

Germain Bayon

List of Publications by Year in descending order

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95
papers

5,751
citations

101384

36
h-index

76769

74
g-index

97
all docs

97
docs citations

97
times ranked

5525
citing authors

#	ARTICLE	IF	CITATIONS
1	Hf isotope ratio analysis using multi-collector inductively coupled plasma mass spectrometry: an evaluation of isobaric interference corrections. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1567-1574.	1.6	1,087
2	Geochemistry of CI chondrites: Major and trace elements, and Cu and Zn Isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 83, 79-92.	1.6	301
3	An improved method for extracting marine sediment fractions and its application to Sr and Nd isotopic analysis. <i>Chemical Geology</i> , 2002, 187, 179-199.	1.4	257
4	Rare earth elements and neodymium isotopes in world river sediments revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 17-38.	1.6	239
5	Sedimentary Fe-Mn oxyhydroxides as paleoceanographic archives and the role of aeolian flux in regulating oceanic dissolved REE. <i>Earth and Planetary Science Letters</i> , 2004, 224, 477-492.	1.8	177
6	Intensifying Weathering and Land Use in Iron Age Central Africa. <i>Science</i> , 2012, 335, 1219-1222.	6.0	161
7	Sr/Ca and Mg/Ca ratios in Niger Delta sediments: Implications for authigenic carbonate genesis in cold seep environments. <i>Marine Geology</i> , 2007, 241, 93-109.	0.9	160
8	U-Th stratigraphy of a cold seep carbonate crust. <i>Chemical Geology</i> , 2009, 260, 47-56.	1.4	135
9	Rare earth elements and neodymium isotopes in sedimentary organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 177-198.	1.6	127
10	Millennial-scale fluctuations of the European Ice Sheet at the end of the last glacial, and their potential impact on global climate. <i>Quaternary Science Reviews</i> , 2015, 123, 113-133.	1.4	122
11	North Atlantic Deep Water Production during the Last Glacial Maximum. <i>Nature Communications</i> , 2016, 7, 11765.	5.8	120
12	Evidence for intense REE scavenging at cold seeps from the Niger Delta margin. <i>Earth and Planetary Science Letters</i> , 2011, 312, 443-452.	1.8	115
13	Hf and Nd isotopes in marine sediments: Constraints on global silicate weathering. <i>Earth and Planetary Science Letters</i> , 2009, 277, 318-326.	1.8	112
14	Rare earth elements in cold seep carbonates from the Niger delta. <i>Chemical Geology</i> , 2011, 286, 196-206.	1.4	108
15	Determination of Rare Earth Elements, Sc, Y, Zr, Ba, Hf and Th in Geological Samples by ICP-MS after Tm Addition and Alkaline Fusion. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 51-62.	1.7	107
16	Human impact overwhelms long-term climate control of weathering and erosion in southwest China. <i>Geology</i> , 2015, 43, 439-442.	2.0	107
17	Formation of carbonate chimneys in the Mediterranean Sea linked to deep-water oxygen depletion. <i>Nature Geoscience</i> , 2013, 6, 755-760.	5.4	105
18	Nature and origin of diagenetic carbonate crusts and concretions from mud volcanoes and pockmarks of the Nile deep-sea fan (eastern Mediterranean Sea). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1292-1311.	0.6	91

