

J Ignacio LÃ³pez-Moreno

List of Publications by Year in descending order

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Version: 2024-02-01

232
papers

20,758
citations

16411

64
h-index

11581

135
g-index

244
all docs

244
docs citations

244
times ranked

16758
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multiscalar Drought Index Sensitive to Global Warming: The Standardized Precipitation Evapotranspiration Index. <i>Journal of Climate</i> , 2010, 23, 1696-1718.	1.2	5,467
2	Response of vegetation to drought time-scales across global land biomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 52-57.	3.3	1,077
3	Mediterranean water resources in a global change scenario. <i>Earth-Science Reviews</i> , 2011, 105, 121-139.	4.0	687
4	Performance of Drought Indices for Ecological, Agricultural, and Hydrological Applications. <i>Earth Interactions</i> , 2012, 16, 1-27.	0.7	635
5	A New Global 0.5° Gridded Dataset (1901–2006) of a Multiscalar Drought Index: Comparison with Current Drought Index Datasets Based on the Palmer Drought Severity Index. <i>Journal of Hydrometeorology</i> , 2010, 11, 1033-1043.	0.7	537
6	Evidence of increasing drought severity caused by temperature rise in southern Europe. <i>Environmental Research Letters</i> , 2014, 9, 044001.	2.2	506
7	Climate change and mountain water resources: overview and recommendations for research, management and policy. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 471-504.	1.9	476
8	The European mountain cryosphere: a review of its current state, trends, and future challenges. <i>Cryosphere</i> , 2018, 12, 759-794.	1.5	382
9	Accurate Computation of a Streamflow Drought Index. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 318-332.	0.8	361
10	Hydrological response to different time scales of climatological drought: an evaluation of the Standardized Precipitation Index in a mountainous Mediterranean basin. <i>Hydrology and Earth System Sciences</i> , 2005, 9, 523-533.	1.9	259
11	Contribution of precipitation and reference evapotranspiration to drought indices under different climates. <i>Journal of Hydrology</i> , 2015, 526, 42-54.	2.3	245
12	The impact of droughts and water management on various hydrological systems in the headwaters of the Tagus River (central Spain). <i>Journal of Hydrology</i> , 2010, 386, 13-26.	2.3	227
13	Effects of the North Atlantic Oscillation (NAO) on combined temperature and precipitation winter modes in the Mediterranean mountains: Observed relationships and projections for the 21st century. <i>Global and Planetary Change</i> , 2011, 77, 62-76.	1.6	223
14	Assessing the Effect of Climate Oscillations and Land-use Changes on Streamflow in the Central Spanish Pyrenees. <i>Ambio</i> , 2003, 32, 283-286.	2.8	192
15	Impact of climate evolution and land use changes on water yield in the Ebro basin. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 311-322.	1.9	172
16	Recent trends in Iberian streamflows (1945–2005). <i>Journal of Hydrology</i> , 2012, 414-415, 463-475.	2.3	158
17	Environmental change and water management in the Pyrenees: Facts and future perspectives for Mediterranean mountains. <i>Global and Planetary Change</i> , 2008, 61, 300-312.	1.6	149
18	Positive and Negative Phases of the Wintertime North Atlantic Oscillation and Drought Occurrence over Europe: A Multitemporal-Scale Approach. <i>Journal of Climate</i> , 2008, 21, 1220-1243.	1.2	140

