

Fabien Arnaud

List of Publications by Year in descending order

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120
papers

5,268
citations

66343

42
h-index

102487

66
g-index

135
all docs

135
docs citations

135
times ranked

5208
citing authors

#	ARTICLE	IF	CITATIONS
1	Pesticide resurrection. Environmental Chemistry Letters, 2022, 20, 3357-3362.	16.2	9
2	Sedimentary structure discrimination with hyperspectral imaging in sediment cores. Science of the Total Environment, 2022, 817, 152018.	8.0	6
3	Lakes as Recorders of Earth Surface Dynamics From Yearly to Plurimillennial Time-Scales. , 2022, , 439-452.		1
4	Instant sedimentation in a deep Alpine lake (Iseo, Italy) controlled by climate, human and geodynamic forcing. Sedimentology, 2022, 69, 1816-1840.	3.1	10
5	Impact of warmer climate periods on flood hazard in the European Alps. Nature Geoscience, 2022, 15, 118-123.	12.9	28
6	Interdisciplinary insights into a 500-year trajectory of an alpine socio-ecological system in Montaimont, France. Regional Environmental Change, 2022, 22, 1.	2.9	2
7	Theoretical Principles and Perspectives of Hyperspectral Imaging Applied to Sediment Core Analysis. Quaternary, 2022, 5, 28.	2.0	4
8	Paravani, a puzzling lake in the South Caucasus. Quaternary International, 2021, 579, 6-18.	1.5	5
9	A 1600-year-long sedimentary record of tsunamis and hurricanes in the Lesser Antilles (Scrub Island.) Tj ETQq1 1,0,784314,rgBT /O	2.1	23
10	Evidence of Chlordecone Resurrection by Glyphosate in French West Indies. Environmental Science & Technology, 2021, 55, 2296-2306.	10.0	20
11	Lake Sedimentary DNA Research on Past Terrestrial and Aquatic Biodiversity: Overview and Recommendations. Quaternary, 2021, 4, 6.	2.0	121
12	Quantitative evaluation of human and climate forcing on erosion in the alpine Critical Zone over the last 2000 years. Quaternary Science Reviews, 2021, 268, 107127.	3.0	9
13	6600 years of human and climate impacts on lake-catchment and vegetation in the Julian Alps (Lake Tj ETQq1 1 0,784314 rgBT /Ove	3.0	10
14	Pastoralism increased vulnerability of a subalpine catchment to flood hazard through changing soil properties. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 538, 109462.	2.3	19
15	Deciphering centurial anthropogenic pollution processes in large lakes dominated by socio-economic impacts. Anthropocene, 2020, 32, 100269.	3.3	19
16	XRF and hyperspectral analyses as an automatic way to detect flood events in sediment cores. Sedimentary Geology, 2020, 409, 105776.	2.1	14
17	Scientists's Warning to Humanity: Rapid degradation of the world's large lakes. Journal of Great Lakes Research, 2020, 46, 686-702.	1.9	140
18	Past African dust inputs in the western Mediterranean area controlled by the complex interaction between the Intertropical Convergence Zone, the North Atlantic Oscillation, and total solar irradiance. Climate of the Past, 2020, 16, 283-298.	3.4	16

