

Marie-France Loutre

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

11,066
citations

47
h-index

101
g-index

101
ext. papers

12,358
ext. citations

6.2
avg, IF

5.88
L-index

#	Paper	IF	Citations
94	Insolation values for the climate of the last 10 million years. <i>Quaternary Science Reviews</i> , 1991 , 10, 297-313	3.7	2931
93	Results of PMIP2 coupled simulations of the Mid-Holocene and Last Glacial Maximum [Part 1: experiments and large-scale features. <i>Climate of the Past</i> , 2007 , 3, 261-277	3.9	974
92	Alternate interpretation of the Messinian salinity crisis: Controversy resolved?. <i>Geology</i> , 1996 , 24, 363	5	351
91	Earth system models of intermediate complexity: closing the gap in the spectrum of climate system models. <i>Climate Dynamics</i> , 2002 , 18, 579-586	4.2	342
90	Stability of the Astronomical Frequencies Over the Earth's History for Paleoclimate Studies. <i>Science</i> , 1992 , 255, 560-6	33.3	320
89	Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). <i>Geophysical Research Letters</i> , 1999 , 26, 859-862	4.9	318
88	Principles for knowledge co-production in sustainability research. <i>Nature Sustainability</i> , 2020 , 3, 182-190	22.1	317
87	Results of PMIP2 coupled simulations of the Mid-Holocene and Last Glacial Maximum [Part 2: feedbacks with emphasis on the location of the ITCZ and mid- and high latitudes heat budget. <i>Climate of the Past</i> , 2007 , 3, 279-296	3.9	316
86	An optimized multi-proxy, multi-site Antarctic ice and gas orbital chronology (AICC2012): 120800 ka. <i>Climate of the Past</i> , 2013 , 9, 1715-1731	3.9	261
85	Climate. An exceptionally long interglacial ahead?. <i>Science</i> , 2002 , 297, 1287-8	33.3	233
84	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. <i>Geoscientific Model Development</i> , 2010 , 3, 603-633	6.3	219
83	Long-Term Climate Commitments Projected with Climate Carbon Cycle Models. <i>Journal of Climate</i> , 2008 , 21, 2721-2751	4.4	197
82	Biogeophysical effects of historical land cover changes simulated by six Earth system models of intermediate complexity. <i>Climate Dynamics</i> , 2006 , 26, 587-600	4.2	195
81	THE CONTRIBUTION OF ORBITAL FORCING TO THE PROGRESSIVE INTENSIFICATION OF NORTHERN HEMISPHERE GLACIATION. <i>Quaternary Science Reviews</i> , 1998 , 17, 411-426	3.9	190
80	Marine Isotope Stage 11 as an analogue for the present interglacial. <i>Global and Planetary Change</i> , 2003 , 36, 209-217	4.2	182
79	Modelling northern hemisphere ice volume over the last 3Ma. <i>Quaternary Science Reviews</i> , 1999 , 18, 1-11	3.9	172
78	Revealing climatic variability of the last three millennia in northwestern Iberia using pollen influx data. <i>Earth and Planetary Science Letters</i> , 2003 , 213, 63-78	5.3	153