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19	Small scale spatial variability of snow density and depth over complex alpine terrain: Implications for estimating snow water equivalent. <i>Advances in Water Resources</i> , 2013, 55, 40-52.	1.7	136
20	Impact of climate and land use change on water availability and reservoir management: Scenarios in the Upper Aragn River, Spanish Pyrenees. <i>Science of the Total Environment</i> , 2014, 493, 1222-1231.	3.9	134
21	Homogenization and Assessment of Observed Near-Surface Wind Speed Trends over Spain and Portugal, 19612011*. <i>Journal of Climate</i> , 2014, 27, 3692-3712.	1.2	132
22	Hydrological response to climate variability at different time scales: A study in the Ebro basin. <i>Journal of Hydrology</i> , 2013, 477, 175-188.	2.3	131
23	Climate Change in Mediterranean Mountains during the 21st Century. <i>Ambio</i> , 2008, 37, 280-285.	2.8	129
24	Assessing trends in extreme precipitation events intensity and magnitude using nonstationary peaksoverthreshold analysis: a case study in northeast Spain from 1930 to 2006. <i>International Journal of Climatology</i> , 2011, 31, 2102-2114.	1.5	128
25	Impact of climate change on snowpack in the Pyrenees: Horizontal spatial variability and vertical gradients. <i>Journal of Hydrology</i> , 2009, 374, 384-396.	2.3	127
26	Challenges for drought mitigation in Africa: The potential use of geospatial data and drought information systems. <i>Applied Geography</i> , 2012, 34, 471-486.	1.7	127
27	Dam effects on droughts magnitude and duration in a transboundary basin: The Lower River Tagus, Spain and Portugal. <i>Water Resources Research</i> , 2009, 45, .	1.7	125
28	Recent Variations of Snowpack Depth in the Central Spanish Pyrenees. <i>Arctic, Antarctic, and Alpine Research</i> , 2005, 37, 253-260.	0.4	124
29	Trends in daily precipitation on the northeastern Iberian Peninsula, 19552006. <i>International Journal of Climatology</i> , 2010, 30, 1026-1041.	1.5	121
30	Hydrological drought response to meteorological drought in the Iberian Peninsula. <i>Climate Research</i> , 2013, 58, 117-131.	0.4	121
31	A multiscalar global evaluation of the impact of ENSO on droughts. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	120
32	A complete daily precipitation database for northeast Spain: reconstruction, quality control, and homogeneity. <i>International Journal of Climatology</i> , 2010, 30, 1146-1163.	1.5	119
33	The Little Ice Age in Iberian mountains. <i>Earth-Science Reviews</i> , 2018, 177, 175-208.	4.0	119
34	Comment on Characteristics and trends in various forms of the Palmer Drought Severity Index (PDSI) during 19002008 by Aiguo Dai. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	116
35	The influence of atmospheric circulation at different spatial scales on winter drought variability through a semi-arid climatic gradient in Northeast Spain. <i>International Journal of Climatology</i> , 2006, 26, 1427-1453.	1.5	115
36	Where Does the Iberian Peninsula Moisture Come From? An Answer Based on a Lagrangian Approach. <i>Journal of Hydrometeorology</i> , 2010, 11, 421-436.	0.7	111

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37	Reference evapotranspiration variability and trends in Spain, 1961â€“2011. <i>Global and Planetary Change</i> , 2014, 121, 26-40.	1.6	106
38	Influence of snow accumulation and snowmelt on streamflow in the central Spanish Pyrenees / Influence de lâ€™accumulation et de la fonte de la neige sur les Ã©coulements dans les PyrÃ©nÃ©es centrales espagnoles. <i>Hydrological Sciences Journal</i> , 2004, 49, .	1.2	101
39	Nonstationary influence of the North Atlantic Oscillation on European precipitation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	101
40	Extreme winter precipitation in the Iberian Peninsula in 2010: anomalies, driving mechanisms and future projections. <i>Climate Research</i> , 2011, 46, 51-65.	0.4	100
41	Trends in high flows in the central Spanish Pyrenees: response to climatic factors or to land-use change?. <i>Hydrological Sciences Journal</i> , 2006, 51, 1039-1050.	1.2	97
42	Sensitivity of reference evapotranspiration to changes in meteorological parameters in Spain (1961â€“2011). <i>Water Resources Research</i> , 2014, 50, 8458-8480.	1.7	94
43	Snow hydrology in Mediterranean mountain regions: A review. <i>Journal of Hydrology</i> , 2017, 551, 374-396.	2.3	94
44	Climate change prediction over complex areas: spatial variability of uncertainties and predictions over the Pyrenees from a set of regional climate models. <i>International Journal of Climatology</i> , 2008, 28, 1535-1550.	1.5	93
45	The changing roles of temperature and precipitation on snowpack variability in Switzerland as a function of altitude. <i>Geophysical Research Letters</i> , 2013, 40, 2131-2136.	1.5	91
46	Response of snow processes to climate change: spatial variability in a small basin in the Spanish Pyrenees. <i>Hydrological Processes</i> , 2013, 27, 2637-2650.	1.1	87
47	Reviews and perspectives of high impact atmospheric processes in the Mediterranean. <i>Atmospheric Research</i> , 2018, 208, 4-44.	1.8	85
48	Trend and variability of surface air temperature in northeastern Spain (1920â€“2006): Linkage to atmospheric circulation. <i>Atmospheric Research</i> , 2012, 106, 159-180.	1.8	83
49	Recent trends in daily temperature extremes over northeastern Spain (1960â€“2006). <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 2583-2603.	1.5	79
50	The complex influence of ENSO on droughts in Ecuador. <i>Climate Dynamics</i> , 2017, 48, 405-427.	1.7	78
51	Streamflow droughts in the Iberian Peninsula between 1945 and 2005: spatial and temporal patterns. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 119-134.	1.9	77
52	Recent glacier retreat and climate trends in Cordillera Huaytapallana, Peru. <i>Global and Planetary Change</i> , 2014, 112, 1-11.	1.6	74
53	Interpolating local snow depth data: an evaluation of methods. <i>Hydrological Processes</i> , 2006, 20, 2217-2232.	1.1	73
54	Annual and seasonal mapping of peak intensity, magnitude and duration of extreme precipitation events across a climatic gradient, northeast Spain. <i>International Journal of Climatology</i> , 2009, 29, 1759-1779.	1.5	73

