Emmanuel Thibert

List of Publications by Year
in descending order

50	2,473	304368	205818
papers	citations	22 h-index	48 g-index

61	61	61	2703
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global glacier mass changes and their contributions to sea-level rise from 1961 to 2016. Nature, 2019, 568, 382-386.	13.7	627
2	Reanalysing glacier mass balance measurement series. Cryosphere, 2013, 7, 1227-1245.	1.5	217
3	Glaciological and volumetric mass-balance measurements: error analysis over 51 years for Glacier de Sarennes, French Alps. Journal of Glaciology, 2008, 54, 522-532.	1.1	157
4	Thermodynamics and Kinetics of the Solid Solution of HCl in Ice. Journal of Physical Chemistry B, 1997, 101, 3554-3565.	1.2	130
5	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	1.3	126
6	Thermodynamics and Kinetics of the Solid Solution of HNO3 in Ice. Journal of Physical Chemistry B, 1998, 102, 4432-4439.	1.2	114
7	Common climatic signal from glaciers in the European Alps over the last 50â€‰years. Geophysical Research Letters, 2017, 44, 1376-1383.	1.5	74
8	Contribution of glacier runoff to water resources of La Paz city, Bolivia (16Â° S). Annals of Glaciology, 2015, 56, 147-154.	2.8	72
9	Two decades of responses (1986â€“2006) to climate by the Laurichard rock glacier, French Alps. Permafrost and Periglacial Processes, 2009, 20, 331-344.	1.5	62
10	25 years (1981â€“2005) of equilibrium-line altitude and mass-balance reconstruction on Glacier Blanc, French Alps, using remote-sensing methods and meteorological data. Journal of Glaciology, 2008, 54, 307-314.	1.1	61
11	Mechanism of incorporation of trace gases in ice grown from the gas phase. Geophysical Research Letters, 1996, 23, 3627-3630.	1.5	60
12	Best possible estimation of mass balance combining glaciological and geodetic methods. Annals of Glaciology, 2009, 50, 112-118.	2.8	52
13	Climatic drivers of seasonal glacier mass balances: an analysis of 6 decades at Glacier de Sarennes (French Alps). Cryosphere, 2013, 7, 47-66.	1.5	52
14	Determining past atmospheric HCl mixing ratios from ice core analyses. Journal of Atmospheric Chemistry, 1995, 21, 165-186.	1.4	45
15	Diffusion and solubility of HCl in ice: preliminary results. Geophysical Research Letters, 1994, 21, 601-604.	1.5	43
16	Avalanche impact pressure on an instrumented structure. Cold Regions Science and Technology, 2008, 54, 206-215.	1.6	41
17	Causes of Glacier Melt Extremes in the Alps Since 1949. Geophysical Research Letters, 2018, 45, 817-825.	1.5	36
18	The influence of snow cover thickness on the thermal regime of TÃªte Rousse Glacier (Mont Blanc) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 change. Journal of Geophysical Research, 2012, 117, .	3.3	35

