# Juan de la Riva

List of Publications by Year
in descending order

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|---|---|---|---|
| 69 papers | 2,723 citations | 201385 27 h-index | 182168 51 g-index |
| 73 all docs | 73 docs citations | 73 times ranked | 2820 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Development of a framework for fire risk assessment using remote sensing and geographic information system technologies. Ecological Modelling, 2010, 221, 46-58. | 1.2 | 392 |
| 2 | Combining NDVI and surface temperature for the estimation of live fuel moisture content in forest fire danger rating. Remote Sensing of Environment, 2004, 92, 322-331. | 4.6 | 266 |
| 3 | An insight into machine-learning algorithms to model human-caused wildfire occurrence. Environmental Modelling and Software, 2014, 57, 192-201. | 1.9 | 170 |
| 4 | Modeling the spatial variation of the explanatory factors of human-caused wildfires in Spain using geographically weightedÂlogistic regression. Applied Geography, 2014, 48, 52-63. | 1.7 | 155 |
| 5 | Integrating geospatial information into fire risk assessment. International Journal of Wildland Fire, 2014, 23, 606. | 1.0 | 134 |
| 6 | Mapping lightning/human-caused wildfires occurrence under ignition point location uncertainty. Ecological Modelling, 2007, 200, 321-333. | 1.2 | 107 |
| 7 | Assessment of Methods for Land Surface Temperature Retrieval from Landsat-5 TM Images Applicable to Multiscale Tree-Grass Ecosystem Modeling. Remote Sensing, 2014, 6, 4345-4368. | 1.8 | 88 |
| 8 | Sensitivity of X-, C-, and L-Band SAR Backscatter to Burn Severity in Mediterranean Pine Forests. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3663-3675. | 2.7 | 86 |
| 9 | A Comparison of Open-Source LiDAR Filtering Algorithms in a Mediterranean Forest Environment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4072-4085. | 2.3 | 82 |
| 10 | Sensitivity of SAR data to post-fire forest regrowth in Mediterranean and boreal forests. Remote Sensing of Environment, 2011, 115, 2075-2085. | 4.6 | 77 |
| 11 | Doline probability map using logistic regression and GIS technology in the central Ebro Basin (Spain). Environmental Geology, 2008, 54, 963-977. | 1.2 | 71 |
| 12 | Remote-sensing and tree-ring based characterization of forest defoliation and growth loss due to the Mediterranean pine processionary moth. Forest Ecology and Management, 2014, 320, 171-181. | 1.4 | 67 |
| 13 | Analysis of recent spatialâ€“temporal evolution of human driving factors of wildfires in Spain. Natural Hazards, 2016, 84, 2049-2070. | 1.6 | 64 |
| 14 | Properties of X-, C- and L-band repeat-pass interferometric SAR coherence in Mediterranean pine forests affected by fires. Remote Sensing of Environment, 2010, 114, 2182-2194. | 4.6 | 62 |
| 15 | Interpolation Routines Assessment in ALS-Derived Digital Elevation Models for Forestry Applications. Remote Sensing, 2015, 7, 8631-8654. | 1.8 | 61 |
| 16 | A comprehensive spatial-temporal analysis of driving factors of human-caused wildfires in Spain using Geographically Weighted Logistic Regression. Journal of Environmental Management, 2018, 225, 177-192. | 3.8 | 61 |
| 17 | Mapping wildfire occurrence at regional scale. Remote Sensing of Environment, 2004, 92, 363-369. | 4.6 | 49 |
| 18 | Forest Fire Severity Assessment Using ALS Data in a Mediterranean Environment. Remote Sensing, 2014, 6, 4240-4265. | 1.8 | 46 |

