measurements of present-day convergence across the Nepal Himalaya. <i>Nature</i> , 1997, 386, 61-64.	27.8	641
110	The Late Oligocene-Early Miocene Himalayan belt Constraints deduced from isotopic compositions of Early Miocene turbidites in the Bengal Fan. <i>Tectonophysics</i> , 1996, 260, 109-118.	2.2	73
111	Expedition 354 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	20
112	Micro-structures, mineralogy and geochemistry of clay size fraction (< 2 μm) of thrust zones of western Nepal Siwaliks (Karnali area). <i>Journal of Nepal Geological Society</i> , 0, 18, 239-248.	0.2	7
113	Site U1453. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
114	Site U1449. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0
115	Site U1455. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
116	Site U1451. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
117	Expedition 354 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	16
118	Site U1450. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	7
119	Site U1454. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
120	Site U1452. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	8
121	Expedition 354 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0
122	Expedition 354 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0
123	Site U1449. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0
124	Site U1450. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0
125	Site U1451. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0
126	Site U1452. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	0

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127	Site U1453. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
128	Site U1454. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
129	Site U1455. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
130	Tectonic control on the palaeogeographical evolution of the Miocene Seaway along the Western Alpine foreland basin. Geological Society Special Publication, 0, , SP523-2021-78.	1.3	2