Martin Grosjean

List of Publications by Year in descending order

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57758 42399 9,190 121 44 92 citations h-index g-index papers 147 147 147 8567 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Impact of warmer climate periods on flood hazard in the European Alps. Nature Geoscience, 2022, 15, 118-123.	12.9	28
2	Scanning Hyperspectral Imaging for In Situ Biogeochemical Analysis of Lake Sediment Cores: Review of Recent Developments. Journal of Imaging, 2022, 8, 58.	3.0	10
3	Linking the formation of varves in a eutrophic temperate lake to meteorological conditions and water column dynamics. Science of the Total Environment, 2022, 842, 156787.	8.0	3
4	A high-resolution record of Holocene primary productivity and water-column mixing from the varved sediments of Lake Żabińskie, Poland. Science of the Total Environment, 2021, 755, 143713.	8.0	18
5	250-year records of mercury and trace element deposition in two lakes from Cajas National Park, SW Ecuadorian Andes. Environmental Science and Pollution Research, 2021, 28, 16227-16243.	5.3	7
6	Variations of sedimentary Fe and Mn fractions under changing lake mixing regimes, oxygenation and land surface processes during Late-glacial and Holocene times. Science of the Total Environment, 2021, 755, 143418.	8.0	24
7	Holocene phototrophic community and anoxia dynamics in meromictic Lake Jaczno (NE Poland) using high-resolution hyperspectral imaging and HPLC data. Biogeosciences, 2021, 18, 1839-1856.	3.3	8
8	8,000Âyears of climate, vegetation, fire and land-use dynamics in the thermo-mediterranean vegetation belt of northern Sardinia (Italy). Vegetation History and Archaeobotany, 2021, 30, 789-813.	2.1	18
9	The nexus among long-term changes in lake primary productivity, deep-water anoxia, and internal phosphorus loading, explored through analysis of a 15,000-year varved sediment record. Global and Planetary Change, 2021, 207, 103643.	3.5	7
10	Seasonal climate signals preserved in biochemical varves: insights from novel high-resolution sediment scanning techniques. Climate of the Past, 2021, 17, 2055-2071.	3.4	9
11	20,000Âyears of interactions between climate, vegetation and landÂuse in Northern Greece. Vegetation History and Archaeobotany, 2020, 29, 75-90.	2.1	21
12	A Holocene highâ€resolution record of aquatic productivity, seasonal anoxia and meromixis from varved sediments of Lake Åazduny, Northâ€Eastern Poland: insight from a novel multiâ€proxy approach. Journal of Quaternary Science, 2020, 35, 1070-1080.	2.1	13
13	High-Resolution Historical Record of Plant Protection Product Deposition Documented by Target and Nontarget Trend Analysis in a Swiss Lake under Anthropogenic Pressure. Environmental Science & Environmental Science & Technology, 2020, 54, 13090-13100.	10.0	7
14	Utilization-focused scientific policy advice: a six-point checklist. Climate Policy, 2020, 20, 1336-1343.	5.1	15
15	Early human impact in a 15,000-year high-resolution hyperspectral imaging record of paleoproduction and anoxia from a varved lake in Switzerland. Quaternary Science Reviews, 2020, 239, 106335.	3.0	17
16	Quantification of chlorophyll a, chlorophyll b and pheopigments a in lake sediments through deconvolution of bulk UV–VIS absorption spectra. Journal of Paleolimnology, 2020, 64, 243-256.	1.6	23
17	The influences of historic lake trophy and mixing regime changes on long-term phosphorus fraction retention in sediments of deep eutrophic lakes: a case study from Lake BurgAschi, Switzerland. Biogeosciences, 2020, 17, 2715-2729.	3.3	10
18	A global database of Holocene paleotemperature records. Scientific Data, 2020, 7, 115.	5.3	112