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19	When archives are missing, deciphering the effects of public policies and climate variability on the Brazilian semi-arid region using sediment core studies. <i>Science of the Total Environment</i> , 2020, 723, 137989.	8.0	19
20	Lake Sediments Reveal Large Variations in Flood Frequency Over the Last 6,500 Years in South-Western Norway. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	7
21	Tracing Natural Organic Matter at the Scale of Drainage Basins. , 2020, , 29-50.		0
22	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1570-1596.	2.9	30
23	New insights on lake sediment DNA from the catchment: importance of taphonomic and analytical issues on the record quality. <i>Scientific Reports</i> , 2019, 9, 14676.	3.3	103
24	High-resolution grain size distribution of sediment core with hyperspectral imaging. <i>Sedimentary Geology</i> , 2019, 393-394, 105536.	2.1	11
25	High-resolution prediction of organic matter concentration with hyperspectral imaging on a sediment core. <i>Science of the Total Environment</i> , 2019, 663, 236-244.	8.0	24
26	Palaeomagnetism for chronologies of recent alpine lake sediments: successes and limits. <i>Journal of Paleolimnology</i> , 2019, 62, 259-278.	1.6	7
27	Holocene-long record of flood frequency in the Southern Alps (Lake Iseo, Italy) under human and climate forcing. <i>Global and Planetary Change</i> , 2019, 175, 160-172.	3.5	24
28	Coupling indicators and lumped-parameter modeling to assess suspended matter and soluble phosphorus losses. <i>Science of the Total Environment</i> , 2019, 650, 3027-3040.	8.0	2
29	A 7000-year environmental history and soil erosion record inferred from the deep sediments of Lake Pavin (Massif Central, France). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 497, 218-233.	2.3	13
30	Resurrection ecology in <i>Artemia</i> . <i>Evolutionary Applications</i> , 2018, 11, 76-87.	3.1	22
31	6600 years of earthquake record in the Julian Alps (Lake Bohinj, Slovenia). <i>Sedimentology</i> , 2018, 65, 1777-1799.	3.1	23
32	Legacy of early anthropogenic effects on recent lake eutrophication (Lake B��nit, northern French) <i>Journal of Great Lakes Research</i> , 2018, 44, 107-115.	8.3	13
33	Wet avalanches: long-term evolution in the Western Alps under climate and human forcing. <i>Climate of the Past</i> , 2018, 14, 1299-1313.	3.4	6
34	DNA from lake sediments reveals long-term ecosystem changes after a biological invasion. <i>Science Advances</i> , 2018, 4, eaar4292.	10.3	73
35	The overlooked human influence in historic and prehistoric floods in the European Alps. <i>Geology</i> , 2017, 45, 347-350.	4.4	28
36	One thousand seven hundred years of interaction between glacial activity and flood frequency in proglacial Lake Muzelle (western French Alps). <i>Quaternary Research</i> , 2017, 87, 407-422.	1.7	22

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37	Deciphering long-term records of natural variability and human impact as recorded in lake sediments: a palaeolimnological puzzle. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1195.	6.5	56
38	Long-term changes in alpine pedogenetic processes: Effect of millennial agro-pastoralism activities (French-Italian Alps). <i>Geoderma</i> , 2017, 306, 217-236.	5.1	35
39	6-kyr record of flood frequency and intensity in the western Mediterranean Alps – Interplay of solar and temperature forcing. <i>Quaternary Science Reviews</i> , 2017, 170, 121-135.	3.0	53
40	Tracking a century of changes in microbial eukaryotic diversity in lakes driven by nutrient enrichment and climate warming. <i>Environmental Microbiology</i> , 2017, 19, 2873-2892.	3.8	64
41	Progressive and regressive soil evolution phases in the Anthropocene. <i>Catena</i> , 2017, 150, 39-52.	5.0	34
42	A new CT scan methodology to characterize a small aggregation gravel clast contained in a soft sediment matrix. <i>Earth Surface Dynamics</i> , 2017, 5, 199-209.	2.4	21
43	A tale of two lakes: a multi-proxy comparison of Lateglacial and Holocene environmental change in Cappadocia, Turkey. <i>Journal of Quaternary Science</i> , 2016, 31, 348-362.	2.1	58
44	Quantified sensitivity of small lake sediments to record historic earthquakes: Implications for paleoseismology. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2-16.	2.8	70
45	Land use development and environmental responses since the Neolithic around Lake Paladru in the French Pre-alps. <i>Journal of Archaeological Science: Reports</i> , 2016, 7, 48-59.	0.5	10
46	Erosion under climate and human pressures: An alpine lake sediment perspective. <i>Quaternary Science Reviews</i> , 2016, 152, 1-18.	3.0	106
47	Lake Pavin Paleolimnology and Event Stratigraphy. , 2016, , 381-406.		1
48	Long-term dynamics in microbial eukaryotes communities: a palaeolimnological view based on sedimentary <i>scpd</i> DNA. <i>Molecular Ecology</i> , 2016, 25, 5925-5943.	3.9	64
49	A hundred year record of industrial and urban development in French Alps combining Hg accumulation rates and isotope composition in sediment archives from Lake Luitel. <i>Chemical Geology</i> , 2016, 431, 10-19.	3.3	30
50	Erosion record in Lake La Thuile sediments (Prealps, France): Evidence of montane landscape dynamics throughout the Holocene. <i>Holocene</i> , 2016, 26, 350-364.	1.7	62
51	French Alpine Foreland Holocene Paleoseismicity Revealed by Coeval Mass Wasting Deposits in Glacial Lakes. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 341-349.	1.1	11
52	Is a regional flood signal reproducible from lake sediments?. <i>Sedimentology</i> , 2015, 62, 1103-1117.	3.1	43
53	High-resolution paleolimnology opens new management perspectives for lakes adaptation to climate warming. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	45
54	Historical Profiles of PCB in Dated Sediment Cores Suggest Recent Lake Contamination through the ‘Halo Effect’. <i>Environmental Science & Technology</i> , 2015, 49, 1303-1310.	10.0	22

