Albert Galy

List of Publications by Year
in descending order

130	10,627	34105	32842
papers	citations	52 h-index	100 g-index

145	145	145	7646
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tectonic and climatic controls on silicate weathering. Earth and Planetary Science Letters, 2005, 235, 211-228.	4.4	781
2	Kinetic and equilibrium mass-dependent isotope fractionation laws in nature and their geochemical and cosmochemical significance. Geochimica Et Cosmochimica Acta, 2002, 66, 1095-1104.	3.9	774
3	GPS measurements of present-day convergence across the Nepal Himalaya. Nature, 1997, 386, 61-64.	27.8	641
4	Weathering processes in the Gangesâ€“Brahmaputra basin and the riverine alkalinity budget. Chemical Geology, 1999, 159, 31-60.	3.3	567
5	Magnesium isotope heterogeneity of the isotopic standard SRM980 and new reference materials for magnesium-isotope-ratio measurements. Journal of Analytical Atomic Spectrometry, 2003, 18, 1352.	3.0	367
6	Higher erosion rates in the Himalaya: Geochemical constraints on riverine fluxes. Geology, 2001, 29, 23.	4.4	361
7	The magnesium isotope budget of the modern ocean: Constraints from riverine magnesium isotope ratios. Earth and Planetary Science Letters, 2006, 250, 241-253.	4.4	300
8	The Isotope Geochemistry and Cosmochemistry of Magnesium. Reviews in Mineralogy and Geochemistry, 2004, 55, 197-230.	4.8	298
9	Riverine evidence for a fractionated reservoir of Ca and Mg on the continents: Implications for the oceanic Ca cycle. Earth and Planetary Science Letters, 2006, 247, 267-279.	4.4	272
10	Tropical-cyclone-driven erosion of the terrestrial biosphere from mountains. Nature Geoscience, 2008, 1, 759-762.	12.9	264
11	The strontium isotopic budget of Himalayan rivers in Nepal and Bangladesh. Geochimica Et Cosmochimica Acta, 1999, 63, 1905-1925.	3.9	253
12	The short term climatic sensitivity of carbonate and silicate weathering fluxes: Insight from seasonal variations in river chemistry. Geochimica Et Cosmochimica Acta, 2006, 70, 2737-2754.	3.9	245
13	Mg isotopic composition of carbonate: insight from speleothem formation. Earth and Planetary Science Letters, 2002, 201, 105-115.	4.4	221
14	High-precision measurement of magnesium isotopes by multiple-collector inductively coupled plasma mass spectrometry. International Journal of Mass Spectrometry, 2001, 208, 89-98.	1.5	218
15	Calcium and magnesium isotope systematics in rivers draining the Himalaya-Tibetan-Plateau region: Lithological or fractionation control?. Geochimica Et Cosmochimica Acta, 2008, 72, 1057-1075.	3.9	191
16	Transitory microbial habitat in the hyperarid Atacama Desert. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2670-2675.	7.1	172
17	Mobilization and transport of coarse woody debris to the oceans triggered by an extreme tropical storm. Limnology and Oceanography, 2011, 56, 77-85.	3.1	162
18	The Formation of Chondrules at High Gas Pressures in the Solar Nebula. , 2000, 290, 1751-1753.		154