#	Article	IF	Citations
19	Multi-Annual Kinematics of an Active Rock Glacier Quantified from Very High-Resolution DEMs: An Application-Case in the French Alps. Remote Sensing, 2018, 10, 547.	1.8	30
20	Origin of the outburst flood from Glacier de TÃªte Rousse in 1892 (Mont Blanc area, France). Journal of Glaciology, 2010, 56, 688-698.	1.1	29
21	Sub-kilometer Precipitation Datasets for Snowpack and Glacier Modeling in Alpine Terrain. Frontiers in Earth Science, 2019, 7, .	0.8	29
22	Extracting the temporal signal from a winter and summer mass-balance series: application to a six-decade record at Glacier de Sarennes, French Alps. Journal of Glaciology, 2011, 57, 134-150.	1.1	27
23	Merging terrestrial laser scanning technology with photogrammetric and total station data for the determination of avalanche modeling parameters. Cold Regions Science and Technology, 2015, 110, 223-230.	1.6	26
24	Effects of flow regime and sensor geometry on snow avalanche impact-pressure measurements. Journal of Glaciology, 2011, 57, 277-288.	1.1	24
25	Monitoring water accumulation in a glacier using magnetic resonance imaging. Cryosphere, 2014, 8, 155-166.	1.5	22
26	A simple analytical model for pressure on obstacles induced by snow avalanches. Annals of Glaciology, 2010, 51, 1-8.	2.8	21
27	Gravitational wet avalanche pressure on pylon-like structures. Cold Regions Science and Technology, 2016, 126, 66-75.	1.6	21
28	The full-scale avalanche test-site at Lautaret Pass (French Alps). Cold Regions Science and Technology, 2015, 115, 30-41.	1.6	20
29	A Nonlinear Statistical Model for Extracting a Climatic Signal From Glacier Mass Balance Measurements. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2228-2242.	1.0	20
30	Volume and frequency of ice avalanches from Taconnaz hanging glacier, French Alps. Annals of Glaciology, 2015, 56, 17-25.	2.8	19
31	Ground-penetrating radar and surface nuclear magnetic resonance monitoring of an englacial water-filled cavity in the polythermal glacier of TÃªte Rousse. Geophysics, 2016, 81, WA131-WA146.	1.4	18
32	Brief communication: Ad hoc estimation of glacier contributions to sea-level rise from the latest glaciological observations. Cryosphere, 2020, 14, 1043-1050.	1.5	18
33	An instrumented structure to measure avalanche impact pressure: Error analysis from Monte Carlo simulations. Cold Regions Science and Technology, 2009, 59, 242-250.	1.6	17
34	Geodetic point surface mass balances: a new approach to determine point surface mass balances on glaciers from remote sensing measurements. Cryosphere, 2021, 15, 1259-1276.	1.5	16
35	Determination of snowmaking efficiency on a ski slope from observations and modelling of snowmaking events and seasonalÂsnow accumulation. Cryosphere, 2017, 11, 891-909.	1.5	13
36	Interpretation of Volume and Flux Changes of the Laurichard Rock Glacier Between 1952 and 2019, French Alps. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006161.	1.0	13

#	Article	IF	Citations
37	Characterization of avalanche loading on impacted structures: a new approach based on inverse analysis. Journal of Glaciology, 2008, 54, 324-332.	1.1	12
38	Impact energy of an avalanche on a structure. Annals of Glaciology, 2010, 51, 45-54.	2.8	9
39	Mechanisms of subglacial cavity filling in Glacier de TÃªte Rousse, French Alps. Journal of Glaciology, 2015, 61, 609-623.	1.1	7
40	Evaluating ablation and environmental impact of giant anthropogenic snow patches (Yuzhno-Sakhalinsk, Russia). Cold Regions Science and Technology, 2015, 114, 44-60.	1.6	7
41	Bayesian calibration of an avalanche model from autocorrelated measurements along the flow: application to velocities extracted from photogrammetric images. Journal of Glaciology, 2020, 66, 373-385.	1.1	7
42	Un service dâ€™observation des glaciers des alpes franÃ§aises Â«Âglacioclim-alpesÂÂ», pour quoi faireÂ?. Houille Blanche, 2007, 93, 86-95.	0.3	7
43	Measurement of snow particle size and velocity in avalanche powder clouds. Journal of Glaciology, 2017, 63, 249-257.	1.1	6
44	Interactions of Gas Phase HCL and HNO3 with Ice. , 1996, , 567-571.		6
45	Comment on Â« Diffusion of HNO3in ice Â». Geophysical Research Letters, 1998, 25, 4389-4390.	1.5	4
46	L'Ã©volution des glaciers alpins et les risques d'origine glaciaire. La MÃ©tÃ©orologie, 2012, 8, 44.	0.5	3
47	Static and dynamic FE analysis of an RC protective structure dedicated to snow avalanche mitigation. Cold Regions Science and Technology, 2015, 112, 95-111.	1.6	3
48	DÃ©tection dâ€™une poche dâ€™eau au glacier de TÃªte Rousse en 2010 et mesures prÃ©ventives pour Ã©viter une catastrophe. Houille Blanche, 2012, 98, 34-41.	0.3	3
49	A combined GPR and SNMR monitoring of a drained intraglacial water pocket located into the polythermal glacier of Tête Rousse. , 2015, , .		0
50	Analysis of the Mechanical Behavior of the Laurichard Rock Glacier (French Alps) in the Recent Climatic Changes. Lecture Notes in Civil Engineering, 2021, , 917-924.	0.3	0