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19	Late Holocene tephrostratigraphy from Cajas National Park, southern Ecuador. Andean Geology, 2020, 47, 508.	0.5	6
20	Teleconnections and relationship between the El Niño–Southern Oscillation (ENSO) and the Southern Annular Mode (SAM) in reconstructions and models over the past millennium. Climate of the Past, 2020, 16, 743-756.	3.4	29
21	Miniature radiocarbon measurements ( <  150 µg C) from sediments of Lake Żabińs of precision and dating density on age–depth models. Geochronology, 2020, 2, 63-79.	skie, Polan 2.5	d: gffect
22	Phosphorus fractions in sediments and their relevance for historical lake eutrophication in the Ponte Tresa basin (Lake Lugano, Switzerland) since 1959. Science of the Total Environment, 2019, 685, 806-817.	8.0	67
23	El Niño–Southern Oscillation variability, teleconnection changes and responses to large volcanic eruptions since AD 1000. International Journal of Climatology, 2019, 39, 2711-2724.	3.5	24
24	A high-resolution pigment and productivity record from the varved Ponte Tresa basin (Lake Lugano,) Tj ETQq0 0 high-performance liquid chromatography. Journal of Paleolimnology, 2018, 60, 381-398.	0 rgBT /O\ 1.6	verlock 10 Tf 26
25	An empirical perspective for understanding climate change impacts in Switzerland. Regional Environmental Change, 2018, 18, 205-221.	2.9	23
26	A 150-year record of polycyclic aromatic compound (PAC) deposition from high Andean Cajas National Park, southern Ecuador. Science of the Total Environment, 2018, 621, 1652-1663.	8.0	28
27	Teleconnection stationarity, variability and trends of the Southern Annular Mode (SAM) during the last millennium. Climate Dynamics, 2018, 51, 2321-2339.	3.8	58
28	Holocene dynamics of the Southern Hemisphere westerly winds and possible links to CO2 outgassing. Nature Geoscience, 2018, 11, 650-655.	12.9	71
29	Paleo-ENSO revisited: Ecuadorian Lake Pallcacocha does not reveal a conclusive El Niño signal. Global and Planetary Change, 2018, 168, 54-66.	3.5	39
30	Hyperspectral imaging of sedimentary bacterial pigments: a 1700-year history of meromixis from varved Lake Jaczno, northeast Poland. Journal of Paleolimnology, 2017, 58, 57-72.	1.6	37
31	Diatom-based reconstruction of trophic status changes recorded in varved sediments of Lake Żabińskie (northeastern Poland), AD 1888-2010. Oceanological and Hydrobiological Studies, 2017, 46, 1-17.	0.7	13
32	Resilience, rapid transitions and regime shifts: Fingerprinting the responses of Lake Żabińskie (NE Poland) to climate variability and human disturbance since AD 1000. Holocene, 2017, 27, 258-270.	1.7	23
33	The 1430s: a cold period of extraordinary internal climate variability during the early $Sp\tilde{A}\P$ rer Minimum with social and economic impacts in north-western and central Europe. Climate of the Past, 2016, 12, 2107-2126.	3.4	66
34	Sedimentary Bacteriopheophytin a as an indicator of meromixis in varved lake sediments of Lake Jaczno, north-east Poland, CE 1891–2010. Global and Planetary Change, 2016, 144, 109-118.	3.5	22
35	Late Holocene environmental changes as recorded in the sediments of high Andean Laguna Chepical, Central Chile (32°S; 3050 m a.s.l.). Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 461, 44-54.	2.3	23
36	Sedimentological and geochemical responses of Lake Żabińskie (north-eastern Poland) to erosion changes during the last millennium. Journal of Paleolimnology, 2016, 56, 239-252.	1.6	24

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37	Recent temperature trends in the South Central Andes reconstructed from sedimentary chrysophyte stomatocysts in Laguna Escondida (1742 m a.s.l., 38°28 S, Chile). Global and Planetary Change, 2016, 137, 24-34.	3.5	6