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19	Riverine particulate organic carbon from an active mountain belt: Importance of landslides. Global Biogeochemical Cycles, 2008, 22, .	4.9	148
20	Supra-Canonical 26Al/27Al and the Residence Time of CAIs in the Solar Protoplanetary Disk. Science, 2005, 308, 223-227.	12.6	147
21	Efficient transport of fossil organic carbon to the ocean by steep mountain rivers: An orogenic carbon sequestration mechanism. Geology, 2011, 39, 71-74.	4.4	142
22	Contribution of deep groundwater to the weathering budget in a rapidly eroding mountain belt, Taiwan. Earth and Planetary Science Letters, 2011, 303, 48-58.	4.4	129
23	Himalayan metamorphic CO2 fluxes: Quantitative constraints from hydrothermal springs. Earth and Planetary Science Letters, 2008, 265, 616-629.	4.4	123
24	Accuracy of stable Mg and Ca isotope data obtained by MC-ICP-MS using the standard addition method. Chemical Geology, 2008, 257, 65-75.	3.3	120
25	Reactivity of neodymium carriers in deep sea sediments: Implications for boundary exchange and paleoceanography. Geochimica Et Cosmochimica Acta, 2013, 109, 197-221.	3.9	117
26	High-precision measurement of calcium isotopes in carbonates and related materials by multiple collector inductively coupled plasma mass spectrometry (MC-ICP-MS). Journal of Analytical Atomic Spectrometry, 1999, 14, 1835-1838.	3.0	114
27	The isotopic composition of particulate organic carbon in mountain rivers of Taiwan. Geochimica Et Cosmochimica Acta, 2010, 74, 3164-3181.	3.9	112
28	Preservation of terrestrial organic carbon in marine sediments offshore Taiwan: mountain building and atmospheric carbon dioxide sequestration. Earth Surface Dynamics, 2014, 2, 127-139.	2.4	106
29	Propagation of the thrust system and erosion in the Lesser Himalaya: Geochemical and sedimentological evidence. Geology, 2001, 29, 1007.	4.4	104
30	Indian Ocean circulation and productivity during the last glacial cycle. Earth and Planetary Science Letters, 2009, 285, 179-189.	4.4	95
31	Negligible temperature dependence of calcium isotope fractionation in 12 species of planktonic foraminifera. Earth and Planetary Science Letters, 2005, 232, 51-66.	4.4	94
32	Paleogene global coolingâ€“induced temperature feedback on chemical weathering, as recorded in the northern Tibetan Plateau. Geology, 2019, 47, 992-996.	4.4	88
33	Mg isotope heterogeneity in the Allende meteorite measured by UV laser ablation-MC-ICPMS and comparisons with O isotopes. Geochimica Et Cosmochimica Acta, 2002, 66, 683-698.	3.9	85
34	Reconstructing deglacial North and South Atlantic deep water sourcing using foraminiferal Nd isotopes. Earth and Planetary Science Letters, 2012, 357-358, 289-297.	4.4	85
35	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. Talanta, 2001, 54, 307-317.	5.5	80
36	Experimental study of germanium adsorption on goethite and germanium coprecipitation with iron hydroxide: X-ray absorption fine structure and macroscopic characterization. Geochimica Et Cosmochimica Acta, 2006, 70, 3325-3341.	3.9	80