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19	Determination of rare earth elements and other trace elements (Y, Mn, Co, Cr) in seawater using Tm addition and Mg(OH) ₂ co-precipitation. <i>Talanta</i> , 2011, 85, 582-587.	2.9	90
20	Multi-disciplinary investigation of fluid seepage on an unstable margin: The case of the Central Nile deep sea fan. <i>Marine Geology</i> , 2009, 261, 92-104.	0.9	88
21	Formation of seep carbonates along the Makran convergent margin, northern Arabian Sea and a molecular and isotopic approach to constrain the carbon isotopic composition of parent methane. <i>Chemical Geology</i> , 2015, 415, 102-117.	1.4	84
22	The large-scale evolution of neodymium isotopic composition in the global modern and Holocene ocean revealed from seawater and archive data. <i>Chemical Geology</i> , 2017, 457, 131-148.	1.4	78
23	The control of weathering processes on riverine and seawater hafnium isotope ratios. <i>Geology</i> , 2006, 34, 433.	2.0	72
24	Neodymium associated with foraminiferal carbonate as a recorder of seawater isotopic signatures. <i>Quaternary Science Reviews</i> , 2014, 88, 1-13.	1.4	69
25	Abrupt drainage cycles of the Fennoscandian Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6682-6687.	3.3	63
26	Nd isotope constraints on ocean circulation, paleoclimate, and continental drainage during the Jurassic breakup of Pangea. <i>Gondwana Research</i> , 2015, 27, 1599-1615.	3.0	62
27	Paleo-environmental controls on cold seep carbonate authigenesis in the Sea of Marmara. <i>Earth and Planetary Science Letters</i> , 2013, 376, 200-211.	1.8	56
28	U-Th isotope constraints on gas hydrate and pockmark dynamics at the Niger delta margin. <i>Marine Geology</i> , 2015, 370, 87-98.	0.9	56
29	The Ponto-Caspian basin as a final trap for southeastern Scandinavian Ice-Sheet meltwater. <i>Quaternary Science Reviews</i> , 2016, 148, 29-43.	1.4	51
30	Determination of ultra-low ²³⁶ U/ ²³⁸ U isotope ratios by tandem quadrupole ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1372.	1.6	50
31	Hydrothermal carbonate chimneys from a continental rift (Afar Rift): Mineralogy, geochemistry, and mode of formation. <i>Chemical Geology</i> , 2014, 387, 87-100.	1.4	50
32	Menes caldera, a highly active site of brine seepage in the Eastern Mediterranean sea: <i>in situ</i> observations from the NAUTINIL expedition (2003). <i>Marine Geology</i> , 2009, 261, 138-152.	0.9	48
33	Environmental Hf ^ε -Nd isotopic decoupling in World river clays. <i>Earth and Planetary Science Letters</i> , 2016, 438, 25-36.	1.8	46
34	Using chemical compositions of sediments to constrain methane seepage dynamics: A case study from Haima cold seeps of the South China Sea. <i>Journal of Asian Earth Sciences</i> , 2018, 168, 137-144.	1.0	45
35	Multi-Element Determination of Trace Elements in Natural Water Reference Materials by ICP-MS after Tm Addition and Iron Co-precipitation. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 145-153.	1.7	44
36	Authigenic carbonates related to active seepage of methane-rich hot brines at the Cheops mud volcano, Menes caldera (Nile deep-sea fan, eastern Mediterranean Sea). <i>Geo-Marine Letters</i> , 2014, 34, 253-267.	0.5	41

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37	Gas Hydrate Dissociation During Sea-Level Highstand Inferred From U/Th Dating of Seep Carbonate From the South China Sea. <i>Geophysical Research Letters</i> , 2019, 46, 13928-13938.	1.5	39
38	Trace element behaviour at cold seeps and the potential export of dissolved iron to the ocean. <i>Earth and Planetary Science Letters</i> , 2014, 404, 376-388.	1.8	38
39	Marine Isotope Stage 4 in Australasia: A full glacial culminating 65,000 years ago – Global connections and implications for human dispersal. <i>Quaternary Science Reviews</i> , 2019, 204, 187-207.	1.4	38
40	Abrupt response of chemical weathering to Late Quaternary hydroclimate changes in northeast Africa. <i>Scientific Reports</i> , 2017, 7, 44231.	1.6	34
41	The silicon isotopic composition of fine-grained river sediments and its relation to climate and lithology. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 229, 147-161.	1.6	33
42	Fossil evidence for serpentinization fluids fueling chemosynthetic assemblages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7698-7703.	3.3	32
43	Controls on the geochemistry of suspended sediments from large tropical South American rivers (Amazon, Orinoco and Maroni). <i>Chemical Geology</i> , 2019, 522, 38-54.	1.4	32
44	Description of a contourite depositional system on the Demerara Plateau: Results from geophysical data and sediment cores. <i>Marine Geology</i> , 2016, 378, 56-73.	0.9	28
45	Evolution of neodymium isotopic signature of seawater during the Late Cretaceous: Implications for intermediate and deep circulation. <i>Gondwana Research</i> , 2016, 36, 503-522.	3.0	28
46	Lithium Isotope Composition of Marine Biogenic Carbonates and Related Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 403-415.	1.7	28
47	Enhanced surface melting of the Fennoscandian Ice Sheet during periods of North Atlantic cooling. <i>Geology</i> , 2019, 47, 664-668.	2.0	27
48	The North Atlantic Glacial Eastern Boundary Current as a Key Driver for Ice-Sheet-AMOC Interactions and Climate Instability. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004068.	1.3	25
49	The roles of climate and human land-use in the late Holocene rainforest crisis of Central Africa. <i>Earth and Planetary Science Letters</i> , 2019, 505, 30-41.	1.8	24
50	Linking Danube River activity to Alpine Ice-Sheet fluctuations during the last glacial (ca. 33–17 ka BP): Insights into the continental signature of Heinrich Stadials. <i>Quaternary Science Reviews</i> , 2020, 229, 106136.	1.4	24
51	Reconstruction of the Nd isotope composition of seawater on epicontinental seas: Testing the potential of Fe–Mn oxyhydroxide coatings on foraminifera tests for deep-time investigations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 39-56.	1.6	23
52	Microbial utilization of rare earth elements at cold seeps related to aerobic methane oxidation. <i>Chemical Geology</i> , 2020, 555, 119832.	1.4	23
53	Investigation on the geochemical dynamics of a hydrate-bearing pockmark in the Niger Delta. <i>Marine and Petroleum Geology</i> , 2013, 43, 297-309.	1.5	21
54	Triple oxygen isotope investigation of fine-grained sediments from major world's rivers: Insights into weathering processes and global fluxes into the hydrosphere. <i>Earth and Planetary Science Letters</i> , 2019, 528, 115851.	1.8	21