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55	Different sensitivities of snowpacks to warming in Mediterranean climate mountain areas. <i>Environmental Research Letters</i> , 2017, 12, 074006.	2.2	73
56	Effects of warming processes on droughts and water resources in the NW Iberian Peninsula (1930-2006). <i>Climate Research</i> , 2011, 48, 203-212.	0.4	72
57	From plot to regional scales: Interactions of slope and catchment hydrological and geomorphic processes in the Spanish Pyrenees. <i>Geomorphology</i> , 2010, 120, 248-257.	1.1	71
58	Topographic control of snowpack distribution in a small catchment in the central Spanish Pyrenees: intra- and inter-annual persistence. <i>Cryosphere</i> , 2014, 8, 1989-2006.	1.5	71
59	Temporal evolution of surface humidity in Spain: recent trends and possible physical mechanisms. <i>Climate Dynamics</i> , 2014, 42, 2655-2674.	1.7	71
60	Fluvial adjustments to soil erosion and plant cover changes in the central Spanish pyrenees. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2006, 88, 177-186.	0.6	70
61	Hydrological impacts of climate and land-use changes in a mountain watershed: uncertainty estimation based on model comparison. <i>Ecohydrology</i> , 2015, 8, 1396-1416.	1.1	70
62	Evapotranspiration deficit controls net primary production and growth of silver fir: Implications for Circum-Mediterranean forests under forecasted warmer and drier conditions. <i>Agricultural and Forest Meteorology</i> , 2015, 206, 45-54.	1.9	68
63	Climate trends and variability in Ecuador (1966-2011). <i>International Journal of Climatology</i> , 2016, 36, 3839-3855.	1.5	68
64	Holocene and Little Ice Age glacial activity in the Marbor Cirque, Monte Perdido Massif, Central Spanish Pyrenees. <i>Holocene</i> , 2014, 24, 1439-1452.	0.9	67
65	Daily atmospheric circulation events and extreme precipitation risk in northeast Spain: Role of the North Atlantic Oscillation, the Western Mediterranean Oscillation, and the Mediterranean Oscillation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	66
66	Impacts of climate change on ski industry. <i>Environmental Science and Policy</i> , 2014, 44, 51-61.	2.4	66
67	Statistical analysis of the snow cover variability in a subalpine watershed: Assessing the role of topography and forest interactions. <i>Journal of Hydrology</i> , 2008, 348, 379-394.	2.3	65
68	Variability of snow depth at the plot scale: implications for mean depth estimation and sampling strategies. <i>Cryosphere</i> , 2011, 5, 617-629.	1.5	63
69	River regimes and recent hydrological changes in the Duero basin (Spain). <i>Journal of Hydrology</i> , 2011, 404, 241-258.	2.3	61
70	Influence of the North Atlantic Oscillation on water resources in central Iberia: Precipitation, streamflow anomalies, and reservoir management strategies. <i>Water Resources Research</i> , 2007, 43, .	1.7	59
71	The response of Iberian rivers to the North Atlantic Oscillation. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2581-2597.	1.9	58
72	Influence of canopy density on snow distribution in a temperate mountain range. <i>Hydrological Processes</i> , 2008, 22, 117-126.	1.1	57