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37	Himalaya–Carbon Sink or Source?. Science, 2008, 320, 1727-1728.	12.6	80
38	Chemical weathering in active mountain belts controlled by stochastic bedrock landsliding. Nature Geoscience, 2016, 9, 42-45.	12.9	80
39	Landslide impact on organic carbon cycling in a temperate montane forest. Earth Surface Processes and Landforms, 2011, 36, 1670-1679.	2.5	79
40	Climatic and geomorphic controls on the erosion of terrestrial biomass from subtropical mountain forest. Global Biogeochemical Cycles, 2012, 26, .	4.9	79
41	Interpreting the Ca isotope record of marine biogenic carbonates. Geochimica Et Cosmochimica Acta, 2007, 71, 3979-3989.	3.9	78
42	Germanium isotopic variations in igneous rocks and marine sediments. Geochimica Et Cosmochimica Acta, 2006, 70, 3387-3400.	3.9	77
43	Runoff-driven export of particulate organic carbon from soil in temperate forested uplands. Earth and Planetary Science Letters, 2013, 365, 198-208.	4.4	77
44	The Late Oligocene-Early Miocene Himalayan belt Constraints deduced from isotopic compositions of Early Miocene turbidites in the Bengal Fan. Tectonophysics, 1996, 260, 109-118.	2.2	73
45	Co-variation of silicate, carbonate and sulfide weathering drives CO2 release with erosion. Nature Geoscience, 2021, 14, 211-216.	12.9	70
46	Calcium isotope ratios in the world's largest rivers: A constraint on the maximum imbalance of oceanic calcium fluxes. Global Biogeochemical Cycles, 2010, 24, .	4.9	67
47	Mnâ€“Cr systematics in primitive meteorites: Insights from mineral separation and partial dissolution. Geochimica Et Cosmochimica Acta, 2015, 156, 1-24.	3.9	66
48	Isotope evidence for secondary sulfide precipitation along the Marsyandi River, Nepal, Himalayas. Earth and Planetary Science Letters, 2013, 374, 36-46.	4.4	64
49	A boundary exchange influence on deglacial neodymium isotope records from the deep western Indian Ocean. Earth and Planetary Science Letters, 2012, 341-344, 35-47.	4.4	63
50	A Reflection on Mg, Cd, Ca, Li and Si Isotopic Measurements and Related Reference Materials. Geostandards and Geoanalytical Research, 2004, 28, 139-148.	1.9	59
51	Primordial compositions of refractory inclusions. Geochimica Et Cosmochimica Acta, 2008, 72, 3001-3021.	3.9	58
52	Evaporite minerals and geochemistry of the upper 400m sediments in a core from the Western Qaidam Basin, Tibet. Quaternary International, 2010, 218, 176-189.	1.5	58
53	Li isotopes in the middle Yellow River: Seasonal variability, sources and fractionation. Geochimica Et Cosmochimica Acta, 2019, 248, 88-108.	3.9	57
54	Geomorphic control on the Î´¹⁵N of mountain forests. Biogeosciences, 2013, 10, 1693-1705.	3.3	46

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55	On discrimination between carbonate and silicate inputs to Himalayan rivers. Numerische Mathematik, 2015, 315, 120-166.	1.4	45
56	Chemical weathering outputs from the flood plain of the Ganga. Geochimica Et Cosmochimica Acta, 2018, 225, 146-175.	3.9	43
57	Sustained wood burial in the Bengal Fan over the last 19 My. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22518-22525.	7.1	43
58	Post-glacial climate forcing of surface processes in the Gangesâ€“Brahmaputra river basin and implications for carbon sequestration. Earth and Planetary Science Letters, 2017, 478, 89-101.	4.4	41
59	Late Plioceneâ€“Quaternary evolution of redox conditions in the western Qaidam paleolake (NE Tibetan) Tj ETQq1 1 0.784314 rgBT /Ov 586-595.	1.7	38
60	Seasonal riverine barium isotopic variation in the middle Yellow River: Sources and fractionation. Earth and Planetary Science Letters, 2020, 531, 115990.	4.4	38
61	Germanium isotope fractionation during Ge adsorption on goethite and its coprecipitation with Fe oxy(hydr)oxides. Geochimica Et Cosmochimica Acta, 2014, 131, 138-149.	3.9	37
62	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. Chemical Geology, 2017, 455, 315-330.	3.3	35
63	Late Miocene Intensified Tectonic Uplift and Climatic Aridification on the Northeastern Tibetan Plateau: Evidence From Clay Mineralogical and Geochemical Records in the Xining Basin. Geochemistry, Geophysics, Geosystems, 2019, 20, 829-851.	2.5	34
64	Himalayan sedimentary pulses recorded by silicate detritus within a ferromanganese crust from the Central Indian Ocean. Earth and Planetary Science Letters, 2003, 205, 337-348.	4.4	32
65	6. The Isotope Geochemistry and Cosmochemistry of Magnesium. , 2004, , 197-230.		32
66	Significance of the clay mineral distribution in fluvial sediments of the Neogene to Recent Himalayan Foreland Basin (west-central Nepal). Basin Research, 2011, 23, 332-345.	2.7	32
67	Interhemispheric controls on deep ocean circulation and carbon chemistry during the last two glacial cycles. Paleoceanography, 2015, 30, 621-641.	3.0	32
68	Weathering of Reactive Mineral Phases in Landslides Acts as a Source of Carbon Dioxide in Mountain Belts. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2695-2713.	2.8	32
69	High precision measurement of germanium isotope ratio variations by multiple collector-inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2003, 18, 115-119.	3.0	29
70	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 Riverâ€“Canyon system. Marine Geology, 2015, 363, 191-201.	2.1	29
71	Plateau uplift forcing climate change around 8.6 Ma on the northeastern Tibetan Plateau: Evidence from an integrated sedimentary Sr record. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 461, 418-431.	2.3	29
72	Rapid reactions between CO2, brine and silicate minerals during geological carbon storage: Modelling based on a field CO2 injection experiment. Chemical Geology, 2017, 468, 17-31.	3.3	29

