Esteban Alonso GonzÃ¡lez

List of Publications by Year
in descending order

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45 papers	833 citations	430874 18 h-index	552781 26 g-index
57 all docs	57 docs citations	57 times ranked	962 citing authors

#	Article	IF	Citations
1	Combined influence of maximum accumulation and melt rates on the duration of the seasonal snowpack over temperate mountains. Journal of Hydrology, 2022, 608, 127574.	5.4	3
2	Snow dynamics influence tree growth by controlling soil temperature in mountain pine forests. Agricultural and Forest Meteorology, 2021, 296, 108205.	4.8	22
3	The case of a southern European glacier which survived Roman and medieval warm periods but is disappearing under recent warming. Cryosphere, 2021, 15, 1157-1172.	3.9	11
4	MOSEV: a global burn severity database from MODIS (2000â€“2020). Earth System Science Data, 2021, 13, 1925-1938.	9.9	15
5	Light and Shadow in Mapping Alpine Snowpack With Unmanned Aerial Vehicles in the Absence of Ground Control Points. Water Resources Research, 2021, 57, e2020WR028980.	4.2	15
6	Changes in the frequency of global high mountain rain-on-snow events due to climate warming. Environmental Research Letters, 2021, 16, 094021.	5.2	19
7	Snowpack dynamics in the Lebanese mountains from quasi-dynamically downscaled ERA5 reanalysis updated by assimilating remotely sensed fractional snow-covered area. Hydrology and Earth System Sciences, 2021, 25, 4455-4471.	4.9	17
8	First evidence of rock wall permafrost in the Pyrenees (Vignemale peak, 3,298â€‰mâ€‰a.s.l.,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	3.4	4
9	The significance of monitoring high mountain environments to detect heavy precipitation hotspots: a case study in Gredos, Central Spain. Theoretical and Applied Climatology, 2021, 146, 1175-1188.	2.8	6
10	Toward an Iceâ€Free Mountain Range: Demise of Pyrenean Glaciers During 2011â€“2020. Geophysical Research Letters, 2021, 48, e2021GL094339.	4.0	20
11	Intercomparison of UAV platforms for mapping snow depth distribution in complex alpine terrain. Cold Regions Science and Technology, 2021, 190, 103344.	3.5	21
12	Spatial Downscaling of MODIS Snow Cover Observations Using Sentinel-2 Snow Products. Remote Sensing, 2021, 13, 4513.	4.0	12
13	Snow climatology for the mountains in the Iberian Peninsula using satellite imagery and simulations with dynamically downscaled reanalysis data. International Journal of Climatology, 2020, 40, 477-491.	3.5	19
14	Critical discussion of: â€œA farewell to glaciers: Ecosystem services loss in the Spanish Pyreneesâ€• Journal of Environmental Management, 2020, 275, 111247.	7.8	6
15	Topographic control of glacier changes since the end of the Little Ice Age in the Sierra Nevada de Santa Marta mountains, Colombia. Journal of South American Earth Sciences, 2020, 104, 102803.	1.4	7
16	Estimation of the spatiotemporal dynamic of snow water equivalent at mountain range scale under data scarcity. Science of the Total Environment, 2020, 741, 140485.	8.0	15
17	Snow Impurities in the Central Pyrenees: From Their Geochemical and Mineralogical Composition towards Their Impacts on Snow Albedo. Atmosphere, 2020, 11, 937.	2.3	10
18	Snowpack sensitivity to temperature, precipitation, and solar radiation variability over an elevational gradient in the Iberian mountains. Atmospheric Research, 2020, 243, 104973.	4.1	13