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73	Streamflow timing of mountain rivers in Spain: Recent changes and future projections. <i>Journal of Hydrology</i> , 2014, 517, 1114-1127.	2.3	57
74	Late Pleistocene deglaciation in the upper GÃ³llego Valley, central Pyrenees. <i>Quaternary Research</i> , 2015, 83, 397-414.	1.0	56
75	Atmospheric circulation influence on the interannual variability of snow pack in the Spanish Pyrenees during the second half of the 20th century. <i>Hydrology Research</i> , 2007, 38, 33-44.	1.1	55
76	Climate, Irrigation, and Land Cover Change Explain Streamflow Trends in Countries Bordering the Northeast Atlantic. <i>Geophysical Research Letters</i> , 2019, 46, 10821-10833.	1.5	55
77	A generalized additive model for the spatial distribution of snowpack in the Spanish Pyrenees. <i>Hydrological Processes</i> , 2005, 19, 3167-3176.	1.1	54
78	Evaluation of the TMPA-3B42 precipitation product using a high-density rain gauge network over complex terrain in northeastern Iberia. <i>Global and Planetary Change</i> , 2015, 133, 188-200.	1.6	54
79	An Exceptional Rainfall Event in the Central Western Pyrenees: Spatial Patterns in Discharge and Impact. <i>Land Degradation and Development</i> , 2015, 26, 249-262.	1.8	54
80	The effect of slope aspect on the response of snowpack to climate warming in the Pyrenees. <i>Theoretical and Applied Climatology</i> , 2014, 117, 207-219.	1.3	53
81	Influence of the Yesa reservoir on floods of the AragÃ³n River, central Spanish Pyrenees. <i>Hydrology and Earth System Sciences</i> , 2002, 6, 753-762.	1.9	52
82	The application of terrestrial laser scanner and SfM photogrammetry in measuring erosion and deposition processes in two opposite slopes in a humid badlands area (central Spanish Pyrenees). <i>Soil</i> , 2015, 1, 561-573.	2.2	52
83	Responses to climatic changes since the Little Ice Age on Maladeta Glacier (Central Pyrenees). <i>Geomorphology</i> , 2005, 68, 167-182.	1.1	51
84	Comparison of different procedures to map reference evapotranspiration using geographical information systems and regression-based techniques. <i>International Journal of Climatology</i> , 2007, 27, 1103-1118.	1.5	51
85	Spatio-temporal variability of droughts in Bolivia: 1955-2012. <i>International Journal of Climatology</i> , 2015, 35, 3024-3040.	1.5	50
86	European In-Situ Snow Measurements: Practices and Purposes. <i>Sensors</i> , 2018, 18, 2016.	2.1	50
87	The impact of COVID-19 lockdowns on surface urban heat island changes and air-quality improvements across 21 major cities in the Middle East. <i>Environmental Pollution</i> , 2021, 288, 117802.	3.7	50
88	Thinning of the Monte Perdido Glacier in the Spanish Pyrenees since 1981. <i>Cryosphere</i> , 2016, 10, 681-694.	1.5	49
89	Evaluating anemometer drift: A statistical approach to correct biases in wind speed measurement. <i>Atmospheric Research</i> , 2018, 203, 175-188.	1.8	49
90	The Management of a Large Mediterranean Reservoir: Storage Regimens of the Yesa Reservoir, Upper Aragon River Basin, Central Spanish Pyrenees. <i>Environmental Management</i> , 2004, 34, 508-515.	1.2	46