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73	Paleoenvironmental implications of uranium concentrations in lacustrine calcareous clastic-evaporite deposits in the western Qaidam Basin. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 417, 422-431.	2.3	28
74	Oxidation of sulfides and rapid weathering in recent landslides. Earth Surface Dynamics, 2016, 4, 727-742.	2.4	26
75	Eolian dust forcing of river chemistry on the northeastern Tibetan Plateau since 8 Ma. Earth and Planetary Science Letters, 2017, 464, 200-210.	4.4	26
76	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. Journal of Geochemical Exploration, 2014, 145, 223-232.	3.2	24
77	Quaternary paleolake nutrient evolution and climatic change in the western Qaidam Basin deduced from phosphorus geochemistry record of deep drilling core SG-1. Quaternary International, 2013, 313-314, 156-167.	1.5	23
78	Anthropogenic accumulation of metals and metalloids in carbonate-rich sediments: Insights from the ancient harbor setting of Tyre (Lebanon). Geochimica Et Cosmochimica Acta, 2012, 82, 23-38.	3.9	21
79	Automated Analysis of Carbon in Powdered Geological and Environmental Samples by Raman Spectroscopy. Applied Spectroscopy, 2013, 67, 779-788.	2.2	21
80	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. Geochimica Et Cosmochimica Acta, 2021, 296, 38-55.	3.9	20
81	Expedition 354 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	20
82	Quaternary climate modulation of Pb isotopes in the deep Indian Ocean linked to the Himalayan chemical weathering. Earth and Planetary Science Letters, 2015, 424, 256-268.	4.4	18
83	Survival of graphitized petrogenic organic carbon through multiple erosional cycles. Earth and Planetary Science Letters, 2020, 531, 115992.	4.4	18
84	Monsoonâ€Enhanced Silicate Weathering as a New Atmospheric CO₂ Consumption Mechanism Contributing to Fast Late Miocene Global Cooling. Paleoceanography and Paleoclimatology, 2021, 36, .	2.9	18
85	Site U1451. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	18
86	Expedition 354 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	16
87	Carbonate weathering dominates magnesium isotopes in large rivers: Clues from the Yangtze River. Chemical Geology, 2022, 588, 120677.	3.3	16
88	Evidence for early (â‰¥12.7 Ma) eolian dust impact on river chemistry in the northeastern Tibetan Plateau. Earth and Planetary Science Letters, 2019, 515, 79-89.	4.4	15
89	Effects of cone combinations on accurate and precise Mgâ€isotopic determination using multiâ€collector inductively coupled plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2019, 33, 351-360.	1.5	15
90	Miocene 87Sr/86Sr ratios of ostracods in the northern Qaidam Basin, NE Tibetan Plateau, and links with regional provenance, weathering and eolian input. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 552, 109775.	2.3	15

