

Sergio M M Vicente-Serrano

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269
papers

18,724
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66
h-index

131
g-index

277
ext. papers

22,172
ext. citations

4.5
avg, IF

7.19
L-index

#	Paper	IF	Citations
269	A Multiscalar Drought Index Sensitive to Global Warming: The Standardized Precipitation Evapotranspiration Index. <i>Journal of Climate</i> , 2010 , 23, 1696-1718	4.4	3667
268	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, 52-7	11.5	774
267	Standardized precipitation evapotranspiration index (SPEI) revisited: parameter fitting, evapotranspiration models, tools, datasets and drought monitoring. <i>International Journal of Climatology</i> , 2014 , 34, 3001-3023	3.5	739
266	Mediterranean water resources in a global change scenario. <i>Earth-Science Reviews</i> , 2011 , 105, 121-139	10.2	558
265	Performance of Drought Indices for Ecological, Agricultural, and Hydrological Applications. <i>Earth Interactions</i> , 2012 , 16, 1-27	1.5	474
264	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	3.7	395
263	Evidence of increasing drought severity caused by temperature rise in southern Europe. <i>Environmental Research Letters</i> , 2014 , 9, 044001	6.2	376
262	To die or not to die: early warnings of tree dieback in response to a severe drought. <i>Journal of Ecology</i> , 2015 , 103, 44-57	6	317
261	Differences in Spatial Patterns of Drought on Different Time Scales: An Analysis of the Iberian Peninsula. <i>Water Resources Management</i> , 2006 , 20, 37-60	3.7	270
260	Mountain Mediterranean landscape evolution caused by the abandonment of traditional primary activities: a study of the Spanish Central Pyrenees. <i>Applied Geography</i> , 2005 , 25, 47-65	4.4	252
259	Accurate Computation of a Streamflow Drought Index. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 318-332	1.8	250
258	Comparative analysis of interpolation methods in the middle Ebro Valley (Spain): application to annual precipitation and temperature. <i>Climate Research</i> , 2003 , 24, 161-180	1.6	249
257	Impacts of drought at different time scales on forest growth across a wide climatic gradient in north-eastern Spain. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1800-1811	5.8	203
256	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	5.5	203
255	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	6	197
254	A Multiscalar Global Drought Dataset: The SPEIbase: A New Gridded Product for the Analysis of Drought Variability and Impacts. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 1351-1356	6.1	196
253	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	4.2	183

252	Contribution of precipitation and reference evapotranspiration to drought indices under different climates. <i>Journal of Hydrology</i> , 2015 , 526, 42-54	6	169
251	Evaluating the Impact of Drought Using Remote Sensing in a Mediterranean, Semi-arid Region. <i>Natural Hazards</i> , 2007 , 40, 173-208	3	160
250	Assessment of radiometric correction techniques in analyzing vegetation variability and change using time series of Landsat images. <i>Remote Sensing of Environment</i> , 2008 , 112, 3916-3934	13.2	157
249	Forest resilience to drought varies across biomes. <i>Global Change Biology</i> , 2018 , 24, 2143-2158	11.4	150
248	Spatial and temporal analysis of droughts in the Iberian Peninsula (1910-2000). <i>Hydrological Sciences Journal</i> , 2006 , 51, 83-97	3.5	150
247	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	5.5	139
246	Impacts of droughts on the growth resilience of Northern Hemisphere forests. <i>Global Ecology and Biogeography</i> , 2017 , 26, 166-176	6.1	138
245	Recent trends in Iberian streamflows (1945-2005). <i>Journal of Hydrology</i> , 2012 , 414-415, 463-475	6	137
244	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	4.4	124
243	Drought impacts on vegetation activity in the Mediterranean region: An assessment using remote sensing data and multi-scale drought indicators. <i>Global and Planetary Change</i> , 2017 , 151, 15-27	4.2	117
242	Impact of climate and land use change on water availability and reservoir management: scenarios in the Upper Aragón River, Spanish Pyrenees. <i>Science of the Total Environment</i> , 2014 , 493, 1222-31	10.2	115
241	drought patterns in the Mediterranean area: the Valencia region (eastern Spain). <i>Climate Research</i> , 2004 , 26, 5-15	1.6	114
240	Analysis of spatial and temporal evolution of vegetation cover in the Spanish Central Pyrenees: role of human management. <i>Environmental Management</i> , 2004 , 34, 802-18	3.1	110
239	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	4.4	106
238	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	3.5	106
237	Hydrological response to climate variability at different time scales: A study in the Ebro basin. <i>Journal of Hydrology</i> , 2013 , 477, 175-188	6	104
236	Dryness is accelerating degradation of vulnerable shrublands in semiarid Mediterranean environments. <i>Ecological Monographs</i> , 2012 , 82, 407-428	9	102
235	A review of environmental droughts: Increased risk under global warming?. <i>Earth-Science Reviews</i> , 2020 , 201, 102953	10.2	102

