

# Sebastien Bertrand

## List of Publications by Year in descending order

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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	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
2	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
3	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
4	Seasonal Variations in Fjord Sediment Grain Size: A Prerequisite 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
5	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
6	Sediment Provenance in the Baker-Martínez Fjord System (Chile, 48°S) Indicated by Magnetic Susceptibility and Inorganic Geochemistry. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	2
7	Signature of modern glacial lake outburst floods in fjord sediments (Baker River, southern Chile). <i>Sedimentology</i> , 2021, 68, 2798-2819.	3.1	14
8	Late Holocene current patterns in the northern Patagonian fjords recorded by sediment drifts in Aysón Fjord. <i>Marine Geology</i> , 2021, 441, 106604.	2.1	1
9	Modern sedimentary processes at the heads of Martínez Channel and Steffen Fjord, Chilean Patagonia. <i>Marine Geology</i> , 2020, 419, 106076.	2.1	15
10	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
11	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
12	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
13	Fjords as Aquatic Critical Zones (ACZs). <i>Earth-Science Reviews</i> , 2020, 203, 103145.	9.1	104
14	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	5.3	112
15	THE INFLUENCE OF GLACIER COVER ON IRON AND MANGANESE CYCLING IN PATAGONIAN FJORDS. , 2020, , .		0
16	An Empirical Method to Predict Sediment Grain Size From Inorganic Geochemical Measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3690-3704.	2.5	14
17	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1570-1596.	2.9	30
18	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

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19	Compositional and biogeochemical variations of sediments across the terrestrial-marine continuum of the Baker-Mart�nez fjord system (Chile, 48�S). <i>Progress in Oceanography</i> , 2019, 174, 89-104.	3.2	18
20	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
21	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
22	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
23	Lacustrine record of last millennia eruptions in Northern Chilean Patagonia (45�-47�S). <i>Holocene</i> , 2017, 27, 1227-1251.	1.7	5
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	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
26	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
27	Late Quaternary evolution of Lago Castor (Chile, 45.6�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
28	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
29	Late Holocene high precipitation events recorded in lake sediments and catchment geomorphology, Lake Vuoksj�vr�tje, <sc>NW</sc> Sweden. <i>Boreas</i> , 2015, 44, 676-692.	2.4	11
30	Late Holocene precipitation variability recorded in the sediments of Reloncav�-Fjord (41�S, 72�W), Chile. <i>Quaternary Research</i> , 2015, 84, 21-36.	1.7	13
31	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
32	Limited Influence of Sediment Grain Size on Elemental XRF Core Scanner Measurements. <i>Developments in Paleoenvironmental Research</i> , 2015, , 473-490.	8.0	6
33	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
34	Deposition of the 2011-2012 Cord�n Caulle tephra (Chile, 40�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
35	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
36	DESCIFRANDO LA HISTORIA AMBIENTAL DE LOS ARCHIPI�LAGOS DE AYS�N, CHILE: EL INFLUJO COLONIAL Y LA EXPLOTACI�N ECON�MICA-MERCANTIL REPUBLICANA (SIGLOS XVI-XIX). <i>Magallania</i> , 2013, 41, 29-52.	0.1	9



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55	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). Quaternaire, 2008, , 175-189.	0.2	4
56	Changes in diatom, pollen, and chironomid assemblages in response to a recent volcanic event in Lake Galletu� (Chilean Andes). Limnologica, 2007, 37, 49-62.	1.5	34
57	Changes of sub-fossil chironomid assemblages associated with volcanic sediment deposition in an Andean lake (38�S), Chile. Revista Chilena De Historia Natural, 2007, 80, .	1.2	15
58	Recent clastic sedimentation processes in Lake Puyehue (Chilean Lake District, 40.5�S). Sedimentary Geology, 2007, 201, 365-385.	2.1	34
59	Radionuclide dating (210Pb, 137Cs, 241Am) of recent lake sediments in a highly active geodynamic setting (Lakes Puyehue and Icalma�Chilean Lake District). Science of the Total Environment, 2006, 366, 837-850.	8.0	100
60	Changes in diatom assemblages in an Andean lake in response to a recent volcanic event. Archiv F�r Hydrobiologie, 2006, 165, 23-35.	1.1	28
61	Temporal evolution of sediment supply in Lago Puyehue (Southern Chile) during the last 600 yr and its climatic significance. Quaternary Research, 2005, 64, 163-175.	1.7	54
62	Sequence mapping of Holocene coastal lowlands: the application of the Streif classification system in the Belgian coastal plain. Quaternary International, 2005, 133-134, 151-158.	1.5	9
63	CHEMICAL PROFILES IN LAKE SEDIMENTS IN LAGUNA CHICA DE SAN PEDRO (BIO-BIO REGION, CHILE). Journal of the Chilean Chemical Society, 2005, 50, .	1.2	5