

# Sebastien Bertrand

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7359825/publications.pdf>

Version: 2024-02-01

63  
papers

1,686  
citations

201674

27  
h-index

315739

38  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2168  
citing authors

#	ARTICLE	IF	CITATIONS
1	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	5.3	112
2	Fjords as Aquatic Critical Zones (ACZs). <i>Earth-Science Reviews</i> , 2020, 203, 103145.	9.1	104
3	Radionuclide dating ( $^{210}\text{Pb}$ , $^{137}\text{Cs}$ , $^{241}\text{Am}$ ) of recent lake sediments in a highly active geodynamic setting (Lakes Puyehue and Icalma Chilean Lake District). <i>Science of the Total Environment</i> , 2006, 366, 837-850.	8.0	100
4	Reconstruction of the Holocene seismotectonic activity of the Southern Andes from seismites recorded in Lago Icalma, Chile, $39^{\circ}\text{S}$ . <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 259, 301-322.	2.3	72
5	Geochemistry of surface sediments from the fjords of Northern Chilean Patagonia ( $44^{\circ}$ - $47^{\circ}\text{S}$ ): Spatial variability and implications for paleoclimate reconstructions. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 76, 125-146.	3.9	63
6	Late Holocene sea-surface temperature and precipitation variability in northern Patagonia, Chile (Jacaft). <i>Journal of Paleolimnology</i> , 2008, 39, 179-195.	1.7	59
7	Climate variability of southern Chile since the Last Glacial Maximum: a continuous sedimentological record from Lago Puyehue ( $40^{\circ}\text{S}$ ). <i>Journal of Paleolimnology</i> , 2008, 39, 179-195.	1.6	55
8	Temporal evolution of sediment supply in Lago Puyehue (Southern Chile) during the last 600 yr and its climatic significance. <i>Quaternary Research</i> , 2005, 64, 163-175.	1.7	54
9	Deposition of the 2011-2012 Cordón Caulle tephra (Chile, $40^{\circ}\text{S}$ ) in lake sediments: Implications for tephrochronology and volcanology. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2555-2573.	2.8	48
10	Synchronisation of sedimentary records using tephra: A postglacial tephrochronological model for the Chilean Lake District. <i>Quaternary Science Reviews</i> , 2016, 137, 234-254.	3.0	46
11	Late Holocene covariability of the southern westerlies and sea surface temperature in northern Chilean Patagonia. <i>Quaternary Science Reviews</i> , 2014, 105, 195-208.	3.0	45
12	Late Quaternary evolution of Lago Castor (Chile, $45.6^{\circ}\text{S}$ ): Timing of the deglaciation in northern Patagonia and evolution of the southern westerlies during the last 17 kyr. <i>Quaternary Science Reviews</i> , 2016, 133, 130-146.	3.0	40
13	Seismic stratigraphy of Lago Puyehue (Chilean Lake District): new views on its deglacial and Holocene evolution. <i>Journal of Paleolimnology</i> , 2008, 39, 163-177.	1.6	35
14	Using the N/C ratio to correct bulk radiocarbon ages from lake sediments: Insights from Chilean Patagonia. <i>Quaternary Geochronology</i> , 2012, 12, 23-29.	1.4	35
15	Changes in diatom, pollen, and chironomid assemblages in response to a recent volcanic event in Lake Galletué (Chilean Andes). <i>Limnologica</i> , 2007, 37, 49-62.	1.5	34
16	Recent clastic sedimentation processes in Lake Puyehue (Chilean Lake District, $40.5^{\circ}\text{S}$ ). <i>Sedimentary Geology</i> , 2007, 201, 365-385.	2.1	34
17	Potentially large post-1505 AD earthquakes in western Nepal revealed by a lake sediment record. <i>Nature Communications</i> , 2019, 10, 2258.	12.8	33
18	Palaeolimnology of Lake Sapanca and identification of historic earthquake signals, Northern Anatolian Fault Zone (Turkey). <i>Quaternary Science Reviews</i> , 2009, 28, 991-1005.	3.0	32

