

# Germain Bayon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5645992/publications.pdf>

Version: 2024-02-01

95  
papers

5,751  
citations

101496

36  
h-index

76872

74  
g-index

97  
all docs

97  
docs citations

97  
times ranked

5525  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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        |
| 2  | Hafnium-neodymium isotope evidence for enhanced weathering and uplift-climate interactions during the Late Cretaceous. <i>Chemical Geology</i> , 2022, 591, 120724.  | 1.4 | 9         |
| 3  | 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        |
| 4  | A global survey of radiogenic strontium isotopes in river sediments. <i>Chemical Geology</i> , 2021, 559, 119958.  | 1.4 | 17        |
| 5  | 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        |
| 6  | Echofacies interpretation of Pleistocene to Holocene contourites on the Demerara Plateau and abyssal plain. <i>Interpretation</i> , 2021, 9, SB49-SB65.  | 0.5 | 1         |
| 7  | 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         |
| 8  | 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        |
| 9  | Glacial and environmental changes in northern Svalbard over the last 16.3 ka inferred from neodymium isotopes. <i>Global and Planetary Change</i> , 2021, 201, 103483.   | 1.6 | 3         |
| 10 | 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        |
| 11 | 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         |
| 12 | 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        |
| 13 | Microbial utilization of rare earth elements at cold seeps related to aerobic methane oxidation. <i>Chemical Geology</i> , 2020, 555, 119832.  | 1.4 | 23        |
| 14 | Rare earth element and neodymium isotope tracing of sedimentary rock weathering. <i>Chemical Geology</i> , 2020, 553, 119794.  | 1.4 | 16        |
| 15 | The distribution of ( <sup>234</sup> U/ <sup>238</sup> U) activity ratios in river sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 216-234.   | 1.6 | 12        |
| 16 | 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        |
| 17 | Climate-Driven Weathering Shifts Between Highlands and Floodplains. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008936.   | 1.0 | 15        |
| 18 | Quaternary sediment dispersal in the Zambezi turbidite system (SW Indian Ocean). <i>Marine Geology</i> , 2020, 428, 106276.  | 0.9 | 10        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | The Last Glacial Maximum Balearic Abyssal Plain megabed revisited. <i>Geological Society Special Publication</i> , 2020, 500, 341-357.   | 0.8 | 3         |
| 22 | Preferential Riverine Export of Fine Volcanogenic Particles to the Southeast Australian Margin. <i>Frontiers in Marine Science</i> , 2020, 7, .  | 1.2 | 8         |
| 23 | Trace element systematics in cold seep carbonates and associated lipid compounds. <i>Chemical Geology</i> , 2019, 528, 119277.   | 1.4 | 14        |
| 24 | Enhanced surface melting of the Fennoscandian Ice Sheet during periods of North Atlantic cooling. <i>Geology</i> , 2019, 47, 664-668.  | 2.0 | 27        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | 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        |
| 31 | 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        |
| 32 | Redox changes in a seafloor hydrothermal system recorded in hematite-chalcopyrite chimneys. <i>Chemical Geology</i> , 2018, 483, 351-371.  | 1.4 | 12        |
| 33 | 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        |
| 34 | 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        |
| 35 | Sulfate-dependent anaerobic oxidation of methane at a highly dynamic bubbling site in the Eastern Sea of Marmara (Ä±narçik Basin). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 153, 79-91.                                 | 0.6 | 11        |
| 36 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Lithium Isotope Composition of Marine Biogenic Carbonates and Related Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 403-415.   | 1.7 | 28        |
| 38 | 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        |
| 39 | A deep-sea agglutinated foraminifer tube constructed with planktonic foraminifer shells of a single species. <i>Journal of Micropalaeontology</i> , 2018, 37, 97-104.  | 1.3 | 3         |
| 40 | 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        |
| 41 | Focused hydrocarbon migration in shallow sediments of a pockmark cluster in the Niger Delta (Off) Tj ETQq1 1 0.784314 rgBT /Overlo   | 1.0 | 19        |
| 42 | 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        |
| 43 | Abrupt response of chemical weathering to Late Quaternary hydroclimate changes in northeast Africa. <i>Scientific Reports</i> , 2017, 7, 44231.  | 1.6 | 34        |
| 44 | Extensive wet episodes in Late Glacial Australia resulting from high-latitude forcings. <i>Scientific Reports</i> , 2017, 7, 44054.  | 1.6 | 19        |
| 45 | 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        |