77	Increasing vegetation and climate gradient in Western Europe over the Last Glacial Inception (122±10 ka): data-model comparison. <i>Earth and Planetary Science Letters</i> , 2005 , 231, 111-130	5.3	143
76	Influence of Bering Strait flow and North Atlantic circulation on glacial sea-level changes. <i>Nature Geoscience</i> , 2010 , 3, 118-121	18.3	117
75	Does mean annual insolation have the potential to change the climate?. <i>Earth and Planetary Science Letters</i> , 2004 , 221, 1-14	5.3	117
74	Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. <i>Nature Geoscience</i> , 2018 , 11, 474-485	18.3	115
73	Climate evolution during the Holocene: a study with an Earth system model of intermediate complexity. <i>Climate Dynamics</i> , 2002 , 19, 43-60	4.2	108
72	Insolation and Earth's orbital periods. <i>Journal of Geophysical Research</i> , 1993 , 98, 10341		106
71	Equatorial insolation: from precession harmonics to eccentricity frequencies. <i>Climate of the Past</i> , 2006 , 2, 131-136	3.9	104
70	Transient simulations over the last interglacial period (126±15 kyr BP): feedback and forcing analysis. <i>Climate Dynamics</i> , 2002 , 19, 417-433	4.2	92
69	Influence of the changing lunar orbit on the astronomical frequencies of pre-Quaternary insolation patterns. <i>Paleoceanography</i> , 1989 , 4, 555-564		92
68	Future Climatic Changes: Are We Entering an Exceptionally Long Interglacial?. <i>Climatic Change</i> , 2000 , 46, 61-90	4.5	90
67	Sensitivity of the LLN climate model to the astronomical and CO2 forcings over the last 200 ky. <i>Climate Dynamics</i> , 1998 , 14, 615-629	4.2	89
66	Spectral analysis of climate data. <i>Surveys in Geophysics</i> , 1996 , 17, 619-663	7.6	88
65	Past temperature reconstructions from deep ice cores: relevance for future climate change. <i>Climate of the Past</i> , 2006 , 2, 145-165	3.9	85
64	Is vegetation responsible for glacial inception during periods of muted insolation changes?. <i>Quaternary Science Reviews</i> , 2005 , 24, 1361-1374	3.9	84
63	Dansgaard-Deschger climatic variability revealed by fire emissions in southwestern Iberia. <i>Quaternary Science Reviews</i> , 2007 , 26, 1369-1383	3.9	81
62	The role of forcing and internal dynamics in explaining the Medieval Climate Anomaly. <i>Climate Dynamics</i> , 2012 , 39, 2847-2866	4.2	80
61	Astronomical frequencies for pre-Quaternary palaeoclimate studies. <i>Terra Nova</i> , 1989 , 1, 474-479	3	74
60	Stability Analysis of the Climate-Vegetation System in the Northern High Latitudes. <i>Climatic Change</i> , 2003 , 57, 119-138	4.5	73

59	Intertropical Latitudes and Precessional and Half-Precessional Cycles. <i>Science</i> , 1997 , 278, 1476-1478	33.3	70
58	Astronomical solutions for paleoclimate studies over the last 3 million years. <i>Earth and Planetary Science Letters</i> , 1992 , 111, 369-382	5.3	70
57	Antarctic ice-sheet melting provides negative feedbacks on future climate warming. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	67
56	The local insolation signature of air content in Antarctic ice. A new step toward an absolute dating of ice records. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 337-349	5.3	66
55	Response of the Greenland and Antarctic Ice Sheets to Multi-Millennial Greenhouse Warming in the Earth System Model of Intermediate Complexity LOVECLIM. <i>Surveys in Geophysics</i> , 2011 , 32, 397-416	7.6	65
54	Impact of transient freshwater releases in the Southern Ocean on the AMOC and climate. <i>Climate Dynamics</i> , 2009 , 33, 365-381	4.2	64
53	Decadal periodicities of Nile River historical discharge (A.D. 622–1470) and climatic implications. <i>Geophysical Research Letters</i> , 1998 , 25, 3193-3196	4.9	61
52	Evaluation of the astronomically calibrated time scale for the Late Pliocene and Earliest Pleistocene. <i>Paleoceanography</i> , 1993 , 8, 549-565		59
51	Climate of the last millennium: a sensitivity study. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2002 , 54, 221-244	2	58
50	Orbital forced frequencies in the 975 000 year pollen record from Tenagi Philippon (Greece). <i>Climate Dynamics</i> , 1995 , 11, 4-24	4.2	58
49	Climatic variability in the northwestern Alps, France, as evidenced by 600 years of terrigenous sedimentation in Lake Le Bourget. <i>Holocene</i> , 2002 , 12, 177-185	2.6	55
48	How the simulated change in monsoon at 6 ka BP is related to the simulation of the modern climate: results from the Paleoclimate Modeling Intercomparison Project. <i>Climate Dynamics</i> , 2002 , 19, 107-121	4.2	54
47	Total irradiation during any time interval of the year using elliptic integrals. <i>Quaternary Science Reviews</i> , 2010 , 29, 1968-1982	3.9	45
46	Astronomical frequencies for climate research at the decadal to century time scale. <i>Climate Dynamics</i> , 1992 , 7, 181-194	4.2	45
45	On the origin of the 100-kyr cycles in the astronomical forcing. <i>Paleoceanography</i> , 2005 , 20, n/a-n/a		40
44	Astronomical Forcing through Geological Time 15-24		39
43	Clues from MIS 11 to predict the future climate – a modelling point of view. <i>Earth and Planetary Science Letters</i> , 2003 , 212, 213-224	5.3	37
42	Last Interglacial climate and sea-level evolution from a coupled ice sheet–climate model. <i>Climate of the Past</i> , 2016 , 12, 2195-2213	3.9	37