#	ARTICLE	IF	CITATIONS
19	Bulk organic geochemistry of sediments from Puyehue Lake and its watershed (Chile, 40°S): Implications for paleoenvironmental reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 294, 56-71.	2.3	31
20	Precipitation as the main driver of Neoglacial fluctuations of Gualas glacier, Northern Patagonian Icefield. <i>Climate of the Past</i> , 2012, 8, 519-534.	3.4	31
21	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1570-1596.	2.9	30
22	Nature, origin, transport and deposition of andosol parent material in south-central Chile (36°-42°S). <i>Catena</i> , 2008, 73, 10-22.	5.0	29
23	Changes in diatom assemblages in an Andean lake in response to a recent volcanic event. <i>Archiv für Hydrobiologie</i> , 2006, 165, 23-35.	1.1	28
24	Postglacial fluctuations of Cordillera Darwin glaciers (southernmost Patagonia) reconstructed from Almirantazgo fjord sediments. <i>Quaternary Science Reviews</i> , 2017, 177, 265-275.	3.0	28
25	Late Quaternary climatic changes in southern Chile, as recorded in a diatom sequence of Lago Puyehue (40°S). <i>Journal of Paleolimnology</i> , 2008, 39, 219-235.	1.6	27
26	Tephrostratigraphy of the late glacial and Holocene sediments of Puyehue Lake (Southern Volcanic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	27
27	Holocene variations in productivity associated with changes in glacier activity and freshwater flux in the central basin of the Strait of Magellan. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 436, 112-122.	2.3	27
28	Elevated dust deposition in Tierra del Fuego (Chile) resulting from Neoglacial Darwin Cordillera glacier fluctuations. <i>Journal of Quaternary Science</i> , 2016, 31, 713-722.	2.1	22
29	Sedimentary record of coseismic subsidence in Hersek coastal lagoon (Izmit Bay, Turkey) and the late Holocene activity of the North Anatolian Fault. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	21
30	Sources of dissolved silica to the fjords of northern Patagonia (44°-48°S): the importance of volcanic ash soil distribution and weathering. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 499-512.	2.5	19
31	Late Holocene marine productivity changes in Northern Patagonia-Chile inferred from a multi-proxy analysis of Jacaf channel sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 80, 314-322.	2.1	18
32	Compositional and biogeochemical variations of sediments across the terrestrial-marine continuum of the Baker-Martínez fjord system (Chile, 48°S). <i>Progress in Oceanography</i> , 2019, 174, 89-104.	3.2	18
33	Neoglacial increase in high-magnitude glacial lake outburst flood frequency, upper Baker River, Chilean Patagonia (47°S). <i>Quaternary Science Reviews</i> , 2020, 248, 106572.	3.0	17
34	Ostracods from a Marmara Sea lagoon (Turkey) as tsunami indicators. <i>Quaternary International</i> , 2012, 261, 156-161.	1.5	16
35	Changes of sub-fossil chironomid assemblages associated with volcanic sediment deposition in an Andean lake (38°S), Chile. <i>Revista Chilena De Historia Natural</i> , 2007, 80, .	1.2	15
36	Modern sedimentary processes at the heads of Martínez Channel and Steffen Fjord, Chilean Patagonia. <i>Marine Geology</i> , 2020, 419, 106076.	2.1	15