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91	Stability of the seasonal distribution of precipitation in the Mediterranean region: Observations since 1950 and projections for the 21st century. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	46
92	Effects of climate change on the intensity and frequency of heavy snowfall events in the Pyrenees. <i>Climatic Change</i> , 2011, 105, 489-508.	1.7	44
93	Climate controls on rainfall isotopes and their effects on cave drip water and speleothem growth: the case of Molinos cave (Teruel, NE Spain). <i>Climate Dynamics</i> , 2014, 43, 221-241.	1.7	44
94	Global characterization of hydrological and meteorological droughts under future climate change: The importance of timescales, vegetationâ€œCO ₂ feedbacks and changes to distribution functions. <i>International Journal of Climatology</i> , 2020, 40, 2557-2567.	1.5	44
95	Extreme hydrological events and the influence of reservoirs in a highly regulated river basin of northeastern Spain. <i>Journal of Hydrology: Regional Studies</i> , 2017, 12, 13-32.	1.0	43
96	Transhumance and long-term deforestation in the subalpine belt of the central Spanish Pyrenees: An interdisciplinary approach. <i>Catena</i> , 2020, 195, 104744.	2.2	43
97	Los efectos geoecolÃ³gicos del cambio global en el Pirineo Central espaÃ±ol: una revisiÃ³n a distintas escalas espaciales y temporales. <i>Pirineos</i> , 2015, 170, e012.	0.6	43
98	Different patterns of climate change scenarios for short-term and multi-day precipitation extremes in the Mediterranean. <i>Global and Planetary Change</i> , 2012, 98-99, 63-72.	1.6	42
99	Investigation of scaling properties in monthly streamflow and Standardized Streamflow Index (SSI) time series in the Ebro basin (Spain). <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 1662-1678.	1.2	41
100	Performance Assessment of Optical Satellite-Based Operational Snow Cover Monitoring Algorithms in Forested Landscapes. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 7159-7178.	2.3	41
101	Will snowâ€œabundant winters still exist in the Swiss Alps in an enhanced greenhouse climate?. <i>International Journal of Climatology</i> , 2011, 31, 1257-1263.	1.5	40
102	Impact of climate warming on snow processes in Ny-Ã…lesund, a polar maritime site at Svalbard. <i>Global and Planetary Change</i> , 2016, 146, 10-21.	1.6	40
103	Longâ€œterm trends (1958â€œ2017) in snow cover duration and depth in the Pyrenees. <i>International Journal of Climatology</i> , 2020, 40, 6122-6136.	1.5	40
104	Snow cover response to climate change in a high alpine and half-glacierized basin in Switzerland. <i>Hydrology Research</i> , 2010, 41, 230-240.	1.1	39
105	Spatial and temporal variability of winter snow and precipitation days in the western and central Spanish Pyrenees. <i>International Journal of Climatology</i> , 2015, 35, 259-274.	1.5	39
106	Daily temperature extremes over Egypt: Spatial patterns, temporal trends, and driving forces. <i>Atmospheric Research</i> , 2019, 226, 219-239.	1.8	39
107	The NAO Impact on Droughts in the Mediterranean Region. <i>Advances in Global Change Research</i> , 2011, , 23-40.	1.6	38
108	Canopy influence on snow depth distribution in a pine stand determined from terrestrial laser data. <i>Water Resources Research</i> , 2015, 51, 3476-3489.	1.7	38

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109	Recent evolution (1981â€“2005) of the Maladeta glaciers, Pyrenees, Spain: extent and volume losses and their relation with climatic and topographic factors. <i>Journal of Glaciology</i> , 2007, 53, 547-557.	1.1	37
110	Snowpack variability across various spatio-temporal resolutions. <i>Hydrological Processes</i> , 2015, 29, 1213-1224.	1.1	37
111	Effect of reservoirs on streamflow and river regimes in a heavily regulated river basin of Northeast Spain. <i>Catena</i> , 2017, 149, 727-741.	2.2	37
112	Temperature trends in Libya over the second half of the 20th century. <i>Theoretical and Applied Climatology</i> , 2009, 98, 1-8.	1.3	36
113	An assessment of the role of homogenization protocol in the performance of daily temperature series and trends: application to northeastern Spain. <i>International Journal of Climatology</i> , 2013, 33, 87-108.	1.5	36
114	The vulnerability of Pyrenean ski resorts to climate-induced changes in the snowpack. <i>Climatic Change</i> , 2015, 131, 591-605.	1.7	36
115	The Westerly Index as complementary indicator of the North Atlantic oscillation in explaining drought variability across Europe. <i>Climate Dynamics</i> , 2016, 47, 845-863.	1.7	36
116	Sensitivity of the snow energy balance to climatic changes: prediction of snowpack in the Pyrenees in the 21st century. <i>Climate Research</i> , 2008, 36, 203-217.	0.4	36
117	Assessment of snowfall accumulation underestimation by tipping bucket gauges in the Spanish operational network. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1079-1091.	1.2	36
118	Mapping the annual evolution of snow depth in a small catchment in the Pyrenees using the long-range terrestrial laser scanning. <i>Journal of Maps</i> , 2014, 10, 379-393.	1.0	34
119	Daily gridded datasets of snow depth and snow water equivalent for the Iberian Peninsula from 1980 to 2014. <i>Earth System Science Data</i> , 2018, 10, 303-315.	3.7	34
120	Impacts of future land cover and climate change on the water balance in northern Iran. <i>Hydrological Sciences Journal</i> , 2017, 62, 2655-2673.	1.2	33
121	Daily precipitation intensity projected for the 21st century: seasonal changes over the Pyrenees. <i>Theoretical and Applied Climatology</i> , 2009, 95, 375-384.	1.3	32
122	Combining snowpack modeling and terrestrial laser scanner observations improves the simulation of small scale snow dynamics. <i>Journal of Hydrology</i> , 2016, 533, 291-307.	2.3	32
123	Assessing the impact of measurement time interval when calculating wind speed means and trends under the stilling phenomenon. <i>International Journal of Climatology</i> , 2017, 37, 480-492.	1.5	32
124	Recent changes in monthly surface air temperature over Peru, 1964â€“2014. <i>International Journal of Climatology</i> , 2018, 38, 283-306.	1.5	32
125	Post-little ice age paraglacial processes and landforms in the high Iberian mountains: A review. <i>Land Degradation and Development</i> , 2018, 29, 4186-4208.	1.8	32
126	Ground-based remote-sensing techniques for diagnosis of the current state and recent evolution of the Monte Perdido Glacier, Spanish Pyrenees. <i>Journal of Glaciology</i> , 2019, 65, 85-100.	1.1	32