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|---|---|---|---|
| 19 | Estimating burn severity at the regional level using optically based indices. Canadian Journal of Forest Research, 2011, 41, 863-872. | 0.8 | 42 |
| 20 | Modelling the Ecological Vulnerability to Forest Fires in Mediterranean Ecosystems Using Geographic Information Technologies. Environmental Management, 2012, 50, 1012-1026. | 1.2 | 39 |
| 21 | Micro-scale post-fire surface cover changes monitored using high spatial resolution photography in a semiarid environment: A useful tool in the study of post-fire soil erosion processes. Journal of Arid Environments, 2012, 76, 88-96. | 1.2 | 39 |
| 22 | Polarimetric Properties of Burned Forest Areas at C- and L-Band. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 267-276. | 2.3 | 39 |
| 23 | Use of low point density ALS data to estimate stand-level structural variables in Mediterranean Aleppo pine forest. Forestry, 2016, 89, 373-382. | 1.2 | 34 |
| 24 | Exploring spatialâ€“temporal dynamics of fire regime features in mainland Spain. Natural Hazards and Earth System Sciences, 2017, 17, 1697-1711. | 1.5 | 34 |
| 25 | Fire regime dynamics in mainland Spain. Part 1: Drivers of change. Science of the Total Environment, 2020, 721, 135841. | 3.9 | 31 |
| 26 | TerraSAR-X Data for Burn Severity Evaluation in Mediterranean Forests on Sloped Terrain. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 917-929. | 2.7 | 30 |
| 27 | Estimation of Total Biomass in Aleppo Pine Forest Stands Applying Parametric and Nonparametric Methods to Low-Density Airborne Laser Scanning Data. Forests, 2018, 9, 158. | 0.9 | 28 |
| 28 | Fuel Type Classification Using Airborne Laser Scanning and Sentinel 2 Data in Mediterranean Forest Affected by Wildfires. Remote Sensing, 2020, 12, 3660. | 1.8 | 27 |
| 29 | Mapping wildfire occurrence at regional scale. Remote Sensing of Environment, 2004, 92, 288-294. | 4.6 | 25 |
| 30 | Understanding wildfires in mainland Spain. A comprehensive analysis of fire regime features in a climate-human context. Applied Geography, 2017, 89, 100-111. | 1.7 | 24 |
| 31 | Mapping erosion-sensitive areas after wildfires using fieldwork, remote sensing, and geographic information systems techniques on a regional scale. Journal of Geophysical Research, 2006, 111, . | 3.3 | 20 |
| 32 | Postâ€fire land degradation of Pinus sylvestris L. woodlands after 14 years. Land Degradation and Development, 2010, 21, 145-160. | 1.8 | 20 |
| 33 | LandTrendr smoothed spectral profiles enhance woody encroachment monitoring. Remote Sensing of Environment, 2021, 262, 112521. | 4.6 | 20 |
| 34 | Temporal Transferability of Pine Forest Attributes Modeling Using Low-Density Airborne Laser Scanning Data. Remote Sensing, 2019, 11, 261. | 1.8 | 19 |
| 35 | The role of short-term weather conditions in temporal dynamics of fire regime features in mainland Spain. Journal of Environmental Management, 2019, 241, 575-586. | 3.8 | 19 |
| 36 | Suitability analysis for sand and gravel extraction site location in the context of a sustainable development in the surroundings of Zaragoza (Spain). Environmental Geology, 2008, 55, 1673-1686. | 1.2 | 16 |

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|---|---|---|---|
| 37 | Modelling environmental variables for geohazards and georesources assessment to support sustainable land-use decisions in Zaragoza (Spain). Geomorphology, 2009, 111, 88-103. | 1.1 | 16 |
| 38 | A method for regional-scale assessment of vegetation recovery time after high-severity wildfires. Progress in Physical Geography, 2014, 38, 556-575. | 1.4 | 16 |
| 39 | Comparison of regression models to estimate biomass losses and CO2 emissions using low-density airborne laser scanning data in a burnt Aleppo pine forest. European Journal of Remote Sensing, 2017, 50, 384-396. | 1.7 | 16 |
| 40 | AERIAL MAPPING AND MULTI-SENSORS APPROACHES FROM REMOTE SENSING APPLIED TO THE ROMAN ARCHAEOLOGICAL HERITAGE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 461-467. | 0.2 | 14 |
| 41 | Estimation of Crown Biomass of Pinus spp. From Landsat TM and Its Effect on Burn Severity in a Spanish Fire Scar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2008, 1, 254-265. | 2.3 | 13 |
| 42 | Fire regime dynamics in mainland Spain. Part 2: A near-future prospective of fire activity. Science of the Total Environment, 2020, 705, 135842. | 3.9 | 13 |
| 43 | A model to evaluate the ecological vulnerability to forest fires in Mediterranean ecosystems. Forest Ecology and Management, 2006, 234, S203. | 1.4 | 10 |
| 44 | Using low-density discrete Airborne Laser Scanning data to assess the potential carbon dioxide emission in case of a fire event in a Mediterranean pine forest. GIScience and Remote Sensing, 2017, 54, 721-740. | 2.4 | 8 |
| 45 | Quantifying forest residual biomass in Pinus halepensis Miller stands using Airborne Laser Scanning data. GIScience and Remote Sensing, 2019, 56, 1210-1232. | 2.4 | 8 |
| 46 | Assessing the Potential of the DART Model to Discrete Return LiDAR Simulationâ€"Application to Fuel Type Mapping. Remote Sensing, 2021, 13, 342. | 1.8 | 8 |
| 47 | Effects of Fire on Vegetation, Soil and Hydrogeomorphological Behavior in Mediterranean Ecosystems. , 2009, , 111-128. | | 8 |
| 48 | Groundwater vulnerability map for the Ebro alluvial aquifer between JalÃ³n and Ginel tributaries (Spain). Environmental Geology, 2007, 53, 861-878. | 1.2 | 7 |
| 49 | Linking deforestation patterns to soil types: A multifractal approach. European Journal of Soil Science, 2021, 72, 635-655. | 1.8 | 7 |
| 50 | Role of biotic factors and droughts in the forest decline: contributions from dendroecology. Ecosistemas, 2015, 24, 15-23. | 0.2 | 6 |
| 51 | Using Remote Sensing to Estimate a Renewable Resource: Forest Residual Biomass. , 0, , . | | 5 |
| 52 | Assessing the effect on fire risk modeling of the uncertainty in the location and cause of forest fires. , 0, , 1061-1072. | | 4 |
| 53 | Combined Methodology Based on Field Spectrometry and Digital Photography for Estimating Fire Severity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2008, 1, 266-274. | 2.3 | 3 |
| 54 | Comparison of Multicriteria Analysis Techniques for Environmental Decision Making on Industrial Location. , 2012, , . | | 3 |