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91	Carbonate composition and its impact on fluvial geochemistry in the NE Tibetan Plateau region. Chemical Geology, 2015, 410, 138-148.	3.3	14
92	The effect of lithology on the relationship between denudation rate and chemical weathering pathways â€“ evidence from the eastern Tibetan Plateau. Earth Surface Dynamics, 2022, 10, 513-530.	2.4	14
93	Erosion-driven drawdown of atmospheric carbon dioxide: The organic pathway. Applied Geochemistry, 2011, 26, S285-S287.	3.0	13
94	Glacial-interglacial climate change on the northeastern Tibetan Plateau over the last 600 kyr. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 476, 181-191.	2.3	12
95	Combined effect of carbonate and biotite dissolution in landslides biases silicate weathering proxies. Geochimica Et Cosmochimica Acta, 2017, 213, 418-434.	3.9	12
96	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. Earth and Planetary Science Letters, 2020, 534, 116078.	4.4	12
97	Multiple implications of rare earth elements for Holocene environmental changes in Nam Co, Tibet. Quaternary International, 2011, 236, 96-106.	1.5	10
98	Climate transition in the Asia inland at 0.8â€“0.6ÂMa related to astronomically forced ice sheet expansion. Quaternary Science Reviews, 2020, 248, 106580.	3.0	9
99	Hydrated sulfate minerals (bloedite and polyhalite): formation and paleoenvironmental implications. Carbonates and Evaporites, 2020, 35, 1.	1.0	8
100	Changes in hydrodynamic process dominance (wave, tide or river) in foreland sequences: The subalpine Miocene Molasse revisited (France). Sedimentology, 2020, 67, 2455-2501.	3.1	8
101	Site U1452. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	8
102	Hydrothermal systems with radiogenic Sr in the North Qaidam ultrahigh-pressure metamorphic belt, NE Tibetan Plateau and implications for regional dissolved Sr budget. Applied Geochemistry, 2022, 138, 105214.	3.0	8
103	Chronology of thrust propagation from an updated tectono-sedimentary framework of the Miocene molasse (western Alps). Solid Earth, 2021, 12, 2735-2771.	2.8	8
104	No evidence for carbon enrichment in the mantle source of carbonatites in eastern Africa. Geology, 2020, 48, 971-975.	4.4	7
105	Micro-structures, mineralogy and geochemistry of clay size fraction (< 2 Âµm) of thrust zones of western Nepal Siwaliks (Karnali area). Journal of Nepal Geological Society, 0, 18, 239-248.	0.2	7
106	Site U1450. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	7
107	Geochemical evidence for carbon and chlorine enrichments in the mantle source of kimberlites (Udachnaya pipe, Siberian craton). Geochimica Et Cosmochimica Acta, 2021, 315, 295-316.	3.9	6
108	Trends and Transitions in Silicate Weathering in the Asian Interior (NE Tibet) Since 53ÂMa. Frontiers in Earth Science, 2022, 10, .	1.8	5

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109	East Asian monsoon intensification promoted weathering of the magnesium-rich southern China upper crust and its global significance. Science China Earth Sciences, 2021, 64, 1155-1170.	5.2	4
110	The sources and fluxes of dissolved chemistry in a semi-confined, sandy coastal aquifer: The Pingtung Plain, Taiwan. Applied Geochemistry, 2013, 33, 222-236.	3.0	3
111	On the significance of periglacial conditions in active mountain belts for chemical weathering processes: Insights from the Chayu area, SE Tibet. Chemical Geology, 2021, 585, 120581.	3.3	3
112	Industrially Purified Nd Materials Identified by Distinct Mass-Dependent Isotopic Composition. Frontiers in Environmental Chemistry, 2021, 2, .	1.6	2
113	Site U1453. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
114	Site U1455. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
115	Site U1454. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
116	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. Journal of Asian Earth Sciences, 2022, 223, 104983.	2.3	2
117	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
118	Sequestration of carbon as carbonate in the critical zone: insights from the Himalayas and Tibetan Plateau. Acta Geochimica, 2017, 36, 389-391.	1.7	1
119	Triple Oxygen and Hydrogen Isotopic Variations of Pore Waters from the Middle Bengal Fran (IODP) Tj ETQq1 1 0.784314 rgBT /Overl		1
120	Site U1449. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
121	The Carbon Budget of the Himalayan Orogeny from Source to Sink. , 2020, , .		0
122	Expedition 354 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
123	Expedition 354 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
124	Site U1449. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
125	Site U1450. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
126	Site U1451. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0

#	Article	IF	Citations
127	Site U1452. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
128	Site U1453. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
129	Site U1454. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0
130	Site U1455. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0