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55	Lateglacial/Holocene environmental changes in the Mediterranean Alps inferred from lacustrine sediments. <i>Quaternary Science Reviews</i> , 2015, 110, 49-71.	3.0	33
56	Multi-scale phylogenetic heterogeneity of archaea, bacteria, methanogens and methanotrophs in lake sediments. <i>Hydrobiologia</i> , 2015, 751, 159-173.	2.0	36
57	Is Planktonic Diversity Well Recorded in Sedimentary DNA? Toward the Reconstruction of Past Protistan Diversity. <i>Microbial Ecology</i> , 2015, 70, 865-875.	2.8	55
58	Reconstructing long-term human impacts on plant communities: an ecological approach based on lake sediment <sc>DNA</sc>. <i>Molecular Ecology</i> , 2015, 24, 1485-1498.	3.9	109
59	A Geochemical Approach to Improve Radiocarbon-Based Age-Depth Models in Non-laminated Sediment Series. <i>Developments in Paleoenvironmental Research</i> , 2015, , 459-472.	8.0	3
60	Effects of nutrients and warming on <i><sc>P</sc>lanktothrix</i> dynamics and diversity: a palaeolimnological view based on sedimentary <sc>DNA</sc> and <sc>RNA</sc>. <i>Freshwater Biology</i> , 2015, 60, 31-49.	2.4	34
61	Calendar-dated glacier variations in the western European Alps during the Neoglacial: the Mer de Glace record, Mont Blanc massif. <i>Quaternary Science Reviews</i> , 2015, 108, 1-22.	3.0	80
62	Indicators of climate: Ecrins National Park participates in long-term monitoring to help determine the effects of climate change. <i>Eco Mont</i> , 2015, 8, 44-52.	0.1	2
63	The recording of floods and earthquakes in Lake Chichãj, Guatemala during the twentieth century. <i>Journal of Paleolimnology</i> , 2014, 52, 155-169.	1.6	6
64	Depth-specific responses of a chironomid assemblage to contrasting anthropogenic pressures: a palaeolimnological perspective from the last 150 years. <i>Freshwater Biology</i> , 2014, 59, 26-40.	2.4	13
65	Sediments of Lake Vens (SW European Alps, France) record large-magnitude earthquake events. <i>Journal of Paleolimnology</i> , 2014, 51, 343-355.	1.6	26
66	A 4D sedimentological approach to reconstructing the flood frequency and intensity of the RhÃne River (Lake Bourget, NW European Alps). <i>Journal of Paleolimnology</i> , 2014, 51, 469-483.	1.6	42
67	Long livestock farming history and human landscape shaping revealed by lake sediment DNA. <i>Nature Communications</i> , 2014, 5, 3211.	12.8	297
68	Long-term relationships among pesticide applications, mobility, and soil erosion in a vineyard watershed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15647-15652.	7.1	124
69	Reconstructing long-term changes (150 years) in the carbon cycle of a clear-water lake based on the stable carbon isotope composition ($\delta^{13}C$) of chironomid and cladoceran subfossil remains. <i>Freshwater Biology</i> , 2014, 59, 789-802.	2.4	33
70	Inherited hypoxia: A new challenge for reoligotrophicated lakes under global warming. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1413-1423.	4.9	41
71	Sentinel lakes: a network for the study and management of mountain lakes in the French Alps and in Corsica. <i>Eco Mont</i> , 2014, 5, 63-69.	0.1	4
72	DonnÃees nouvelles sur la chronologie de la dÃoglaciation dans la vallÃe du Haut-Verdon (lac dÃAllos). <i>Tj ET Og 0 0 rg BT / Overlo</i>	0.2	8