38	Determining the responses of vegetation to natural processes and human impacts in north-eastern Poland during the last millennium: combined pollen, geochemical and historical data. Vegetation History and Archaeobotany, 2016, 25, 479-498.	2.1	68
39	Calibrating 210Pb dating results with varve chronology and independent chronostratigraphic markers: Problems and implications. Quaternary Geochronology, 2016, 32, 1-10.	1.4	79
40	A diatom–conductivity transfer function for reconstructing past changes in the Southern Hemisphere westerly winds over the Southern Ocean. Journal of Quaternary Science, 2015, 30, 464-477.	2.1	11
41	Development of coccolithophore-based transfer functions in the western Mediterranean sea: a sea surface salinity reconstruction for the last 15.5 kyr. Climate of the Past, 2015, 11, 1635-1651.	3.4	8
42	Comparing Varve Counting And ¹⁴ C-Ams Chronologies In The Sediments Of Lake Żabińskie, Northeastern Poland: Implications For Accurate ¹⁴ C Dating Of Lake Sediments. Geochronometria, 2015, 42, .	0.8	26
43	A 600 years warm-season temperature record from varved sediments of Lago Plomo, Northern Patagonia, Chile (47°S). Quaternary International, 2015, 377, 28-37.	1.5	9
44	Chrysophyte cyst-inferred variability of warm season lake water chemistry and climate in northern Poland: training set and downcore reconstruction. Journal of Paleolimnology, 2015, 53, 123-138.	1.6	22
45	Holocene climate variability and change; a data-based review. Journal of the Geological Society, 2015, 172, 254-263.	2.1	148
46	Comparison between chironomid-inferred mean-August temperature from varved Lake Żabińskie (Poland) and instrumental data since 1896 AD. Quaternary Science Reviews, 2015, 111, 35-50.	3.0	34
47	A chrysophyte-based quantitative reconstruction of winter severity from varved lake sediments in NE Poland during the past millennium and its relationship to natural climate variability. Quaternary Science Reviews, 2015, 122, 74-88.	3.0	22
48	A millennial-long record of warm season precipitation and flood frequency for the North-western Alps inferred from varved lake sediments: implications for the future. Quaternary Science Reviews, 2015, 115, 89-100.	3.0	47
49	Hyperspectral imaging spectroscopy: a promising method for the biogeochemical analysis of lake sediments. Journal of Applied Remote Sensing, 2015, 9, 096031.	1.3	56
50	Modern limnology, sediment accumulation and varve formation processes in Lake Żabińskie, northeastern Poland: comprehensive process studies as a key to understand the sediment record. Journal of Limnology, 2014, 73, .	1.1	13
51	Climate change in Switzerland: a review of physical, institutional, and political aspects. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 461-481.	8.1	21
52	Globale Temperaturvariabilitäder letzten 2000 Jahre. Physik in Unserer Zeit, 2014, 45, 176-180.	0.0	2
53	Quantitative high-resolution warm season rainfall recorded in varved sediments of Lake Oeschinen, northern Swiss Alps: calibration and validation AD 1901–2008. Journal of Paleolimnology, 2014, 51, 375-391.	1.6	11
54	Spring temperature variability and eutrophication history inferred from sedimentary pigments in the varved sediments of Lake Żabińskie, north-eastern Poland, AD 1907–2008. Global and Planetary Change, 2014, 123, 86-96.	3.5	29

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55	Holocene climate, fire and vegetation dynamics at the treeline in the Northwestern Swiss Alps. Vegetation History and Archaeobotany, 2014, 23, 479-496.	2.1	56
56	Cold-season temperatures in the European Alps during the past millennium: variability, seasonality and recent trends. Quaternary Science Reviews, 2013, 82, 1-12.	3.0	21
