

Sergio M M Vicente-Serrano

List of Publications by Year in Descending Order

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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.

269
papers

18,724
citations

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 | The uncertain role of rising atmospheric CO ₂ on global plant transpiration. <i>Earth-Science Reviews</i> , 2022 , 104055 | 10.2 | 1 |
| 268 | The Rise of Atmospheric Evaporative Demand Is Increasing Flash Droughts in Spain During the Warm Season. <i>Geophysical Research Letters</i> , 2022 , 49, | 4.9 | 2 |
| 267 | The Potential Role of Climate Indices to Explain Floods, Mass-Movement Events and Wildfires in Southern Italy. <i>Climate</i> , 2021 , 9, 156 | 3.1 | 1 |
| 266 | Gap-Filling of NDVI Satellite Data Using Tucker Decomposition: Exploiting Spatio-Temporal Patterns. <i>Remote Sensing</i> , 2021 , 13, 4007 | 5 | |
| 265 | Tree growth is more limited by drought in rear-edge forests most of the times. <i>Forest Ecosystems</i> , 2021 , 8, | 3.8 | 7 |
| 264 | The complex multi-sectoral impacts of drought: Evidence from a mountainous basin in the Central Spanish Pyrenees. <i>Science of the Total Environment</i> , 2021 , 769, 144702 | 10.2 | 3 |
| 263 | The potential of using climate indices as powerful tools to explain mortality anomalies: An application to mainland Spain. <i>Environmental Research</i> , 2021 , 197, 111203 | 7.9 | 0 |
| 262 | 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 |
| 261 | Climatology and trends of reference evapotranspiration in Spain. <i>International Journal of Climatology</i> , 2021 , 41, E1860 | 3.5 | 10 |
| 260 | Flash Drought Response to Precipitation and Atmospheric Evaporative Demand in Spain. <i>Atmosphere</i> , 2021 , 12, 165 | 2.7 | 11 |
| 259 | Increased Vegetation in Mountainous Headwaters Amplifies Water Stress During Dry Periods. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094672 | 4.9 | 5 |
| 258 | 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 | 9.3 | 14 |
| 257 | Unravelling the role of vegetation on the different trends between climatic and hydrologic drought in headwater catchments of Spain. <i>Anthropocene</i> , 2021 , 36, 100309 | 3.9 | 4 |
| 256 | Nocturnal Surface Urban Heat Island over Greater Cairo: Spatial Morphology, Temporal Trends and Links to Land-Atmosphere Influences. <i>Remote Sensing</i> , 2020 , 12, 3889 | 5 | 6 |
| 255 | 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 |
| 254 | Characteristics and trends of flash droughts in Spain, 1961-2018. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1472, 155-172 | 6.5 | 12 |
| 253 | ECTACI: European Climatology and Trend Atlas of Climate Indices (1979–2017). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032798 | 4.4 | 4 |