234	A complete daily precipitation database for northeast Spain: reconstruction, quality control, and homogeneity. <i>International Journal of Climatology</i> , 2009 , 30, 1146-1163	3.5	101
233	Trends in daily precipitation on the northeastern Iberian Peninsula, 1955-2006. <i>International Journal of Climatology</i> , 2010 , 30, 1026-1041	3.5	101
232	Challenges for drought mitigation in Africa: The potential use of geospatial data and drought information systems. <i>Applied Geography</i> , 2012 , 34, 471-486	4.4	99
231	Where Does the Iberian Peninsula Moisture Come From? An Answer Based on a Lagrangian Approach. <i>Journal of Hydrometeorology</i> , 2010 , 11, 421-436	3.7	98
230	A multiscalar global evaluation of the impact of ENSO on droughts. <i>Journal of Geophysical Research</i> , 2011 , 116,		97
229	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,		97
228	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	3.5	97
227	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,	5.4	96
226	Extreme winter precipitation in the Iberian Peninsula in 2010: anomalies, driving mechanisms and future projections. <i>Climate Research</i> , 2011 , 46, 51-65	1.6	95
225	Diverse responses of forest growth to drought time-scales in the Northern Hemisphere. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1019-1030	6.1	93
224	Reference evapotranspiration variability and trends in Spain, 1961-2011. <i>Global and Planetary Change</i> , 2014 , 121, 26-40	4.2	89
223	A High Resolution Dataset of Drought Indices for Spain. <i>Data</i> , 2017 , 2, 22	2.3	87
222	Nonstationary influence of the North Atlantic Oscillation on European precipitation. <i>Journal of Geophysical Research</i> , 2008 , 113,		86
221	The Impact of the North Atlantic Oscillation on Renewable Energy Resources in Southwestern Europe. <i>Journal of Applied Meteorology and Climatology</i> , 2013 , 52, 2204-2225	2.7	85
220	Hydrological drought response to meteorological drought in the Iberian Peninsula. <i>Climate Research</i> , 2013 , 58, 117-131	1.6	85
219	Do tourism-based ski resorts contribute to the homogeneous development of the Mediterranean mountains? A case study in the Central Spanish Pyrenees. <i>Tourism Management</i> , 2007 , 28, 1326-1339	10.8	85
218	Mapping rainfall erosivity at a regional scale: a comparison of interpolation methods in the Ebro Basin (NE Spain). <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 1907-1920	5.5	84
217	Estimating extreme dry-spell risk in the middle Ebro valley (northeastern Spain): a comparative analysis of partial duration series with a general Pareto distribution and annual maxima series with a Gumbel distribution. <i>International Journal of Climatology</i> , 2003 , 23, 1103-1118	3.5	84

