

Christian Bigler

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,401
citations

236925

25
h-index

214800

47
g-index

53
all docs

53
docs citations

53
times ranked

2652
citing authors

#	ARTICLE	IF	CITATIONS
1	Do diatoms in the Swiss Alps reflect the length of ice-cover?. <i>Aquatic Sciences</i> , 2000, 62, 125.	1.5	277
2	Quantitative multiproxy assessment of long-term patterns of Holocene environmental change from a small lake near Abisko, northern Sweden. <i>Holocene</i> , 2002, 12, 481-496.	1.7	200
3	Lake Sedimentary DNA Research on Past Terrestrial and Aquatic Biodiversity: Overview and Recommendations. <i>Quaternary</i> , 2021, 4, 6.	2.0	121
4	Holocene climatic change in Swedish Lapland inferred from an oxygen-isotope record of lacustrine biogenic silica. <i>Holocene</i> , 2001, 11, 447-454.	1.7	119
5	Distribution of diatoms, chironomids and cladocera in surface sediments of thirty mountain lakes in south-eastern Switzerland. <i>Aquatic Sciences</i> , 2006, 68, 154-171.	1.5	117
6	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 27, 97-115.	1.6	113
7	Title is missing!. <i>Journal of Paleolimnology</i> , 2003, 29, 13-29.	1.6	92
8	Harmonization is more important than experience—results of the first Nordic—Baltic diatom intercalibration exercise 2007 (stream monitoring). <i>Journal of Applied Phycology</i> , 2009, 21, 471-482.	2.8	75
9	Early land use and centennial scale changes in lake-water organic carbon prior to contemporary monitoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6579-6584.	7.1	74
10	The sedimentary and remote-sensing reflection of biomass burning in Europe. <i>Global Ecology and Biogeography</i> , 2018, 27, 199-212.	5.8	73
11	Decadal-scale autumn temperature reconstruction back to AD 1580 inferred from the varved sediments of Lake Silvaplana (Southeastern Swiss Alps). <i>Quaternary Research</i> , 2007, 68, 184-195.	1.7	72
12	Diatoms as quantitative indicators of July temperature: a validation attempt at century-scale with meteorological data from northern Sweden. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 189, 147-160.	2.3	70
13	Decadal diagenetic effects on $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ studied in varved lake sediment. <i>Limnology and Oceanography</i> , 2009, 54, 917-924.	3.1	68
14	Comparison between chironomid-inferred July temperatures and meteorological data AD 1850—2001 from varved Lake Silvaplana, Switzerland. <i>Journal of Paleolimnology</i> , 2009, 41, 329-342.	1.6	61
15	A 700-YEAR PALEOECOLOGICAL RECORD OF BOREAL ECOSYSTEM RESPONSES TO CLIMATIC VARIATION FROM ALASKA. <i>Ecology</i> , 2008, 89, 729-743.	3.2	58
16	Similarities and discrepancies between chironomid- and diatom-inferred temperature reconstructions through the Holocene at Lake 850, northern Sweden. <i>Quaternary International</i> , 2004, 122, 109-121.	1.5	50
17	Holocene environmental history of Lake Vuolep Njakajaure (Abisko National Park, northern Sweden) reconstructed using biological proxy indicators. <i>Vegetation History and Archaeobotany</i> , 2006, 15, 309-320.	2.1	47
18	Quantitative Calibration of Remote Mountain-Lake Sediments as Climatic Recorders of Air Temperature and Ice-Cover Duration. <i>Arctic, Antarctic, and Alpine Research</i> , 2005, 37, 626-635.	1.1	43