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| 252 | Droughts 2020 , 219-255 | | 2 |
| 251 | Variability and trends of black truffle production in Spain (1970-2017): Linkages to climate, host growth, and human factors. <i>Agricultural and Forest Meteorology</i> , 2020 , 287, 107951 | 5.8 | 9 |
| 250 | Evidence for intensification of meteorological droughts in Oman over the past four decades. <i>Atmospheric Research</i> , 2020 , 246, 105126 | 5.4 | 12 |
| 249 | Drought Impacts on Vegetation in Southeastern Europe. <i>Remote Sensing</i> , 2020 , 12, 2156 | 5 | 4 |
| 248 | Maximum and minimum air temperature lapse rates in the Andean region of Ecuador and Peru. <i>International Journal of Climatology</i> , 2020 , 40, 6150-6168 | 3.5 | 2 |
| 247 | 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 |
| 246 | A pan-African high-resolution drought index dataset. <i>Earth System Science Data</i> , 2020 , 12, 753-769 | 10.5 | 33 |
| 245 | Long-term precipitation in Southwestern Europe reveals no clear trend attributable to anthropogenic forcing. <i>Environmental Research Letters</i> , 2020 , 15, 094070 | 6.2 | 19 |
| 244 | Standardized metrics are key for assessing drought severity. <i>Global Change Biology</i> , 2020 , 26, e1-e3 | 11.4 | 29 |
| 243 | 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 |
| 242 | Global characterization of hydrological and meteorological droughts under future climate change: The importance of timescales, vegetation-CO2 feedbacks and changes to distribution functions. <i>International Journal of Climatology</i> , 2020 , 40, 2557-2567 | 3.5 | 19 |
| 241 | A weekly spatio-temporal distribution of drought events over the Po Plain (North Italy) in the last five decades. <i>International Journal of Climatology</i> , 2020 , 40, 4463-4476 | 3.5 | 9 |
| 240 | 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 |
| 239 | Challenges for drought assessment in the Mediterranean region under future climate scenarios. <i>Earth-Science Reviews</i> , 2020 , 210, 103348 | 10.2 | 79 |
| 238 | A multidecadal assessment of climate indices over Europe. <i>Scientific Data</i> , 2020 , 7, 125 | 8.2 | 6 |
| 237 | Critical discussion of: "A farewell to glaciers: Ecosystem services loss in the Spanish Pyrenees". <i>Journal of Environmental Management</i> , 2020 , 275, 111247 | 7.9 | 1 |
| 236 | Recent trends in atmospheric evaporative demand in Southwest Iran: implications for change in drought severity. <i>Theoretical and Applied Climatology</i> , 2020 , 142, 945-958 | 3 | 2 |
| 235 | Global Characterization of the Varying Responses of the Standardized Precipitation Evapotranspiration Index to Atmospheric Evaporative Demand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033017 | 4.4 | 14 |

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| 234 | Relationship of Forest Cover Fragmentation and Drought with the Occurrence of Forest Fires in the Department of Santa Cruz, Bolivia. <i>Forests</i> , 2020 , 11, 910 | 2.8 | 6 |
| 233 | A review of environmental droughts: Increased risk under global warming?. <i>Earth-Science Reviews</i> , 2020 , 201, 102953 | 10.2 | 102 |
| 232 | Linking tree-ring growth and satellite-derived gross primary growth in multiple forest biomes. Temporal-scale matters. <i>Ecological Indicators</i> , 2020 , 108, 105753 | 5.8 | 14 |
| 231 | Vegetation greening in Spain detected from long term data (1981-2015). <i>International Journal of Remote Sensing</i> , 2020 , 41, 1709-1740 | 3.1 | 11 |
| 230 | Characterizing the impact of climatic and price anomalies on agrosystems in the northwest United States. <i>Agricultural and Forest Meteorology</i> , 2020 , 280, 107778 | 5.8 | 13 |
| 229 | A Global Probabilistic Dataset for Monitoring Meteorological Droughts. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1628-E1644 | 6.1 | 4 |
| 228 | Gap Filling of Monthly Temperature Data and Its Effect on Climatic Variability and Trends. <i>Journal of Climate</i> , 2019 , 32, 7797-7821 | 4.4 | 16 |
| 227 | A high-resolution spatial assessment of the impacts of drought variability on vegetation activity in Spain from 1981 to 2015. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 1189-1213 | 3.9 | 15 |
| 226 | High-spatial-resolution probability maps of drought duration and magnitude across Spain. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 611-628 | 3.9 | 8 |
| 225 | Daily temperature extremes over Egypt: Spatial patterns, temporal trends, and driving forces. <i>Atmospheric Research</i> , 2019 , 226, 219-239 | 5.4 | 22 |
| 224 | High spatial resolution climatology of drought events for Spain: 1961-2014. <i>International Journal of Climatology</i> , 2019 , 39, 5046-5062 | 3.5 | 19 |
| 223 | The European 2016/17 Drought. <i>Journal of Climate</i> , 2019 , 32, 3169-3187 | 4.4 | 50 |
| 222 | Linking Anomalous Moisture Transport And Drought Episodes in the IPCC Reference Regions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1481-1498 | 6.1 | 19 |
| 221 | Twelve Years of Daily Weather Descriptions in North America in the Eighteenth Century (Mexico City, 1775-86). <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1531-1547 | 6.1 | 4 |
| 220 | Impact of the dry-day definition on Mediterranean extreme dry-spell analysis. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 1629-1638 | 3.9 | 11 |
| 219 | Analysis of the atmospheric circulation pattern effects over SPEI drought index in Spain. <i>Atmospheric Research</i> , 2019 , 230, 104630 | 5.4 | 33 |
| 218 | 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 |
| 217 | 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 |