#	ARTICLE	IF	CITATIONS
37	An Empirical Method to Predict Sediment Grain Size From Inorganic Geochemical Measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3690-3704.	2.5	14
38	Signature of modern glacial lake outburst floods in fjord sediments (Baker River, southern Chile). <i>Sedimentology</i> , 2021, 68, 2798-2819.	3.1	14
39	Late Holocene precipitation variability recorded in the sediments of Reloncavé-Fjord (41°S, 72°W), Chile. <i>Quaternary Research</i> , 2015, 84, 21-36.	1.7	13
40	The Influence of Glacial Cover on Riverine Silicon and Iron Exports in Chilean Patagonia. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006611.	4.9	12
41	Late Holocene high precipitation events recorded in lake sediments and catchment geomorphology, Lake Vuoksjärvi, NW Sweden. <i>Boreas</i> , 2015, 44, 676-692.	2.4	11
42	Hydroclimate variability of northern Chilean Patagonia during the last 20 kyr inferred from the bulk organic geochemistry of Lago Castor sediments (45°S). <i>Quaternary Science Reviews</i> , 2019, 204, 105-118.	3.0	11
43	High-resolution fjord sediment record of a receding glacier with growing intermediate proglacial lake (Steffen Fjord, Chilean Patagonia). <i>Earth Surface Processes and Landforms</i> , 2021, 46, 239-251.	2.5	11
44	Sequence mapping of Holocene coastal lowlands: the application of the Streif classification system in the Belgian coastal plain. <i>Quaternary International</i> , 2005, 133-134, 151-158.	1.5	9
45	Gualas Glacier sedimentary record of climate and environmental change, Golfo Elefantes, Western Patagonia (46.5°S). <i>Holocene</i> , 2012, 22, 451-463.	1.7	9
46	DESCIFRANDO LA HISTORIA AMBIENTAL DE LOS ARCHIPIÉLAGOS DE AYSÉN, CHILE: EL INFLUJO COLONIAL Y LA EXPLOTACIÓN ECONÓMICA-MERCANTIL REPUBLICANA (SIGLOS XVI-XIX). <i>Magallania</i> , 2013, 41, 29-52.	0.1	9
47	Changes in sub-fossil chironomid assemblages in two Northern Patagonian lake systems associated with the occurrence of historical fires. <i>Journal of Paleolimnology</i> , 2013, 50, 41-56.	1.6	8
48	Provenance of northwestern Patagonian river sediments (44°-48°S): A critical evaluation of mineralogical, geochemical and isotopic tracers. <i>Sedimentary Geology</i> , 2020, 408, 105744.	2.1	8
49	First evidence of a mid-Holocene earthquake-triggered megaturbidite south of the Chile Triple Junction. <i>Sedimentary Geology</i> , 2018, 375, 120-133.	2.1	7
50	Geochemical evidence (C, N and Pb isotopes) of recent anthropogenic impact in south-central Chile from two environmentally distinct lake sediment records. <i>Journal of Quaternary Science</i> , 2010, 25, 1100-1112.	2.1	6
51	Limited Influence of Sediment Grain Size on Elemental XRF Core Scanner Measurements. <i>Developments in Paleoenvironmental Research</i> , 2015, , 473-490.	8.0	6
52	Lacustrine record of last millennia eruptions in Northern Chilean Patagonia (45°-47°S). <i>Holocene</i> , 2017, 27, 1227-1251.	1.7	5
53	Introduction to the special issue "Analysis of sediment properties and provenance: Tools for palaeo-environmental reconstruction". <i>Sedimentary Geology</i> , 2018, 375, 1-4.	2.1	5
54	CHEMICAL PROFILES IN LAKE SEDIMENTS IN LAGUNA CHICA DE SAN PEDRO (BIO-BIO REGION, CHILE). <i>Journal of the Chilean Chemical Society</i> , 2005, 50, .	1.2	5

#	ARTICLE	IF	CITATIONS
55	Provenance of Baker River sediments (Chile, 48°S): Implications for the identification of flood deposits in fjord sediments. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 825-838.	2.5	5
56	Long-lasting impacts of a 20th century glacial lake outburst flood on a Patagonian fjord-river system (Pascua River). <i>Geomorphology</i> , 2022, 399, 108080.	2.6	5
57	T�phrostratigraphie de s�diments lacustres situ�s en contexte g�odynamique actif : exemple des s�diments du lac Icalma (Chili, zone volcanique sud, 38°S). <i>Quaternaire</i> , 2008, , 175-189.	0.2	4
58	Glacial isostatic adjustment near the center of the former Patagonian Ice Sheet (48°S) during the last 16.5 kyr. <i>Quaternary Science Reviews</i> , 2022, 277, 107346.	3.0	4
59	Seasonal Variations in Fjord Sediment Grain Size: A Pr�requisite for Hydrological and Climate Reconstructions in Partially Glacierized Watersheds (Baker River, Patagonia). <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	4
60	Sediment Provenance in the Baker-Mart�nez Fjord System (Chile, 48°S) Indicated by Magnetic Susceptibility and Inorganic Geochemistry. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	2
61	Late Holocene current patterns in the northern Patagonian fjords recorded by sediment drifts in Ays�n Fjord. <i>Marine Geology</i> , 2021, 441, 106604.	2.1	1
62	Covariability of precipitation and sea surface temperature changes in Northern Chilean Patagonia during the last 2000 years. <i>Quaternary International</i> , 2012, 279-280, 50.	1.5	0
63	THE INFLUENCE OF GLACIER COVER ON IRON AND MANGANESE CYCLING IN PATAGONIAN FJORDS. , 2020, , .		0