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55	Evolution of the neodymium isotopic signature of neritic seawater on a northwestern Pacific margin: new constrains on possible end-members for the composition of deep-water masses in the Late Cretaceous ocean. <i>Chemical Geology</i> , 2013, 356, 160-170.	1.4	20
56	A microbiological and biogeochemical investigation of the cold seep tubeworm <i>Escarpia southwardae</i> (Annelida: Siboglinidae): Symbiosis and trace element composition of the tube. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 90, 105-114.	0.6	20
57	Increased input of circumpolar deep water-borne detritus to the glacial SE Atlantic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	19
58	Focused hydrocarbon migration in shallow sediments of a pockmark cluster in the Niger Delta (Off) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	19
59	Extensive wet episodes in Late Glacial Australia resulting from high-latitude forcings. <i>Scientific Reports</i> , 2017, 7, 44054.	1.6	19
60	A new chemical separation procedure for the determination of rare earth elements and yttrium abundances in carbonates by ICP-MS. <i>Talanta</i> , 2020, 219, 121244.	2.9	19
61	Structure of the Demerara passive-transform margin and associated sedimentary processes. Initial results from the IGUANES cruise. <i>Geological Society Special Publication</i> , 2016, 431, 179-197.	0.8	18
62	Glacial erosion dynamics in a small mountainous watershed (Southern French Alps): A source-to-sink approach. <i>Earth and Planetary Science Letters</i> , 2017, 458, 366-379.	1.8	18
63	Seep-carbonate lamination controlled by cyclic particle flux. <i>Scientific Reports</i> , 2016, 6, 37439.	1.6	17
64	A global survey of radiogenic strontium isotopes in river sediments. <i>Chemical Geology</i> , 2021, 559, 119958.	1.4	17
65	Long-term evolution of terrestrial weathering and its link to Earth's oxygenation. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117490.	1.8	17
66	Geochemical provenance of sediments from the northern East China Sea document a gradual migration of the Asian Monsoon belt over the past 400,000 years. <i>Quaternary Science Reviews</i> , 2018, 190, 161-175.	1.4	16
67	Rare earth element and neodymium isotope tracing of sedimentary rock weathering. <i>Chemical Geology</i> , 2020, 553, 119794.	1.4	16
68	Formation and evolution of glauconite in the Demerara Contourite depositional system related to NADW circulation changes during late Quaternary (French Guiana). <i>Journal of South American Earth Sciences</i> , 2019, 92, 167-183.	0.6	15
69	Climate-Driven Weathering Shifts Between Highlands and Floodplains. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008936.	1.0	15
70	Geochemistry and mineralogy of a silica chimney from an inactive seafloor hydrothermal field (East) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.4	14
71	Trace element systematics in cold seep carbonates and associated lipid compounds. <i>Chemical Geology</i> , 2019, 528, 119277.	1.4	14
72	Dinocyst assemblage constraints on oceanographic and atmospheric processes in the eastern equatorial Atlantic over the last 44 kyr. <i>Biogeosciences</i> , 2016, 13, 4823-4841.	1.3	13