57	A chrysophyte stomatocyst-based reconstruction of cold-season air temperature from Alpine Lake Silvaplana (AD 1500–2003); methods and concepts for quantitative inferences. Journal of Paleolimnology, 2013, 50, 519-533.	1.6	11
58	Late Holocene air temperature variability reconstructed from the sediments of Laguna Escondida, Patagonia, Chile (45°30′S). Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 369, 482-492.	2.3	36
59	Archaeological silence and ecorefuges: Arid events in the Puna of Atacama during the Middle Holocene. Quaternary International, 2013, 307, 5-13.	1.5	41
60	A 950 yr temperature reconstruction from Duckhole Lake, southern Tasmania, Australia. Holocene, 2013, 23, 771-783.	1.7	25
61	Late Holocene summer temperatures in the central Andes reconstructed from the sediments of high-elevation Laguna Chepical, Chile (32° S). Climate of the Past, 2013, 9, 1921-1932.	3.4	27
62	Quantitative high-resolution winter (JJA) precipitation reconstruction from varved sediments of Lago Plomo 47°S, Patagonian Andes, <scp>ad</scp> 1530–2002. Holocene, 2012, 22, 465-474.	1.7	33
63	A last millennium temperature reconstruction using chironomids preserved in sediments of anoxic Seebergsee (Switzerland): consensus at local, regional and Central European scales. Quaternary Science Reviews, 2012, 41, 49-56.	3.0	14
64	Multi-archive summer temperature reconstruction for the European Alps, ADÂ1053–1996. Quaternary Science Reviews, 2012, 46, 66-79.	3.0	59
65	Late Holocene changes in precipitation in northwest Tasmania and their potential links to shifts in the Southern Hemisphere westerly winds. Global and Planetary Change, 2012, 92-93, 82-91.	3.5	29
66	Calibrating biogeochemical and physical climate proxies from non-varved lake sediments with meteorological data: methods and case studies. Journal of Paleolimnology, 2012, 47, 583-600.	1.6	41
67	Calibration-in-time versus calibration-in-space (transfer function) to quantitatively infer July air temperature using biological indicators (chironomids) preserved in lake sediments. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 299, 281-288.	2.3	12
68	Reconstructions of late Holocene paleofloods and glacier length changes in the Upper Engadine, Switzerland (ca. 1450 BC–AD 420). Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 311, 215-223.	2.3	25
69	Chironomid-inferred temperature changes of the last century in anoxic Seebergsee, Switzerland: assessment of two calibration methods. Quaternary Science Reviews, 2011, 30, 1770-1779.	3.0	9
70	Structure and origin of Holocene cold events. Quaternary Science Reviews, 2011, 30, 3109-3123.	3.0	652
71	Multiproxy summer and winter surface air temperature field reconstructions for southern South America covering the past centuries. Climate Dynamics, 2011, 37, 35-51.	3.8	135
72	Quantitative interâ€annual and decadal June–July–August temperature variability ca. 570 BC to AD 120 (Iron Age–Roman Period) reconstructed from the varved sediments of Lake Silvaplana, Switzerland. Journal of Quaternary Science, 2011, 26, 491-501.	2.1	12

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73	Alpine climate during the Holocene: a comparison between records of glaciers, lake sediments and solar activity. Journal of Quaternary Science, 2011, 26, 703-713.	2.1	56
74	Scanning reflectance spectroscopy (380–730Ânm): a novel method for quantitative high-resolution climate reconstructions from minerogenic lake sediments. Journal of Paleolimnology, 2010, 44, 979-994.	1.6	40
75	Multiâ€eentennial summer and winter precipitation variability in southern South America. Geophysical Research Letters, 2010, 37, .	4.0	94
76	Thousand years of climate change reconstructed from chironomid subfossils preserved in varved lake Silvaplana, Engadine, Switzerland. Quaternary Science Reviews, 2010, 29, 1940-1949.	3.0	45