41	The Eurasian ice sheet reinforces the East Asian summer monsoon during the interglacial 500 000 years ago. <i>Climate of the Past</i> , 2008 , 4, 79-90	3.9	35
40	Cold-water coral carbonate mounds as unique palaeo-archives: the Plio-Pleistocene Challenger Mound record (NE Atlantic). <i>Quaternary Science Reviews</i> , 2013 , 73, 14-30	3.9	32
39	Towards orbital dating of the EPICA Dome C ice core using $\delta^{18}O$ and $\delta^{15}N$. <i>Climate of the Past</i> , 2012 , 8, 191-203	3.9	32
38	CO2 and Northern Hemisphere ice volume variations over the middle and late Quaternary. <i>Climate Dynamics</i> , 1998 , 14, 537-544	4.2	32
37	Information on the early Holocene climate constrains the summer sea ice projections for the 21st century. <i>Climate of the Past</i> , 2007 , 3, 683-692	3.9	32
36	No glacial-interglacial cycle in the ice volume simulated under a constant astronomical forcing and a variable CO2. <i>Geophysical Research Letters</i> , 2000 , 27, 783-786	4.9	31
35	Simulating Late Pliocene northern hemisphere climate with the LLN 2-D Model. <i>Geophysical Research Letters</i> , 1998 , 25, 915-918	4.9	29
34	Impact of Greenland and Antarctic ice sheet interactions on climate sensitivity. <i>Climate Dynamics</i> , 2011 , 37, 1005-1018	4.2	28
33	Climate 400,000 Years Ago, a Key to the Future?. <i>Geophysical Monograph Series</i> , 2003 , 17-26	1.1	28
32	Early Pliocene vegetation changes forced by eccentricity-precession. Example from Southwestern Romania. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006 , 238, 340-348	2.9	25
31	On the potential of coupling air content and O2/N2 from trapped air for establishing an ice core chronology tuned on local insolation. <i>Quaternary Science Reviews</i> , 2011 , 30, 3280-3289	3.9	24
30	Millennial total sea-level commitments projected with the Earth system model of intermediate complexity LOVECLIM. <i>Environmental Research Letters</i> , 2012 , 7, 045401	6.2	24
29	Climate oscillations evidenced by spectral analysis of Southern Chilean lacustrine sediments: the assessment of ENSO over the last 600 years. <i>Journal of Paleolimnology</i> , 2008 , 39, 253-266	2.1	24
28	Effect of isostatic rebound on modelled ice volume variations during the last 200 kyr. <i>Earth and Planetary Science Letters</i> , 2001 , 184, 623-633	5.3	23
27	The Climate Response to the Astronomical Forcing. <i>Space Science Reviews</i> , 2007 , 125, 213-226	7.5	21
26	A 17,900-year multi-proxy lacustrine record of Lago Puyehue (Chilean Lake District): introduction. <i>Journal of Paleolimnology</i> , 2008 , 39, 151-161	2.1	21
25	Factors controlling the last interglacial climate as simulated by LOVECLIM1.3. <i>Climate of the Past</i> , 2014 , 10, 1541-1565	3.9	19
24	Climate of the last millennium: a sensitivity study. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2002 , 54, 221-244	2	19