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|-----|--|------|-----|
| 216 | Reference crop evapotranspiration database in Spain (1961–2014). <i>Earth System Science Data</i> , 2019 , 11, 1917-1930 | 10.5 | 13 |
| 215 | 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 |
| 214 | Spatial assessment of the performance of multiple high-resolution satellite-based precipitation data sets over the Middle East. <i>International Journal of Climatology</i> , 2019 , 39, 2522-2543 | 3.5 | 6 |
| 213 | 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 |
| 212 | Air and wet bulb temperature lapse rates and their impact on snowmaking in a Pyrenean ski resort. <i>Theoretical and Applied Climatology</i> , 2019 , 135, 1361-1373 | 3 | 1 |
| 211 | Forest resilience to drought varies across biomes. <i>Global Change Biology</i> , 2018 , 24, 2143-2158 | 11.4 | 150 |
| 210 | 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 |
| 209 | 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 |
| 208 | Evaluating anemometer drift: A statistical approach to correct biases in wind speed measurement. <i>Atmospheric Research</i> , 2018 , 203, 175-188 | 5.4 | 27 |
| 207 | Optimal Interpolation scheme to generate reference crop evapotranspiration. <i>Journal of Hydrology</i> , 2018 , 560, 202-219 | 6 | 10 |
| 206 | A Lagrangian analysis of the moisture budget over the Fertile Crescent during two intense drought episodes. <i>Journal of Hydrology</i> , 2018 , 560, 382-395 | 6 | 17 |
| 205 | Recent changes in monthly surface air temperature over Peru, 1964–2014. <i>International Journal of Climatology</i> , 2018 , 38, 283-306 | 3.5 | 18 |
| 204 | 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 | 3.5 | 15 |
| 203 | Wet and dry extremes in Quito (Ecuador) since the 17th century. <i>International Journal of Climatology</i> , 2018 , 38, 2006-2014 | 3.5 | 18 |
| 202 | Wind speed variability over the Canary Islands, 1948–2014: focusing on trend differences at the land–ocean interface and below/above the trade-wind inversion layer. <i>Climate Dynamics</i> , 2018 , 50, 4061-4081 | 4.2 | 16 |
| 201 | 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 |
| 200 | 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 |
| 199 | Average annual and seasonal Land Surface Temperature, Spanish Peninsular. <i>Journal of Maps</i> , 2018 , 14, 465-475 | 2.2 | 7 |

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| 198 | Priority questions in multidisciplinary drought research. <i>Climate Research</i> , 2018 , 75, 241-260 | 1.6 | 26 |
| 197 | Effectiveness of drought indices in identifying impacts on major crops across the USA. <i>Climate Research</i> , 2018 , 75, 221-240 | 1.6 | 22 |
| 196 | The Little Ice Age in Iberian mountains. <i>Earth-Science Reviews</i> , 2018 , 177, 175-208 | 10.2 | 84 |
| 195 | Mapping seasonal and annual extreme precipitation over the Peruvian Andes. <i>International Journal of Climatology</i> , 2018 , 38, 5459-5475 | 3.5 | 5 |
| 194 | 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 |
| 193 | The Influence of Climate and Land-Cover Scenarios on Dam Management Strategies in a High Water Pressure Catchment in Northeast Spain. <i>Water (Switzerland)</i> , 2018 , 10, 1668 | 3 | 7 |
| 192 | Recent changes of relative humidity: regional connections with land and ocean processes. <i>Earth System Dynamics</i> , 2018 , 9, 915-937 | 4.8 | 38 |
| 191 | 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 |
| 190 | Drought Sensitiveness on Forest Growth in Peninsular Spain and the Balearic Islands. <i>Forests</i> , 2018 , 9, 524 | 2.8 | 33 |
| 189 | New documentary evidence of the Tungurahua eruption on April 23, 1773, Ecuador. <i>Natural Hazards</i> , 2018 , 94, 1463-1473 | 3 | |
| 188 | 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 |
| 187 | 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 |
| 186 | The complex influence of ENSO on droughts in Ecuador. <i>Climate Dynamics</i> , 2017 , 48, 405-427 | 4.2 | 57 |
| 185 | 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 |
| 184 | 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 |
| 183 | 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 |
| 182 | Fewer clouds in the Mediterranean: consistency of observations and climate simulations. <i>Scientific Reports</i> , 2017 , 7, 41475 | 4.9 | 33 |
| 181 | Revisiting precipitation variability, trends and drivers in the Canary Islands. <i>International Journal of Climatology</i> , 2017 , 37, 3565-3576 | 3.5 | 9 |