77	Quantitative summer temperature reconstruction derived from a combined biogenic Si and chironomid record from varved sediments of Lake Silvaplana (south-eastern Swiss Alps) back to AD 1177. Quaternary Science Reviews, 2010, 29, 2719-2730.	3.0	34
78	High-resolution chironomid-inferred temperature history since ad 1580 from varved Lake Silvaplana, Switzerland: comparison with local and regional reconstructions. Holocene, 2009, 19, 1201-1212.	1.7	15
79	Comparison between chironomid-inferred July temperatures and meteorological data AD 1850–2001 from varved Lake Silvaplana, Switzerland. Journal of Paleolimnology, 2009, 41, 329-342.	1.6	61
80	A quantitative high-resolution summer temperature reconstruction based on sedimentary pigments from Laguna Aculeo, central Chile, back to AD 850. Holocene, 2009, 19, 873-881.	1.7	88
81	Pollution and eutrophication history AD 1800–2005 as recorded in sediments from five lakes in Central Chile. Global and Planetary Change, 2009, 68, 198-208.	3.5	16
82	Age modeling of young non-varved lake sediments: methods and limits. Examples from two lakes in Central Chile. Journal of Paleolimnology, 2009, 42, 401-412.	1.6	53
83	Calibration-in-time: Transforming biogeochemical lake sediment proxies into quantitative climate variables. PAGES News, 2009, 17, 108-110.	0.3	8
84	Signature of explosive volcanic eruptions in the sediments of a high-altitude Swiss lake. Journal of Paleolimnology, 2008, 39, 35-42.	1.6	2
85	Mid- to Late Holocene climate change: an overview. Quaternary Science Reviews, 2008, 27, 1791-1828.	3.0	1,389
86	Late Pleistocene glaciation in the Central Andes: Temperature versus humidity control — A case study from the eastern Bolivian Andes (17°S) and regional synthesis. Global and Planetary Change, 2008, 60, 148-164.	3.5	55
87	Mineralogyâ€based quantitative precipitation and temperature reconstructions from annually laminated lake sediments (Swiss Alps) since AD 1580. Geophysical Research Letters, 2008, 35, .	4.0	29
88	How stable are twentieth-century calibration models? A high-resolution summer temperature reconstruction for the eastern Swiss Alps back to AD 1580 derived from proglacial varved sediments. Holocene, 2007, 17, 51-63.	1.7	45
89	Ice-borne prehistoric finds in the Swiss Alps reflect Holocene glacier fluctuations. Journal of Quaternary Science, 2007, 22, 203-207.	2.1	71
90	Decadal-scale autumn temperature reconstruction back to AD 1580 inferred from the varved sediments of Lake Silvaplana (Southeastern Swiss Alps). Quaternary Research, 2007, 68, 184-195.	1.7	72

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91	Climate and human impact during the past 2000 years as recorded in the Lagunas de Yala, Jujuy, northwestern Argentina. Quaternary International, 2006, 158, 30-43.	1.5	19
92	Temperature reduction and local last glaciation maximum (LLGM): the example of the east-Andean Cordillera around Cochabamba, Bolivia ($17\hat{A}^{\circ}S$). Geographica Helvetica, 2006, 61, 91-106.	0.8	6
93	Palaeoindian occupation of the Atacama Desert, northern Chile. Journal of Quaternary Science, 2005, 20, 643-653.	2.1	79
94	The last 1300Âyears of environmental history recorded in the sediments of Lake Sils (Engadine,) Tj ETQq0 0 0 rg	BT /Overlo	ck 10 Tf 50 6 25
95	European spring and autumn temperature variability and change of extremes over the last half millennium. Geophysical Research Letters, 2005, 32, .	4.0	255
96	European Seasonal and Annual Temperature Variability, Trends, and Extremes Since 1500. Science, 2004, 303, 1499-1503.	12.6	1,507
97	Climate Variability and Change in High Elevation Regions: Past, Present and Future. Climatic Change, 2003, 59, 1-4.	3.6	212