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73	Chironomid assemblages in cores from multiple water depths reflect oxygen-driven changes in a deep French lake over the last 150 years. <i>Journal of Paleolimnology</i> , 2013, 50, 257-273.	1.6	25
74	Influence of sample location and livestock numbers on <i>Sporormiella</i> concentrations and accumulation rates in surface sediments of Lake Allos, French Alps. <i>Journal of Paleolimnology</i> , 2013, 49, 117-127.	1.6	63
75	XANES spectroscopy as a tool to trace phosphorus transformation during soil genesis and mountain ecosystem development from lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 118, 129-147.	3.9	45
76	Palaeoflood activity and climate change over the last 1400 years recorded by lake sediments in the north-west European Alps. <i>Journal of Quaternary Science</i> , 2013, 28, 189-199.	2.1	98
77	Holocene land-use evolution and associated soil erosion in the French Prealps inferred from Lake Paladru sediments and archaeological evidences. <i>Journal of Archaeological Science</i> , 2013, 40, 1636-1645.	2.4	57
78	A possible terrigenous origin for perylene based on a sedimentary record of a pond (Lorraine, France). <i>Organic Geochemistry</i> , 2013, 58, 69-77.	1.8	27
79	Local forcings affect lake zooplankton vulnerability and response to climate warming. <i>Ecology</i> , 2013, 94, 2767-2780.	3.2	49
80	Non-reversible geosystem destabilisation at 4200 cal. BP: Sedimentological, geochemical and botanical markers of soil erosion recorded in a Mediterranean alpine lake. <i>Holocene</i> , 2013, 23, 1863-1874.	1.7	47
81	A spatiotemporal investigation of varved sediments highlights the dynamics of hypolimnetic hypoxia in a large hard-water lake over the last 150 years. <i>Limnology and Oceanography</i> , 2013, 58, 1395-1408.	3.1	55
82	6700 yr sedimentary record of climatic and anthropogenic signals in Lake Aydat (French Massif) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38</i>	1.7	33
83	Land-use changes and environmental dynamics in the upper Rhone valley since Neolithic times inferred from sediments in Lac Moras. <i>Holocene</i> , 2013, 23, 961-973.	1.7	27
84	DNA from lake sediments reveals the long-term dynamics and diversity of <i>Synechococcus</i> assemblages. <i>Biogeosciences</i> , 2013, 10, 3817-3838.	3.3	42
85	A sedimentary record of Holocene surface runoff events and earthquake activity from Lake Iseo (Southern Alps, Italy). <i>Holocene</i> , 2012, 22, 749-760.	1.7	60
86	Seismic stratigraphy of the late Quaternary sedimentary infill of Lac d'Armor (Kerguelen archipelago): a record of glacier retreat, sedimentary mass wasting and southern Westerly intensification. <i>Antarctic Science</i> , 2012, 24, 608-618.	0.9	11
87	Lake Bourget regional erosion patterns reconstruction reveals Holocene NW European Alps soil evolution and paleohydrology. <i>Quaternary Science Reviews</i> , 2012, 51, 81-92.	3.0	152
88	“The Alps with little ice” new evidences from a distant lake sediment record: Lake Bourget (NW) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38</i>	1.5	0
89	Lake level fluctuations at Lake Bourget (eastern France) around 4500–3500 cal. a BP and their palaeoclimatic and archaeological implications. <i>Journal of Quaternary Science</i> , 2012, 27, 494-502.	2.1	25
90	Does global warming favour the occurrence of extreme floods in European Alps? First evidences from a NW Alps proglacial lake sediment record. <i>Climatic Change</i> , 2012, 113, 563-581.	3.6	57