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| 180 | 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 |
| 179 | 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 |
| 178 | The atmospheric branch of the hydrological cycle over the Indus, Ganges, and Brahmaputra river basins. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 6379-6399 | 5.5 | 8 |
| 177 | A Lagrangian perspective of the hydrological cycle in the Congo River basin. <i>Earth System Dynamics</i> , 2017 , 8, 653-675 | 4.8 | 33 |
| 176 | Impacts of droughts on the growth resilience of Northern Hemisphere forests. <i>Global Ecology and Biogeography</i> , 2017 , 26, 166-176 | 6.1 | 138 |
| 175 | Hydrological and depositional processes associated with recent glacier recession in Yanamarey catchment, Cordillera Blanca (Peru). <i>Science of the Total Environment</i> , 2017 , 579, 272-282 | 10.2 | 11 |
| 174 | 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 |
| 173 | A High Resolution Dataset of Drought Indices for Spain. <i>Data</i> , 2017 , 2, 22 | 2.3 | 87 |
| 172 | Drought Severity in a Changing Climate 2017 , 279-303 | | 4 |
| 171 | Drought Planning and Management in the Iberian Peninsula 2017 , 481-506 | | 1 |
| 170 | An updated review on recent trends in observational surface atmospheric variables and their extremes over Spain. <i>Cuadernos De Investigacion Geografica</i> , 2017 , 43, 209 | 2.5 | 19 |
| 169 | Recent changes in continentality and aridity conditions over the Middle East and North Africa region, and their association with circulation patterns. <i>Climate Research</i> , 2016 , 69, 25-43 | 1.6 | 18 |
| 168 | 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 |
| 167 | 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 |
| 166 | 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 |
| 165 | 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 |
| 164 | Average monthly and annual climate maps for Bolivia. <i>Journal of Maps</i> , 2016 , 12, 295-310 | 2.2 | 9 |
| 163 | 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 |