98	Title is missing!. Climatic Change, 2003, 59, 157-175.	3.6	25
99	Climate Variability and Change in High Elevation Regions: Past, Present and Future. Advances in Global Change Research, 2003, , 1-4.	1.6	13
100	From proxy data to paleoclimate interpretation: the mid-Holocene paradox of the Atacama Desert, northern Chile. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 194, 247-258.	2.3	115
101	Evidence of an LGM cooling in NW-Argentina (22°S) derived from a glacier climate model. Quaternary International, 2003, 108, 3-11.	1.5	32
102	Human Occupations and Climate Change in the Puna de Atacama, Chile. Science, 2002, 298, 821-824.	12.6	240
103	Title is missing!. Climatic Change, 2002, 52, 359-381.	3.6	71
104	A 22,000 14C year BP sediment and pollen record of climate change from Laguna Miscanti (23°S), northern Chile. Global and Planetary Change, 2001, 28, 35-51.	3.5	153
105	Climate Change at High Elevation Sites: Emerging Impacts HIGHEST II. Mountain Research and Development, 2001, 21, 396-397.	1.0	0
106	Mid-Holocene Climate in the South-Central Andes: Humid or Dry?. Science, 2001, 292, 2391a-2391.	12.6	66
107	Late Pleistocene climate conditions in the north Chilean Andes drawn from a climate–glacier model. Journal of Glaciology, 2000, 46, 622-632.	2.2	80
108	From nature-dominated to human-dominated environmental changes. Quaternary Science Reviews, 2000, 19, 459-479.	3.0	201

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109	Radiocarbon Reservoir Effect and the Timing of the Late-Glacial/Early Holocene Humid Phase in the Atacama Desert (Northern Chile). Quaternary Research, 1999, 52, 143-153.	1.7	152
110	Holocene lacustrine deposition in the Atacama Altiplano: facies models, climate and tectonic forcing. Palaeogeography, Palaeoclimatology, Palaeoecology, 1999, 151, 101-125.	2.3	49
111	Albedo changes, Milankovitch forcing, and late Quaternary climate changes in the central Andes. Climate Dynamics, 1998, 14, 871-881.	3.8	29
112	A late-Holocene (<2600 BP) glacial advance in the south-central Andes (29 $\hat{A}^{\circ}S$), northern Chile. Holocene, 1998, 8, 473-479.	1.7	56
113	Temporal Changes of the ^{14 < /sup > C Reservoir Effect in Lakes. Radiocarbon, 1997, 40, 921-931.}	1.8	119
114	Mid- and late-Holocene limnogeology of Laguna del Negro Francisco, northern Chile, and its palaeoclimatic implications. Holocene, 1997, 7, 151-159.	1.7	77
115	Mid-Holocene Climate and Culture Change in the Atacama Desert, Northern Chile. Quaternary Research, 1997, 48, 239-246.	1.7	116
116	Limnogeology of Laguna Miscanti: evidence for mid to late Holocene moisture changes in the Atacama Altiplano (Northern Chile). Journal of Paleolimnology, 1996, 16, 1.	1.6	87
117	Studien zur Morphodynamik in den Hohenstuffen der Apolobamba-Kordillere (Bolivien). Eine Kartenaufnahme nach dem Methodenansatz der Geomorphologischen Kartierung (GMK 100). Mountain Research and Development, 1996, 16, 435.	1.0	0
118	Late-glacial and early Holocene lake sediments, ground-water formation and climate in the Atacama Altiplano 22?24�S. Journal of Paleolimnology, 1995, 14, 241-252.	1.6	98
119	Lateglacial, early and middle holocene environments, human occupation, and resource use in the Atacama (Northern Chile). Geoarchaeology - an International Journal, 1994, 9, 271-286.	1.5	79
120	Paleohydrology of the Laguna LejÃa (north Chilean Altiplano) and climatic implications for late-glacial times. Palaeogeography, Palaeoclimatology, Palaeoecology, 1994, 109, 89-100.	2.3	116
121	Cambios ambientales pleistoceno-holoc $ ilde{A}$ ©nicos: ocupaci $ ilde{A}^3$ n humana y uso de recursos en la Puna de Atacama (norte de Chile). Estudios Atacamenos, 1994, , 7-20.	0.3	9