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|---|---|---|---|
| 55 | El empleo de imÃ¡genes Landsat TM para la detecciÃ³n y cartografÃa de Ã¡reas incendiadas en el Prepirineo occidental oscense. Geographicalia, 2017, , 131. | 0.1 | 3 |
| 56 | EstimaciÃ³n de la severidad en incendios forestales a partir de datos LiDAR-PNOA y valores de Composite Burn Index. Revista De Teledeteccion, 2017, , 1. | 0.6 | 3 |
| 57 | Backscatter properties of multitemporal TerraSAR-X data and the effects of influencing factors on burn severity evaluation, in a mediterranean pine forest. , 2009, , . | | 2 |
| 58 | Apuntes sobre los efectos de los incendios forestales y restauraciÃ³n ambiental de Ã¡rea quemadas. Estado de la cuestiÃ³n y principios generales. Geographicalia, 2014, , 295. | 0.1 | 2 |
| 59 | Impacto de los incendios forestales en comunidades vegetales sub-mediterrÃ¡neas : evaluaciÃ³n multitemporal de la diversidad del paisaje utilizando imÃ¡genes Landsat TM. Cuadernos De Investigacion Geografica, 2007, 33, 101. | 0.6 | 1 |
| 60 | EstimaciÃ³n del potencial energÃ©tico de los pinares de la provincia de Teruel mediante teledetecciÃ³n. Geographicalia, 2014, , 109. | 0.1 | 1 |
| 61 | AportaciÃ³n al anÃ¡lisis de las repercusiones ambientales de la GestiÃ³n de la ConfederaciÃ³n HidrogrÃ¡fica del Ebro. Geographicalia, 2016, , 75. | 0.1 | 1 |
| 62 | Estimating Forest Residual Biomass in Mediterranean Pinus Halepensis Forest Using Low Point Density ALS Data. , 2018, , . | | 0 |
| 63 | Estudio de los procesos de regeneraciÃ³n vegetal postincendio en parcelas experimentales mediante radiometrÃa de campo. Cuadernos De Investigacion Geografica, 2007, 33, 59. | 0.6 | 0 |
| 64 | Factores ambientales que controlan la producciÃ³n de escorrentÃa y sedimento en el matorral semiÃ¡rido del sector central de la depresiÃ³n del Ebro (bajo valle del GÃ¡llego, Zaragoza). El papel de la pedregosidad, la vegetaciÃ³n y el suelo. Geographicalia, 2015, , 85. | 0.1 | 0 |
| 65 | Assessment of Biomass and Carbon Content in a Mediterranean Aleppo Pine Forest Using ALS Data. , 0, , . | | 0 |
| 66 | ZonificaciÃ³n paisajÃstica para la planificaciÃ³n territorial: el caso de las directrices del Bajo AragÃ³n. Geographicalia, 2016, , 3. | 0.1 | 0 |
| 67 | Ciudad y medio ambiente. Geographicalia, 2017, , 113. | 0.1 | 0 |
| 68 | La polÃtica forestal de la C.E.E.. Geographicalia, 2017, , 161. | 0.1 | 0 |
| 69 | Algunas precisiones sobre la incidencia de la polÃtica de concentraciÃ³n parcelaria en AragÃ³n. Geographicalia, 2017, , 233. | 0.1 | 0 |