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127	Decoupling of warming mountain snowpacks from hydrological regimes. Environmental Research Letters, 2020, 15, 114006.	2.2	31
128	Changes in the frequency and severity of hydrological droughts over Ethiopia from 1960 to 2013. Cuadernos De Investigacion Geografica, 2016, 42, 145-166.	0.6	31
129	Rain-on-snow events in Switzerland: recent observations and projections for the 21st century. Climate Research, 2016, 71, 111-125.	0.4	31
130	Estimating Fractional Snow Cover in Open Terrain from Sentinel-2 Using the Normalized Difference Snow Index. Remote Sensing, 2020, 12, 2904.	1.8	30
131	Spatial Predictions of Extreme Wind Speeds over Switzerland Using Generalized Additive Models. Journal of Applied Meteorology and Climatology, 2010, 49, 1956-1970.	0.6	29
132	Glacier development and topographic context. Earth Surface Processes and Landforms, 2006, 31, 1585-1594.	1.2	28
133	Recent changes in continentality and aridity conditions over the Middle East and North Africa region, and their association with circulation patterns. Climate Research, 2016, 69, 25-43.	0.4	28
134	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.	0.8	28
135	Land-cover changes and recent hydrological evolution in the Duero Basin (Spain). Regional Environmental Change, 2012, 12, 17-33.	1.4	27
136	Estimation of near-surface air temperature lapse rates over continental Spain and its mountain areas. International Journal of Climatology, 2018, 38, 3233-3249.	1.5	27
137	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.	1.1	27
138	Change of topographic control on the extent of cirque glaciers since the Little Ice Age. Geophysical Research Letters, 2006, 33, .	1.5	26
139	Summer temperature extremes in northeastern Spain: spatial regionalization and links to atmospheric circulation (1960-2006). Theoretical and Applied Climatology, 2013, 113, 387-405.	1.3	26
140	Evolution and frequency (1970-2007) of combined temperature-precipitation modes in the Spanish mountains and sensitivity of snow cover. Regional Environmental Change, 2013, 13, 873-885.	1.4	26
141	Effects of sample and grid size on the accuracy and stability of regression-based snow interpolation methods. Hydrological Processes, 2010, 24, 1914-1928.	1.1	25
142	Recent temperature variability and change in the Altiplano of Bolivia and Peru. International Journal of Climatology, 2016, 36, 1773-1796.	1.5	25
143	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.	1.7	25
144	Power spectral characteristics of drought indices in the Ebro river basin at different temporal scales. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1155-1170.	1.9	24

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145	Evidence for intensification of meteorological droughts in Oman over the past four decades. <i>Atmospheric Research</i> , 2020, 246, 105126.	1.8	24
146	Spatio-temporal snowmelt variability across the headwaters of the Southern Rocky Mountains. <i>Frontiers of Earth Science</i> , 2017, 11, 505-514.	0.9	22
147	A comparison of temporal variability of observed and model-based pan evaporation over Uruguay (1973-2014). <i>International Journal of Climatology</i> , 2018, 38, 337-350.	1.5	22
148	Snow dynamics influence tree growth by controlling soil temperature in mountain pine forests. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108205.	1.9	22
149	Impact of weather type variability on winter precipitation, temperature and annual snowpack in the Spanish Pyrenees. <i>Climate Research</i> , 2016, 69, 79-92.	0.4	21
150	Analysis and Predictability of the Hydrological Response of Mountain Catchments to Heavy Rain on Snow Events: A Case Study in the Spanish Pyrenees. <i>Hydrology</i> , 2017, 4, 20.	1.3	21
151	Increased Vegetation in Mountainous Headwaters Amplifies Water Stress During Dry Periods. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094672.	1.5	21
152	Intercomparison of UAV platforms for mapping snow depth distribution in complex alpine terrain. <i>Cold Regions Science and Technology</i> , 2021, 190, 103344.	1.6	21
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