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73	Enhanced hydrological cycle during Oceanic Anoxic Event 2 at southern high latitudes: New insights from IODP Site U1516. <i>Global and Planetary Change</i> , 2022, 209, 103735.	1.6	13
74	Are deep-sea ecosystems surrounding Madagascar threatened by land-use or climate change?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 131, 93-100.	0.6	12
75	Redox changes in a seafloor hydrothermal system recorded in hematite-chalcopyrite chimneys. <i>Chemical Geology</i> , 2018, 483, 351-371.	1.4	12
76	Seafloor authigenic carbonate crusts along the submerged part of the North Anatolian Fault in the Sea of Marmara: Mineralogy, geochemistry, textures and genesis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 153, 92-109.	0.6	12
77	The distribution of (²³⁴ U/ ²³⁸ U) activity ratios in river sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 216-234.	1.6	12
78	Neodymium isotope constraints on chemical weathering and past glacial activity in Svalbard. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116319.	1.8	12
79	Origin of an enigmatic regional Mio-Pliocene unconformity on the Demerara plateau. <i>Marine Geology</i> , 2015, 365, 21-35.	0.9	11
80	Sulfate-dependent anaerobic oxidation of methane at a highly dynamic bubbling site in the Eastern Sea of Marmara (Ařınarcık Basin). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 153, 79-91.	0.6	11
81	Geochemical methods to infer landscape response to Quaternary climate change and land use in depositional archives: A review. <i>Earth-Science Reviews</i> , 2020, 207, 103218.	4.0	11
82	Evidence and age estimation of mass wasting at the distal lobe of the Congo deep-sea fan. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 142, 50-63.	0.6	10
83	Gas Seepage along the Edge of the Aquitaine Shelf (France): Origin and Local Fluxes. <i>Geofluids</i> , 2017, 2017, 1-13.	0.3	10
84	Quaternary sediment dispersal in the Zambezi turbidite system (SW Indian Ocean). <i>Marine Geology</i> , 2020, 428, 106276.	0.9	10
85	The Congo deep-sea fan: Mineralogical, REE, and Nd-isotope variability in quartzose passive-margin sand. <i>Journal of Sedimentary Research</i> , 2021, 91, 433-450.	0.8	10
86	Co-variations of climate and silicate weathering in the Nile Basin during the Late Pleistocene. <i>Quaternary Science Reviews</i> , 2021, 264, 107012.	1.4	10
87	Hafnium-nd neodymium isotope evidence for enhanced weathering and uplift-climate interactions during the Late Cretaceous. <i>Chemical Geology</i> , 2022, 591, 120724.	1.4	9
88	Constraints on the source of reactive phases in sediment from a major Arctic river using neodymium isotopes. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116933.	1.8	8
89	Preferential Riverine Export of Fine Volcanogenic Particles to the Southeast Australian Margin. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	8
90	Neodymium Isotopes in Glauconite for Palaeoceanographic Reconstructions at Continental Margins: A Preliminary Investigation From Demerara Rise. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	7

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91	Response to Comments on "Intensifying Weathering and Land Use in Iron Age Central Africa" Science, 2012, 337, 1040-1040.	6.0	5
92	The Last Glacial Maximum Balearic Abyssal Plain megabed revisited. Geological Society Special Publication, 2020, 500, 341-357.	0.8	3
93	Glacial and environmental changes in northern Svalbard over the last 16.3 ka inferred from neodymium isotopes. Global and Planetary Change, 2021, 201, 103483.	1.6	3
94	A deep-sea agglutinated foraminifer tube constructed with planktonic foraminifer shells of a single species. Journal of Micropalaeontology, 2018, 37, 97-104.	1.3	3
95	Echofacies interpretation of Pleistocene to Holocene contourites on the Demerara Plateau and abyssal plain. Interpretation, 2021, 9, SB49-SB65.	0.5	1