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19	Early-Holocene afforestation processes in the lower subalpine belt of the Central Swiss Alps as inferred from macrofossil and pollen records. <i>Holocene</i> , 2005, 15, 672-686.	1.7	43
20	Quantifying human-induced eutrophication in Swiss mountain lakes since AD 1800 using diatoms. <i>Holocene</i> , 2007, 17, 1141-1154.	1.7	42
21	Development and application of sedimentary pigments for assessing effects of climatic and environmental changes on subarctic lakes in northern Sweden. <i>Journal of Paleolimnology</i> , 2010, 43, 149-169.	1.6	39
22	Environmental history: A piece in the puzzle for establishing plans for environmental management. <i>Journal of Environmental Management</i> , 2009, 90, 2794-2800.	7.8	37
23	The Holocene–Anthropocene transition in lakes of western Spitsbergen, Svalbard (Norwegian High) Tj ETQq1 1 0,784314 rgBT /Over	1.6	37
24	Diatoms as indicators of surface-water acidity. , 0, , 98-121.		34
25	Lead Contamination of Subarctic Lakes and Its Response to Reduced Atmospheric Fallout: Can the Recovery Process Be Counteracted by the Ongoing Climate Change?. <i>Environmental Science & Technology</i> , 2010, 44, 2335-2340.	10.0	29
26	Mercury Pollution Trends in Subarctic Lakes in the Northern Swedish Mountains. <i>Ambio</i> , 2007, 36, 401-405.	5.5	27
27	Liming placed in a long-term perspective: a paleolimnological study of 12 lakes in the Swedish liming program. <i>Journal of Paleolimnology</i> , 2007, 37, 247-258.	1.6	27
28	Human impacts and eutrophication patterns during the past ~200 years at Lago Grande di Avigliana (N.) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	24
29	Seasonal temperatures for the past ~1/4400 years reconstructed from diatom and chironomid assemblages in a high-altitude lake (Lej da la Tscheppa, Switzerland). <i>Journal of Paleolimnology</i> , 2008, 39, 283-299.	1.6	23
30	Modest summer temperature variability during DO cycles in western Europe. <i>Quaternary Science Reviews</i> , 2010, 29, 1322-1327.	3.0	23
31	Numerical simulations suggest that counting sums and taxonomic resolution of diatom analyses to determine IPS pollution and ACID acidity indices can be reduced. <i>Journal of Applied Phycology</i> , 2010, 22, 541-548.	2.8	22
32	Monitoring compared with paleolimnology: implications for the definition of reference condition in limed lakes in Sweden. <i>Environmental Monitoring and Assessment</i> , 2008, 146, 295-308.	2.7	21
33	Compaction of recent varved lake sediments. <i>Gff</i> , 2013, 135, 231-236.	1.2	20
34	To what extent is the DNA of microbial eukaryotes modified during burying into lake sediments? A repeat-coring approach on annually laminated sediments. <i>Journal of Paleolimnology</i> , 2017, 58, 479-495.	1.6	20
35	Shifts in precipitation during the last millennium in northern Scandinavia from lacustrine isotope records. <i>Quaternary Science Reviews</i> , 2013, 66, 22-34.	3.0	19
36	Multiproxy reconstruction of a large and deep subalpine lake's ecological history since the Middle Ages. <i>Journal of Great Lakes Research</i> , 2015, 41, 982-994.	1.9	18

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37	How Does Environmental Inter-annual Variability Shape Aquatic Microbial Communities? A 40-Year Annual Record of Sedimentary DNA From a Boreal Lake (Nylandssjön, Sweden). <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	16
38	A multi-proxy palaeoecological study of Alanen Laanijärvi, a boreal-forest lake in Swedish Lapland. <i>Boreas</i> , 2005, 34, 192-206.	2.4	14
39	Using a decadal diatom sediment trap record to unravel seasonal processes important for the formation of the sedimentary diatom signal. <i>Journal of Paleolimnology</i> , 2018, 60, 133-152.	1.6	14
40	Interannual variation in seasonal diatom sedimentation reveals the importance of late winter processes and their timing for sediment signal formation. <i>Limnology and Oceanography</i> , 2019, 64, 1186-1199.	3.1	13
41	A diatom-training set for palaeoclimatic inferences from lakes in northern Sweden. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 1174-1182.	0.1	12
42	Seasonal changes in molecular composition of organic matter in lake sediment trap material from Nylandssjön, Sweden. <i>Organic Geochemistry</i> , 2015, 83-84, 253-262.	1.8	12
43	Effects of long term nutrient and climate variability on subfossil Cladocera in a deep, subalpine lake (Lake Garda, northern Italy). <i>Journal of Paleolimnology</i> , 2017, 58, 335-351.	1.6	12
44	Near-Infrared Spectroscopy (NIRS) of Epilithic Material in Streams has a Potential for Monitoring Impact from Mining. <i>Environmental Science & Technology</i> , 2007, 41, 2874-2880.	10.0	10
45	Comparing pre-industrial and post-limed diatom communities in Swedish lakes, with implications for defining realistic management targets. <i>Journal of Paleolimnology</i> , 2010, 44, 233-242.	1.6	9
46	High-resolution diatom $\delta^{18}O$ records, from the last 150 years, reflecting changes in amount of winter precipitation in two sub-Arctic high-altitude lakes in the Swedish Scandes. <i>Journal of Quaternary Science</i> , 2010, 25, 918-930.	2.1	9
47	Late-Holocene climate variability and ecosystem responses in Alaska inferred from high-resolution multiproxy sediment analyses at Grizzly Lake. <i>Quaternary Science Reviews</i> , 2015, 126, 41-56.	3.0	9
48	Regional Holocene climate and landscape changes recorded in the large subarctic lake Torneträsk, N Fennoscandia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 487, 1-14.	2.3	9
49	Composition and dispersal of riverine and lake phytoplankton communities in connected systems with different water retention times. <i>Freshwater Biology</i> , 2008, 53, 2520-2529.	2.4	8
50	Landscape Setting Drives the Microbial Eukaryotic Community Structure in Four Swedish Mountain Lakes over the Holocene. <i>Microorganisms</i> , 2021, 9, 355.	3.6	8
51	A multi-proxy palaeoecological study of Alanen Laanijärvi, a boreal-forest lake in Swedish Lapland. <i>Boreas</i> , 2005, 34, 192-206.	2.4	5
52	Environmental footprint of small-scale, historical mining and metallurgy in the Swedish boreal forest landscape: The Moshyttan blast furnace as microcosm. <i>Holocene</i> , 2019, 29, 578-591.	1.7	4
53	Functional clustering of varved lake sediment to reconstruct past seasonal climate. <i>Environmental and Ecological Statistics</i> , 2016, 23, 513-529.	3.5	2