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19	Using visibility analysis to improve point density and processing time of SfMâ€MVS techniques for 3D reconstruction of landforms. Earth Surface Processes and Landforms, 2020, 45, 2524-2539.	2.5	10
20	Longâ€term trends (1958â€“2017) in snow cover duration and depth in the Pyrenees. International Journal of Climatology, 2020, 40, 6122-6136.	3.5	40
21	Elevation Effects on Air Temperature in a Topographically Complex Mountain Valley in the Spanish Pyrenees. Atmosphere, 2020, 11, 656.	2.3	12
22	Frozen ground and periglacial processes relationship in temperate high mountains: a case study at Monte Perdido-Tucarroya area (The Pyrenees, Spain). Journal of Mountain Science, 2020, 17, 1013-1031.	2.0	9
23	Variable effects of forest canopies on snow processes in a valley of the central Spanish Pyrenees. Hydrological Processes, 2020, 34, 2247-2262.	2.6	12
24	Intercomparison of measurements of bulk snow density and water equivalent of snow cover with snow core samplers: Instrumental bias and variability induced by observers. Hydrological Processes, 2020, 34, 3120-3133.	2.6	27
25	Maximum and minimum air temperature lapse rates in the Andean region of Ecuador and Peru. International Journal of Climatology, 2020, 40, 6150-6168.	3.5	13
26	Decoupling of warming mountain snowpacks from hydrological regimes. Environmental Research Letters, 2020, 15, 114006.	5.2	31
27	Generation of daily high-spatial resolution snow depth maps from in-situ measurement and time-lapse photographs. Cuadernos De Investigacion Geografica, 2020, 46, 59-79.	1.1	4
28	Impact of North Atlantic Oscillation on the Snowpack in Iberian Peninsula Mountains. Water (Switzerland), 2020, 12, 105.	2.7	15
29	Detecting snow-related signals in radial growth of Pinus uncinata mountain forests. Dendrochronologia, 2019, 57, 125622.	2.2	17
30	Air temperature measurements using autonomous self-recording dataloggers in mountainous and snow covered areas. Atmospheric Research, 2019, 224, 168-179.	4.1	12
31	Hydro-Meteorological Characterization of Major Floods in Spanish Mountain Rivers. Water (Switzerland), 2019, 11, 2641.	2.7	18
32	Ground-based remote-sensing techniques for diagnosis of the current state and recent evolution of the Monte Perdido Glacier, Spanish Pyrenees. Journal of Glaciology, 2019, 65, 85-100.	2.2	32
33	Air and wet bulb temperature lapse rates and their impact on snowmaking in a Pyrenean ski resort. Theoretical and Applied Climatology, 2019, 135, 1361-1373.	2.8	1
34	DinÃ¡mica del manto de nieve en una pequeÃ±a cuenca de montaÃ±a mediterrÃ¡nea: el caso del rÃo Tormes (Cuenca del Duero, EspaÃ±a). Revista De Geografia Norte Grande, 2018, , 9-34.	0.2	1
35	Estimation of nearâ€surface air temperature lapse rates over continental Spain and its mountain areas. International Journal of Climatology, 2018, 38, 3233-3249.	3.5	27
36	Daily gridded datasets of snow depth and snow water equivalent for the Iberian Peninsula from 1980 to 2014. Earth System Science Data, 2018, 10, 303-315.	9.9	34

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37	Effect of snow on mountain river regimes: an example from the Pyrenees. Frontiers of Earth Science, 2017, 11, 515-530.	2.1	20
38	Extreme hydrological events and the influence of reservoirs in a highly regulated river basin of northeastern Spain. Journal of Hydrology: Regional Studies, 2017, 12, 13-32.	2.4	43
39	Assessment of ski condition reliability in the Spanish and Andorran Pyrenees for the second half of the 20th century. Applied Geography, 2017, 79, 127-142.	3.7	25
40	Using very long-range terrestrial laser scanner to analyze the temporal consistency of the snowpack distribution in a high mountain environment. Journal of Mountain Science, 2017, 14, 823-842.	2.0	28
41	Different sensitivities of snowpacks to warming in Mediterranean climate mountain areas. Environmental Research Letters, 2017, 12, 074006.	5.2	73
42	A multiscale approach to assess geomorphological processes in a semiarid badland area (Ebro) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.1	13
43	Meteorological and snow distribution data in the Izas Experimental Catchment (Spanish Pyrenees) fromÂ2011ÂtoÂ2017. Earth System Science Data, 2017, 9, 993-1005.	9.9	21
44	Thinning of the Monte Perdido Glacier in the Spanish Pyrenees since 1981. Cryosphere, 2016, 10, 681-694.	3.9	49
45	Small-Scale Effect of Pine Stand Pruning on Snowpack Distribution in the Pyrenees Observed with a Terrestrial Laser Scanner. Forests, 2016, 7, 166.	2.1	6