23	Potential impact of the northern hemisphere Quaternary ice sheets on the frequencies of the astroclimatic orbital parameters. <i>Journal of Geophysical Research</i> , 1990 , 95, 7573		17
22	Astronomical theory of climate change. <i>European Physical Journal Special Topics</i> , 2004 , 121, 1-35		16
21	The Earth's Climate in the Next Hundred Thousand years (100 kyr). <i>Surveys in Geophysics</i> , 2003 , 24, 117-138		15
20	Théorie astronomique des paléoclimats. <i>Comptes Rendus - Geoscience</i> , 2004 , 336, 701-709	1.4	15
19	Commentary on "The Anthropogenic Greenhouse Era Began Thousands of Years Ago" <i>Climatic Change</i> , 2005 , 69, 13-426	4.5	15
18	Evaluating climate model performance with various parameter sets using observations over the recent past. <i>Climate of the Past</i> , 2011 , 7, 511-526	3.9	13
17	LONG-TERM VARIATIONS IN INSOLATION AND THEIR EFFECTS ON CLIMATE, THE LLN EXPERIMENTS. <i>Surveys in Geophysics</i> , 1997 , 18, 147-161	7.6	13
16	Past abrupt changes, tipping points and cascading impacts in the Earth system. <i>Nature Geoscience</i> , 2021 , 14, 550-558	18.3	13
15	Impact of ice sheet meltwater fluxes on the climate evolution at the onset of the Last Interglacial. <i>Climate of the Past</i> , 2016 , 12, 1721-1737	3.9	12
14	On the importance of initial conditions for simulations of the Mid-Holocene climate. <i>Climate of the Past</i> , 2006 , 2, 91-97	3.9	10
13	Modeling the 100-kyr glacial-interglacial cycles. <i>Global and Planetary Change</i> , 2010 , 72, 275-281	4.2	9
12	2. Insolation during interglacial. <i>Developments in Quaternary Sciences</i> , 2007 , 7, 13-27	0.5	8
11	Greenland Ice Sheet over the next 5000 years. <i>Geophysical Research Letters</i> , 1995 , 22, 783-786	4.9	8
10	Introduction to the special issue "Climate of the past 2000 years: regional and trans-regional syntheses" <i>Climate of the Past</i> , 2019 , 15, 611-615	3.9	6
9	Co-production of knowledge and sustainability transformations: a strategic compass for global research networks. <i>Current Opinion in Environmental Sustainability</i> , 2021 , 49, 127-142	7.2	6
8	36. Interglacials as simulated by the LLN 2-D NH and MoBidiC climate models. <i>Developments in Quaternary Sciences</i> , 2007 , 7, 547-561	0.5	4
7	40. Chronology and climate forcing of the last four interglacials. <i>Developments in Quaternary Sciences</i> , 2007 , 7, 597-614	0.5	2
6	Insolation, CO2 et précipitations en période interglaciaire. <i>Comptes Rendus - Geoscience</i> , 2005 , 337, 69-78	1.4	1

5	Factors controlling the last interglacial climate as simulated by LOVECLIM1.3		1
4	Impact of ice sheet meltwater fluxes on the climate evolution at the onset of the Last Interglacial		1
3	Preface "Climate change: from the geological past to the uncertain future" a symposium honouring Andr�Berger". <i>Climate of the Past</i> , 2009 , 5, 707-711	3.9	0
2	Ice-sheet growth and high-latitudes sea-surface temperature. <i>Climate Dynamics</i> , 1996 , 12, 441-448	4.2	0
1	4. Modelling the 100-kyr cycle an example from LLN EMICs. <i>Developments in Quaternary Sciences</i> , 2007 , 7, 37-44	0.5	