216	The Little Ice Age in Iberian mountains. <i>Earth-Science Reviews</i> , 2018 , 177, 175-208	10.2	84
215	Monitoring winter wheat drought threat in Northern China using multiple climate-based drought indices and soil moisture during 2000-2013. <i>Agricultural and Forest Meteorology</i> , 2016 , 228-229, 1-12	5.8	83
214	The impact of snow depth and snowmelt on the vegetation variability over central Siberia. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	81
213	Using landscape ecology to evaluate an alternative management scenario in abandoned Mediterranean mountain areas. <i>Landscape and Urban Planning</i> , 2006 , 78, 101-114	7.7	80
212	Challenges for drought assessment in the Mediterranean region under future climate scenarios. <i>Earth-Science Reviews</i> , 2020 , 210, 103348	10.2	79
211	Drought Variability and Land Degradation in Semiarid Regions: Assessment Using Remote Sensing Data and Drought Indices (1982-2011). <i>Remote Sensing</i> , 2015 , 7, 4391-4423	5	78
210	Aridification determines changes in forest growth in <i>Pinus halepensis</i> forests under semiarid Mediterranean climate conditions. <i>Agricultural and Forest Meteorology</i> , 2010 , 150, 614-628	5.8	78
209	Mapping the Hazard of Extreme Rainfall by Peaks over Threshold Extreme Value Analysis and Spatial Regression Techniques. <i>Journal of Applied Meteorology and Climatology</i> , 2006 , 45, 108-124	2.7	77
208	Diverse relationships between forest growth and the Normalized Difference Vegetation Index at a global scale. <i>Remote Sensing of Environment</i> , 2016 , 187, 14-29	13.2	77
207	Early prediction of crop production using drought indices at different time-scales and remote sensing data: application in the Ebro Valley (north-east Spain). <i>International Journal of Remote Sensing</i> , 2006 , 27, 511-518	3.1	75
206	Sensitivity of reference evapotranspiration to changes in meteorological parameters in Spain (1961-2011). <i>Water Resources Research</i> , 2014 , 50, 8458-8480	5.4	73
205	Trend and variability of surface air temperature in northeastern Spain (1920-2006): Linkage to atmospheric circulation. <i>Atmospheric Research</i> , 2012 , 106, 159-180	5.4	68
204	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	3.3	66
203	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	7.5	66
202	Trends in drought intensity and variability in the middle Ebro valley (NE of the Iberian peninsula) during the second half of the twentieth century. <i>Theoretical and Applied Climatology</i> , 2007 , 88, 247-258	3	66
201	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	5.5	65
200	Global Assessment of the Standardized Evapotranspiration Deficit Index (SEDI) for Drought Analysis and Monitoring. <i>Journal of Climate</i> , 2018 , 31, 5371-5393	4.4	64
199	Effects of warming processes on droughts and water resources in the NW Iberian Peninsula (1930-2006). <i>Climate Research</i> , 2011 , 48, 203-212	1.6	62