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91	Frequency and intensity of high-altitude floods over the last 3.5 ka in northwestern French Alps (Lake Tignes). <i>Quaternary Science Reviews</i> , 2012, 31, 1-12.	1.7	61
92	1400 years of extreme precipitation patterns over the Mediterranean French Alps and possible forcing mechanisms. <i>Quaternary Research</i> , 2012, 78, 1-12.	1.7	109
93	Approche multidisciplinaire d'une séquence lacustre holocène dans les Alpes du sud au Lac Petit (Mercantour, alt. 2200 m, France): histoire d'un écosystème dégradé. <i>Quaternaire</i> , 2012, , .	0.2	3
94	Siltation of river-influenced coastal environments: Respective impact of late Holocene land use and high-frequency climate changes. <i>Marine Geology</i> , 2011, 290, 51-62.	2.1	31
95	Spectrocolorimetric interpretation of sedimentary dynamics: The new Q7/4 diagram. <i>Earth-Science Reviews</i> , 2011, 109, 1-19.	9.1	79
96	Quantitative PCR Enumeration of Total/Toxic <i>Planktothrix rubescens</i> and Total Cyanobacteria in Preserved DNA Isolated from Lake Sediments. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8744-8753.	3.1	51
97	Sedimentological and geochemical records of past trophic state and hypolimnetic anoxia in large, hard-water Lake Bourget, French Alps. <i>Journal of Paleolimnology</i> , 2010, 43, 171-190.	1.6	53
98	Reconstruction of the recent history of a large deep prealpine lake (Lake Bourget, France) using subfossil chironomids, diatoms, and organic matter analysis: towards the definition of a lake-specific reference state. <i>Journal of Paleolimnology</i> , 2010, 44, 963-978.	1.6	42
99	Solar and proxy-sensitivity imprints on paleohydrological records for the last millennium in west-central Europe. <i>Quaternary Research</i> , 2010, 73, 173-179.	1.7	39
100	North western Alps Holocene paleohydrology recorded by flooding activity in Lake Le Bourget, France. <i>Quaternary Science Reviews</i> , 2010, 29, 2185-2200.	3.0	70
101	Possible complexity of the climatic event around 4300-3800 cal. BP in the central and western Mediterranean. <i>Holocene</i> , 2009, 19, 823-833.	1.7	175
102	Impacts of new agricultural practices on soil erosion during the Bronze Age in the French Prealps. <i>Holocene</i> , 2009, 19, 241-249.	1.7	33
103	Late-Holocene summer temperature reconstruction from chironomid assemblages of Lake Anterne, northern French Alps. <i>Holocene</i> , 2009, 19, 317-328.	1.7	49
104	Millet cultivation history in the French Alps as evidenced by a sedimentary molecule. <i>Journal of Archaeological Science</i> , 2008, 35, 814-820.	2.4	64
105	Assessment of peat quality by molecular and bulk geochemical analysis: Application to the Holocene record of the Chautagne marsh (Haute Savoie, France). <i>Chemical Geology</i> , 2008, 254, 101-112.	3.3	40
106	Temporal evolution of urban wet weather pollution: analysis of PCB and PAH in sediment cores from Lake Bourget, France. <i>Water Science and Technology</i> , 2008, 57, 1503-1510.	2.5	21
107	High-altitude varve records of abrupt environmental changes and mining activity over the last 4000 years in the Western French Alps (Lake Bramant, Grandes Rousses Massif). <i>Quaternary Science Reviews</i> , 2007, 26, 2644-2660.	3.0	163
108	Response on the comment from Ribeiro Guevara and Arribere on the article "Radiocesium dating (Pb-210, Cs-137, Am-241) of recent lake sediments in a highly geodynamic setting (Lakes Puyehue and Tj ETQq0 060rgBT /Overlock 10		

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109	Comment "Évaluer l'impact des rejets urbains de temps de pluie sur les milieux aquatiques ?". Techniques - Sciences - Methodes, 2007, , 59-71.	0.0	0
110	Radionuclide dating (^{210}Pb , ^{137}Cs , ^{241}Am) 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
111	Rhone River flood deposits in Lake Le Bourget: a proxy for Holocene environmental changes in the NW Alps, France. Boreas, 2005, 34, 404-416.	2.4	52
112	Holocene climates in the Alps: towards a common framework - an introduction. Boreas, 2005, 34, 401-403.	2.4	8
113	Reconstructing historical seismicity from lake sediments (Lake Laffrey, Western Alps, France). Terra Nova, 2005, 17, 350-357.	2.1	42
114	Discriminating Bio-Induced and Detrital Sedimentary Processes from Particle Size Distribution of Carbonates and Non-Carbonates in Hard Water Lake Sediments. Journal of Paleolimnology, 2005, 34, 519-526.	1.6	16
115	7200 years of Rhône river flooding activity in Lake Le Bourget, France: a high-resolution sediment record of NW Alps hydrology. Holocene, 2005, 15, 420-428.	1.7	131
116	Sr and Nd isotopes as tracers of clastic sources in Lake Le Bourget sediment (NW Alps, France) during the Little Ice Age: Palaeohydrology implications. Chemical Geology, 2005, 224, 183-200.	3.3	34
117	A 300 year history of lead contamination in northern French Alps reconstructed from distant lake sediment records. Journal of Environmental Monitoring, 2004, 6, 448-456.	2.1	33
118	Lead fall-out isotopic signal over French northern Alps: Timing and sources constraints from distant lake sediment records. European Physical Journal Special Topics, 2003, 107, 61-64.	0.2	3
119	Flood and earthquake disturbance of ^{210}Pb geochronology (Lake Anterne, NW Alps). Terra Nova, 2002, 14, 225-232.	2.1	131
120	Two Millennia of Complexity and Variability in a Perialpine Socioecological System (Savoie, France): The Contribution of Palynology and sedaDNA Analysis. Frontiers in Ecology and Evolution, 0, 10, .	2.2	5