

# Sergio Martos-Rosillo

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

478  
citations

687363

13  
h-index

713466

21  
g-index

33  
all docs

33  
docs citations

33  
times ranked

656  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Combined microgravity, electrical resistivity tomography and induced polarization to detect deeply buried caves: Algaidilla cave (Southern Spain). <i>Engineering Geology</i> , 2013, 162, 67-78.   | 6.3 | 55        |
| 2  | Combination of lumped hydrological and remote-sensing models to evaluate water resources in a semi-arid high altitude ungauged watershed of Sierra Nevada (Southern Spain). <i>Science of the Total Environment</i> , 2018, 625, 285-300.   | 8.0 | 41        |
| 3  | Groundwater discharge in high-mountain watersheds: A valuable resource for downstream semi-arid zones. The case of the B archules River in Sierra Nevada (Southern Spain). <i>Science of the Total Environment</i> , 2017, 593-594, 760-772.  | 8.0 | 32        |
| 4  | The oldest managed aquifer recharge system in Europe: New insights from the Espino recharge channel (Sierra Nevada, southern Spain). <i>Journal of Hydrology</i> , 2019, 578, 124047.   | 5.4 | 30        |
| 5  | Vertical variation in the amplitude of the seasonal isotopic content of rainfall as a tool to jointly estimate the groundwater recharge zone and transit times in the Ordesa and Monte Perdido National Park aquifer system, north-eastern Spain. <i>Science of the Total Environment</i> , 2016, 573, 505-517. | 8.0 | 27        |
| 6  | Concurrent temporal stability of the apparent electrical conductivity and soil water content. <i>Journal of Hydrology</i> , 2017, 544, 319-326.   | 5.4 | 23        |
| 7  | Groundwater recharge in semi-arid carbonate aquifers under intensive use: the Estepa Range aquifers (Seville, southern Spain). <i>Environmental Earth Sciences</i> , 2013, 70, 2453-2468.   | 2.7 | 22        |
| 8  | Curved fold and thrust accretion during the extrusion of a synorogenic viscous allochthonous sheet: The Estepa Range (External Zones, Western Betic Cordillera, Spain). <i>Tectonics</i> , 2012, 31, .  | 2.8 | 20        |
| 9  | Hydrochemical changes due to intensive use of groundwater in the carbonate aquifers of Sierra de Estepa (Seville, Southern Spain). <i>Journal of Hydrology</i> , 2015, 528, 249-263.  | 5.4 | 16        |
| 10 | Epikarst mapping by remote sensing. <i>Catena</i> , 2018, 165, 1-11.  | 5.0 | 16        |
| 11 | Multi-temporal InSAR evidence of ground subsidence induced by groundwater withdrawal: the Montellano aquifer (SW Spain). <i>Environmental Earth Sciences</i> , 2016, 75, 1.   | 2.7 | 15        |
| 12 | Contribution of isotopic research techniques to characterize high-mountain-Mediterranean karst aquifers: The Port del Comte (Eastern Pyrenees) aquifer. <i>Science of the Total Environment</i> , 2019, 656, 209-230.   | 8.0 | 14        |
| 13 | Analysis of groundwater mining in two carbonate aquifers in Sierra de Estepa (SE Spain) based on hydrodynamic and hydrochemical data. <i>Hydrogeology Journal</i> , 2009, 17, 1617-1627.  | 2.1 | 13        |
| 14 | The Social Sustainable Aquifer Yield: An Indicator for the Analysis and Assessment of the Integrated Aquifers Management. <i>Water Resources Management</i> , 2012, 26, 2951-2971.  | 3.9 | 13        |
| 15 | Changes in water level, land use, and hydrological budget in a semi-permanent playa lake, Southwest Spain. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 797-810.   | 2.7 | 13        |
| 16 | Correlation of the seasonal isotopic amplitude of precipitation with annual evaporation and altitude in alpine regions. <i>Science of the Total Environment</i> , 2016, 550, 27-37.   | 8.0 | 13        |
| 17 | SAR interferometry monitoring of subsidence in a detritic basin related to water depletion in the underlying confined carbonate aquifer (Torremolinos, southern Spain). <i>Science of the Total Environment</i> , 2018, 636, 670-687.   | 8.0 | 13        |
| 18 | Karst massif susceptibility from rock matrix, fracture and conduit porosities: a case study of the Sierra de las Nieves (M laga, Spain). <i>Environmental Earth Sciences</i> , 2015, 74, 7583-7592.   | 2.7 | 12        |

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|----|---|-----|-----------|
| 19 | Unravelling aquifer-wetland interaction using CSAMT and gravity methods: the Mollina-Camorra aquifer and the Fuente de Piedra playa -lake, southern Spain. <i>Journal of Applied Geophysics</i> , 2016, 129, 17-27.               | 2.1 | 12        |
| 20 | Methodology to evaluate the renewal period of carbonate aquifers: a key tool for their management in arid and semiarid regions, with the example of Becerrero aquifer, Spain. <i>Hydrogeology Journal</i> , 2014, 22, 679-689.    | 2.1 | 11        |
| 21 | Comparison of Recharge Estimation Methods During a Wet Period in a Karst Aquifer. <i>Ground Water</i> , 2015, 53, 885-895.  | 1.3 | 11        |
| 22 | Hydrogeological behaviour of the Fuente-de-Piedra playa lake and tectonic origin of its basin (Malaga,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>   | 5.4 | 9         |
| 23 | Structural controls on karstic conduits in a collisional orogen (Sierra de las Nieves, Betic) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i>  | 2.6 | 8         |
| 24 | Hydrogeological research on intensively exploited deep aquifers in the "Loma de Añbeda" area (Ja n,) <i>Tj ETQq0 0 0 rgBT /Overlock</i>   | 2.1 | 7         |
| 25 | Monitoring continuous subsidence in the Costa del Sol (M laga province, southern Spanish coast) using ERS-1/2, Envisat, and Sentinel-1A/B SAR interferometry. <i>Procedia Computer Science</i> , 2018, 138, 354-361.              | 2.0 | 7         |
| 26 | Ratosa playa lake in southern Spain. Karst pan or compound sink?. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 175.  | 2.7 | 6         |
| 27 | Factors determining subsidence in urbanized floodplains: evidence from MT nSAR in Seville (southern) <i>Tj ETQq1 1 0.784314 rgBT /O</i>   | 2.5 | 6         |
| 28 | The Ecohydrological Approach in Water Sowing and Harvesting Systems: The Case of the Paltas Catacocha Ecohydrology Demonstration Site, Ecuador. <i>Ecohydrology and Hydrobiology</i> , 2021, 21, 454-466.                         | 2.3 | 5         |
| 29 | SlugIn 1.0: A Free Tool for Automated Slug Test Analysis. <i>Ground Water</i> , 2018, 56, 362-365.  | 1.3 | 3         |
| 30 | Constraints on the evolution of sulfuric acid speleogenesis within carbonate rocks partially covered by evaporites (Sierra de Mollina, southern Spain). <i>Geomorphology</i> , 2021, 390, 107866.                                 | 2.6 | 3         |
| 31 | Use of canopy coefficients obtained from satellite data to estimate evapotranspiration over high mountain Mediterranean watersheds. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 380, 23-28. | 1.0 | 2         |
| 32 | MONITORING CRITICAL INFRASTRUCTURE EXPOSED TO ANTHROPOGENIC AND NATURAL HAZARDS USING SATELLITE RADAR INTERFEROMETRY. , 0, , .  |     | 0         |