198	Recent trends in daily temperature extremes over northeastern Spain (1960–2006). <i>Natural Hazards and Earth System Sciences</i> , 2011 , 11, 2583-2603	3.9	61
197	Temporal evolution of surface humidity in Spain: recent trends and possible physical mechanisms. <i>Climate Dynamics</i> , 2014 , 42, 2655-2674	4.2	60
196	Climatic impacts and drought control of radial growth and seasonal wood formation in <i>Pinus halepensis</i> . <i>Trees - Structure and Function</i> , 2012 , 26, 1875-1886	2.6	60
195	Trends of daily peak wind gusts in Spain and Portugal, 1961–2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1059-1078	4.4	59
194	North Atlantic oscillation control of droughts in north-east Spain: evaluation since 1600 a.d.. <i>Climatic Change</i> , 2007 , 85, 357-379	4.5	59
193	River regimes and recent hydrological changes in the Duero basin (Spain). <i>Journal of Hydrology</i> , 2011 , 404, 241-258	6	58
192	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,		58
191	The complex influence of ENSO on droughts in Ecuador. <i>Climate Dynamics</i> , 2017 , 48, 405-427	4.2	57
190	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	5.5	56
189	Trends in downward surface solar radiation from satellites and ground observations over Europe during 1983–2010. <i>Remote Sensing of Environment</i> , 2017 , 189, 108-117	13.2	55
188	Comment on "Candidate distributions for climatological drought indices (SPI and SPEI)" by James H. Stagge et al.. <i>International Journal of Climatology</i> , 2016 , 36, 2120-2131	3.5	55
187	Unraveling the influence of atmospheric evaporative demand on drought and its response to climate change. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2020 , 11, e632	8.4	54
186	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	5.8	53
185	Recent glacier retreat and climate trends in Cordillera Huaytapallana, Peru. <i>Global and Planetary Change</i> , 2014 , 112, 1-11	4.2	53
184	SMOS-derived soil moisture anomalies and drought indices: a comparative analysis using in situ measurements. <i>Hydrological Processes</i> , 2015 , 29, 373-383	3.3	53
183	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,	5.4	53
182	Aridity influence on vegetation patterns in the middle Ebro Valley (Spain): Evaluation by means of AVHRR images and climate interpolation techniques. <i>Journal of Arid Environments</i> , 2006 , 66, 353-375	2.5	52
181	Climate trends and variability in Ecuador (1966–2011). <i>International Journal of Climatology</i> , 2016 , 36, 3839-3855	3.5	52

180	Response of crop yield to different time-scales of drought in the United States: Spatio-temporal patterns and climatic and environmental drivers. <i>Agricultural and Forest Meteorology</i> , 2019 , 264, 40-55	5.8	52
179	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	2.5	51
178	Three millennia of heavy rainfalls in Western Mediterranean: frequency, seasonality and atmospheric drivers. <i>Scientific Reports</i> , 2016 , 6, 38206	4.9	51
177	The European 2016/17 Drought. <i>Journal of Climate</i> , 2019 , 32, 3169-3187	4.4	50
176	Complex land cover change processes in semiarid Mediterranean regions: An approach using Landsat images in northeast Spain. <i>Remote Sensing of Environment</i> , 2012 , 124, 1-14	13.2	49
175	El Niño and La Niña influence on droughts at different timescales in the Iberian Peninsula. <i>Water Resources Research</i> , 2005 , 41,	5.4	48
174	The response of Iberian rivers to the North Atlantic Oscillation. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 2581-2597	5.5	47
173	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	3.5	45
172	Atmospheric circulation influence on the interannual variability of snow pack in the Spanish Pyrenees during the second half of the 20th century 2007 , 38, 33-44		44
171	Bias in the variance of gridded data sets leads to misleading conclusions about changes in climate variability. <i>International Journal of Climatology</i> , 2016 , 36, 3413-3422	3.5	44
170	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	4.2	43
169	Atmospheric evaporative demand observations, estimates and driving factors in Spain (1961-2011). <i>Journal of Hydrology</i> , 2015 , 523, 262-277	6	42
168	NAO influence on NDVI trends in the Iberian peninsula (1982-2000). <i>International Journal of Remote Sensing</i> , 2004 , 25, 2871-2879	3.1	41
167	Spatial variability in large-scale and regional atmospheric drivers of <i>Pinus halepensis</i> growth in eastern Spain. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1106-1119	5.8	40
166	Thinning of the Monte Perdido Glacier in the Spanish Pyrenees since 1981. <i>Cryosphere</i> , 2016 , 10, 681-694	5.5	39
165	Complex influences of meteorological drought time-scales on hydrological droughts in natural basins of the contiguous United States. <i>Journal of Hydrology</i> , 2019 , 568, 611-625	6	39
164	The impact of drought on the productivity of two rainfed crops in Spain. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 1215-1234	3.9	38
163	Effects of climate change on the intensity and frequency of heavy snowfall events in the Pyrenees. <i>Climatic Change</i> , 2011 , 105, 489-508	4.5	38