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| 162 | Variabilidad espacio-temporal de las sequías en la cuenca Pacífico Norte de México (1961-2010). <i>Cuadernos De Investigacion Geografica</i> , 2016 , 42, 185 | 2.5 | 5 |
| 161 | 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 |
| 160 | Foreword: Drought complexity and assessment under climate change conditions. <i>Cuadernos De Investigacion Geografica</i> , 2016 , 42, 7 | 2.5 | 24 |
| 159 | A Lagrangian analysis of the present-day sources of moisture for major ice-core sites. <i>Earth System Dynamics</i> , 2016 , 7, 549-558 | 4.8 | 11 |
| 158 | Recent changes and drivers of the atmospheric evaporative demand in the Canary Islands. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 3393-3410 | 5.5 | 6 |
| 157 | Thinning of the Monte Perdido Glacier in the Spanish Pyrenees since 1981. <i>Cryosphere</i> , 2016 , 10, 681-694 | 5.5 | 39 |
| 156 | Climate trends and variability in Ecuador (1966-2011). <i>International Journal of Climatology</i> , 2016 , 36, 3839-3855 | 3.5 | 52 |
| 155 | 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 |
| 154 | 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 |
| 153 | Three millennia of heavy rainfalls in Western Mediterranean: frequency, seasonality and atmospheric drivers. <i>Scientific Reports</i> , 2016 , 6, 38206 | 4.9 | 51 |
| 152 | Long-term monitoring reveals a highly structured interspecific variability in climatic control of sporocarp production. <i>Agricultural and Forest Meteorology</i> , 2016 , 223, 39-47 | 5.8 | 14 |
| 151 | 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 |
| 150 | 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 |
| 149 | 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 |
| 148 | Contribution of precipitation and reference evapotranspiration to drought indices under different climates. <i>Journal of Hydrology</i> , 2015 , 526, 42-54 | 6 | 169 |
| 147 | Snowpack variability across various spatio-temporal resolutions. <i>Hydrological Processes</i> , 2015 , 29, 1213-1224 | 3.34 | 30 |
| 146 | Spatio-temporal variability of droughts in Bolivia: 1955-2012. <i>International Journal of Climatology</i> , 2015 , 35, 3024-3040 | 3.5 | 36 |
| 145 | High Resolution HIRLAM Simulations of the Role of Low-Level Sea-Breeze Convergence in Initiating Deep Moist Convection in the Eastern Iberian Peninsula. <i>Boundary-Layer Meteorology</i> , 2015 , 154, 81-100 | 3.4 | 7 |

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| 144 | 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 |
| 143 | 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 |
| 142 | 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 |
| 141 | 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 |
| 140 | AVHRR warm-season cloud climatologies under various synoptic regimes across the Iberian Peninsula and the Balearic Islands. <i>International Journal of Climatology</i> , 2015 , 35, 1984-2002 | 3.5 | 4 |
| 139 | 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 |
| 138 | Influence of different factors on relative air humidity in Zaragoza, Spain. <i>Frontiers in Earth Science</i> , 2015 , 3, | 3.5 | 13 |
| 137 | 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 |
| 136 | Daily temperature changes and variability in ENSEMBLES regional models predictions: Evaluation and intercomparison for the Ebro Valley (NE Iberia). <i>Atmospheric Research</i> , 2015 , 155, 141-157 | 5.4 | 7 |
| 135 | Atmospheric evaporative demand observations, estimates and driving factors in Spain (1961-2011). <i>Journal of Hydrology</i> , 2015 , 523, 262-277 | 6 | 42 |
| 134 | Los efectos geoecológicos del cambio global en el Pirineo Central español: una revisión a distintas escalas espaciales y temporales. <i>Pirineos</i> , 2015 , 170, e012 | 1 | 38 |
| 133 | Recent glacier retreat and climate trends in Cordillera Huaytapallana, Peru. <i>Global and Planetary Change</i> , 2014 , 112, 1-11 | 4.2 | 53 |
| 132 | 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 |
| 131 | Reference evapotranspiration variability and trends in Spain, 1961-2011. <i>Global and Planetary Change</i> , 2014 , 121, 26-40 | 4.2 | 89 |
| 130 | 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 |
| 129 | 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 |
| 128 | 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 |
| 127 | Observed trends and future projections for winter warm events in the Ebro basin, northeast Iberian Peninsula. <i>International Journal of Climatology</i> , 2014 , 34, 49-60 | 3.5 | 8 |

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|-----|---|-----|-----|
| 126 | 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 |
| 125 | Evidence of increasing drought severity caused by temperature rise in southern Europe. <i>Environmental Research Letters</i> , 2014 , 9, 044001 | 6.2 | 376 |
| 124 | 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 |
| 123 | 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 |
| 122 | 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 |
| 121 | Temporal evolution of surface humidity in Spain: recent trends and possible physical mechanisms. <i>Climate Dynamics</i> , 2014 , 42, 2655-2674 | 4.2 | 60 |
| 120 | Evaporation trends in Spain: a comparison of Class A pan and Piche atmometer measurements. <i>Climate Research</i> , 2014 , 61, 277-288 | 1.6 | 6 |
| 119 | Respuesta hidrológica del Pirineo central al cambio ambiental proyectado para el siglo XXI. <i>Pirineos</i> , 2014 , 169, e004 | 1 | 8 |
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