| 46 | Gas Seepage along the Edge of the Aquitaine Shelf (France): Origin and Local Fluxes. <i>Geofluids</i> , 2017, 2017, 1-13.  | 0.3 | 10        |
| 47 | 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        |
| 48 | 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        |
| 49 | North Atlantic Deep Water Production during the Last Glacial Maximum. <i>Nature Communications</i> , 2016, 7, 11765.   | 5.8 | 120       |
| 50 | Seep-carbonate lamination controlled by cyclic particle flux. <i>Scientific Reports</i> , 2016, 6, 37439.  | 1.6 | 17        |
| 51 | Environmental Hf-Nd isotopic decoupling in World river clays. <i>Earth and Planetary Science Letters</i> , 2016, 438, 25-36.   | 1.8 | 46        |
| 52 | 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        |
| 53 | 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        |
| 54 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | 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       |
| 56 | 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        |
| 57 | Origin of an enigmatic regional Mio-Pliocene unconformity on the Demerara plateau. <i>Marine Geology</i> , 2015, 365, 21-35.  | 0.9 | 11        |
| 58 | Human impact overwhelms long-term climate control of weathering and erosion in southwest China. <i>Geology</i> , 2015, 43, 439-442.   | 2.0 | 107       |
| 59 | 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        |
| 60 | 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        |
| 61 | Rare earth elements and neodymium isotopes in world river sediments revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 17-38.   | 1.6 | 239       |
| 62 | 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        |
| 63 | 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        |
| 64 | 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        |
| 65 | Neodymium associated with foraminiferal carbonate as a recorder of seawater isotopic signatures. <i>Quaternary Science Reviews</i> , 2014, 88, 1-13.  | 1.4 | 69        |
| 66 | 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        |
| 67 | Rare earth elements and neodymium isotopes in sedimentary organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 177-198.  | 1.6 | 127       |
| 68 | 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        |
| 69 | Determination of ultra-low <sup>236</sup> U/ <sup>238</sup> U isotope ratios by tandem quadrupole ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1372.   | 1.6 | 50        |
| 70 | 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       |
| 71 | 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        |
| 72 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | 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        |
| 74 | 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        |
| 75 | Response to Comments on "Intensifying Weathering and Land Use in Iron Age Central Africa". <i>Science</i> , 2012, 337, 1040-1040.   | 6.0 | 5         |
| 76 | Intensifying Weathering and Land Use in Iron Age Central Africa. <i>Science</i> , 2012, 335, 1219-1222.   | 6.0 | 161       |
| 77 | Geochemistry of Cl chondrites: Major and trace elements, and Cu and Zn Isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 83, 79-92.  | 1.6 | 301       |
| 78 | 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        |
| 79 | Rare earth elements in cold seep carbonates from the Niger delta. <i>Chemical Geology</i> , 2011, 286, 196-206.   | 1.4 | 108       |
| 80 | 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       |
| 81 | Determination of rare earth elements and other trace elements (Y, Mn, Co, Cr) in seawater using Tm addition and Mg(OH) <sub>2</sub> co-precipitation. <i>Talanta</i> , 2011, 85, 582-587.   | 2.9 | 90        |
| 82 | 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        |
| 83 | 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        |
| 84 | 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       |
| 85 | 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        |
| 86 | Menes caldera, a highly active site of brine seepage in the Eastern Mediterranean sea: "In situ" observations from the NAUTINIL expedition (2003). <i>Marine Geology</i> , 2009, 261, 138-152.  | 0.9 | 48        |
| 87 | 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       |
| 88 | U-Th stratigraphy of a cold seep carbonate crust. <i>Chemical Geology</i> , 2009, 260, 47-56.   | 1.4 | 135       |
| 89 | 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        |
| 90 | 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       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 91 | The control of weathering processes on riverine and seawater hafnium isotope ratios. <i>Geology</i> , 2006, 34, 433.  | 2.0 | 72        |
| 92 | 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       |
| 93 | Increased input of circumpolar deep water-borne detritus to the glacial SE Atlantic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .   | 1.0 | 19        |
| 94 | 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     |
| 95 | 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       |