162	Los efectos geocoolgicos del cambio global en el Pirineo Central espaol: una revisi3n a distintas escalas espaciales y temporales. <i>Pirineos</i> , 2015 , 170, e012	1	38
161	Recent changes of relative humidity: regional connections with land and ocean processes. <i>Earth System Dynamics</i> , 2018 , 9, 915-937	4.8	38
160	Spatio-temporal variability of droughts in Bolivia: 1955-2012. <i>International Journal of Climatology</i> , 2015 , 35, 3024-3040	3.5	36
159	Accuracy of reference evapotranspiration (ET _o) estimates under data scarcity scenarios in the Iberian Peninsula. <i>Agricultural Water Management</i> , 2017 , 182, 103-116	5.9	35
158	The NAO Impact on Droughts in the Mediterranean Region. <i>Advances in Global Change Research</i> , 2011 , 23-40	1.2	34
157	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,	4.9	34
156	Fewer clouds in the Mediterranean: consistency of observations and climate simulations. <i>Scientific Reports</i> , 2017 , 7, 41475	4.9	33
155	A Lagrangian perspective of the hydrological cycle in the Congo River basin. <i>Earth System Dynamics</i> , 2017 , 8, 653-675	4.8	33
154	Analysis of the atmospheric circulation pattern effects over SPEI drought index in Spain. <i>Atmospheric Research</i> , 2019 , 230, 104630	5.4	33
153	A pan-African high-resolution drought index dataset. <i>Earth System Science Data</i> , 2020 , 12, 753-769	10.5	33
152	Drought Sensitiveness on Forest Growth in Peninsular Spain and the Balearic Islands. <i>Forests</i> , 2018 , 9, 524	2.8	33
151	Recent trends in wind speed across Saudi Arabia, 1978-2013: a break in the stilling. <i>International Journal of Climatology</i> , 2018 , 38, e966-e984	3.5	32
150	Mapping soil moisture in the central Ebro river valley (northeast Spain) with Landsat and NOAA satellite imagery: a comparison with meteorological data. <i>International Journal of Remote Sensing</i> , 2004 , 25, 4325-4350	3.1	32
149	High-resolution spatio-temporal analyses of drought episodes in the western Mediterranean basin (Spanish mainland, Iberian Peninsula). <i>Acta Geophysica</i> , 2018 , 66, 381-392	2.2	31
148	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	2.2	31
147	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	3.5	31
146	Temperature trends in Libya over the second half of the 20th century. <i>Theoretical and Applied Climatology</i> , 2009 , 98, 1-8	3	31
145	Effect of reservoirs on streamflow and river regimes in a heavily regulated river basin of Northeast Spain. <i>Catena</i> , 2017 , 149, 727-741	5.8	30

144	Snowpack variability across various spatio-temporal resolutions. <i>Hydrological Processes</i> , 2015 , 29, 1213-1224	3.3	30
143	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	3.3	30
142	Canopy influence on snow depth distribution in a pine stand determined from terrestrial laser data. <i>Water Resources Research</i> , 2015 , 51, 3476-3489	5.4	29
141	Factors driving growth responses to drought in Mediterranean forests. <i>European Journal of Forest Research</i> , 2012 , 131, 1797-1807	2.7	29
140	Standardized metrics are key for assessing drought severity. <i>Global Change Biology</i> , 2020 , 26, e1-e3	11.4	29
139	The impact of drought spells on forests depends on site conditions: The case of 2017 summer heat wave in southern Europe. <i>Global Change Biology</i> , 2020 , 26, 851-863	11.4	29
138	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	3.6	28
137	Climate, Irrigation, and Land Cover Change Explain Streamflow Trends in Countries Bordering the Northeast Atlantic. <i>Geophysical Research Letters</i> , 2019 , 46, 10821-10833	4.9	28
136	Evaluating anemometer drift: A statistical approach to correct biases in wind speed measurement. <i>Atmospheric Research</i> , 2018 , 203, 175-188	5.4	27
135	Drought legacies are short, prevail in dry conifer forests and depend on growth variability. <i>Journal of Ecology</i> , 2020 , 108, 2473-2484	6	27
134	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	4.2	26
133	Trends in LST over the peninsular Spain as derived from the AVHRR imagery data. <i>Global and Planetary Change</i> , 2018 , 166, 75-93	4.2	26
132	Drought and Water Crises		26
131	Priority questions in multidisciplinary drought research. <i>Climate Research</i> , 2018 , 75, 241-260	1.6	26
130	Increased evapotranspiration demand in a Mediterranean climate might cause a decline in fungal yields under global warming. <i>Global Change Biology</i> , 2015 , 21, 3499-510	11.4	25
129	Phenological shifts in climatic response of secondary growth allow <i>Juniperus sabina</i> L. to cope with altitudinal and temporal climate variability. <i>Agricultural and Forest Meteorology</i> , 2016 , 217, 35-45	5.8	24
128	<i>Pinus halepensis</i> regeneration after a wildfire in a semiarid environment: assessment using multitemporal Landsat images. <i>International Journal of Wildland Fire</i> , 2011 , 20, 195	3.2	24
127	Foreword: Drought complexity and assessment under climate change conditions. <i>Cuadernos De Investigacion Geografica</i> , 2016 , 42, 7	2.5	24

126	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	3.5	23
125	Drought episodes in the climatological sinks of the Mediterranean moisture source: The role of moisture transport. <i>Global and Planetary Change</i> , 2017 , 151, 4-14	4.2	23
124	Long-term variability and trends in meteorological droughts in Western Europe (1851-2018). <i>International Journal of Climatology</i> , 2021 , 41, E690	3.5	23
123	Daily temperature extremes over Egypt: Spatial patterns, temporal trends, and driving forces. <i>Atmospheric Research</i> , 2019 , 226, 219-239	5.4	22
122	Recent temperature variability and change in the Altiplano of Bolivia and Peru. <i>International Journal of Climatology</i> , 2016 , 36, 1773-1796	3.5	22
121	Power spectral characteristics of drought indices in the Ebro river basin at different temporal scales. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1155-1170	3.5	22
120	Exploring Relationships among Tree-Ring Growth, Climate Variability, and Seasonal Leaf Activity on Varying Timescales and Spatial Resolutions. <i>Remote Sensing</i> , 2017 , 9, 526	5	22
119	Changes in the frequency and severity of hydrological droughts over Ethiopia from 1960 to 2013. <i>Cuadernos De Investigacion Geografica</i> , 2016 , 42, 145	2.5	22
118	Effectiveness of drought indices in identifying impacts on major crops across the USA. <i>Climate Research</i> , 2018 , 75, 221-240	1.6	22
117	Sea breeze thunderstorms in the eastern Iberian Peninsula. Neighborhood verification of HIRLAM and HARMONIE precipitation forecasts. <i>Atmospheric Research</i> , 2014 , 139, 101-115	5.4	21
116	Estimation of near-surface air temperature lapse rates over continental Spain and its mountain areas. <i>International Journal of Climatology</i> , 2018 , 38, 3233-3249	3.5	21
115	Post-drought Resilience After Forest Die-Off: Shifts in Regeneration, Composition, Growth and Productivity. <i>Frontiers in Plant Science</i> , 2018 , 9, 1546	6.2	21
114	Evidence of non-stationary relationships between climate and forest responses: Increased sensitivity to climate change in Iberian forests. <i>Global Change Biology</i> , 2020 , 26, 5063-5076	11.4	20
113	Large-Scale Atmospheric Circulation Driving Extreme Climate Events in the Mediterranean and its Related Impacts 2012 , 347-417		20
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