

# Carolina Guardiola-Albert

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

669  
citations

623734

14  
h-index

610901

24  
g-index

58  
all docs

58  
docs citations

58  
times ranked

876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Building inexpensive topsoil saturated hydraulic conductivity maps for land planning based on machine learning and geostatistics. <i>Catena</i> , 2022, 208, 105788.	5.0	2
2	Spatiotemporal Geostatistical Analysis of Groundwater Level in Aquifer Systems of Complex Hydrogeology. <i>Water Resources Research</i> , 2022, 58, .	4.2	11
3	Stakeholdersâ€™ Perspective on Groundwater Management in Four Water-Stressed Mediterranean Areas: Priorities and Challenges. <i>Land</i> , 2022, 11, 738.	2.9	5
4	Climate Influence Vs. Local Drivers in Surface Water-Groundwater Interactions in Eight Ponds of DoÃ±ana National Park (Southern Spain). <i>Wetlands</i> , 2021, 41, 1.	1.5	12
5	Modeling historical subsidence due to groundwater withdrawal in the Alto GuadalentÃn aquifer-system (Spain). <i>Engineering Geology</i> , 2021, 283, 105998.	6.3	8
6	Selecting Suitable MODFLOW Packages to Model Pondâ€™Groundwater Relations Using a Regional Model. <i>Water (Switzerland)</i> , 2021, 13, 1111.	2.7	6
7	The Manningâ€™s Roughness Coefficient Calibration Method to Improve Flood Hazard Analysis in the Absence of River Bathymetric Data: Application to the Urban Historical Zamora City Centre in Spain. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9267.	2.5	9
8	Improving multi-technique monitoring using Sentinel-1 and Cosmo-SkyMed data and upgrading groundwater model capabilities. <i>Science of the Total Environment</i> , 2020, 703, 134757.	8.0	21
9	Analysing flash flood risk perception through a geostatistical approach in the village of Navalunga, Central Spain. <i>Journal of Flood Risk Management</i> , 2020, 13, e12590.	3.3	12
10	Estimating extremely large amounts of missing precipitation data. <i>Journal of Hydroinformatics</i> , 2020, 22, 578-592.	2.4	24
11	Relevance of spatio-temporal rainfall variability regarding groundwater management challenges under global change: case study in DoÃ±ana (SW Spain). <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1289-1311.	4.0	11
12	3D groundwater flow and deformation modelling of Madrid aquifer. <i>Journal of Hydrology</i> , 2020, 585, 124773.	5.4	14
13	Clustering Groundwater Level Time Series of the Exploited Almonte-Marismas Aquifer in Southwest Spain. <i>Water (Switzerland)</i> , 2020, 12, 1063.	2.7	30
14	Towards flexible groundwater-level prediction for adaptive water management: using Facebookâ€™s Prophet forecasting approach. <i>Hydrological Sciences Journal</i> , 2019, 64, 1504-1518.	2.6	34
15	Unraveling the Hydrological Behavior of a Coastal Pond in DoÃ±ana National Park (Southwest Spain). <i>Ground Water</i> , 2019, 57, 895-906.	1.3	11
16	Applying 3D Geostatistical Simulation to Improve the Groundwater Management Modelling of Sedimentary Aquifers: The Case of DoÃ±ana (Southwest Spain). <i>Water (Switzerland)</i> , 2019, 11, 39.	2.7	11
17	Determining groundwater recharge and vapor flow in dune sediments using a weighable precision meteo lysimeter. <i>Science of the Total Environment</i> , 2019, 656, 550-557.	8.0	21
18	SlugIn 1.0: A Free Tool for Automated Slug Test Analysis. <i>Ground Water</i> , 2018, 56, 362-365.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Automated convective and stratiform precipitation estimation in a small mountainous catchment using X-band radar data in Central Spain. <i>Journal of Hydroinformatics</i> , 2017, 19, 315-330.	2.4	1
20	Mapping groundwater level and aquifer storage variations from InSAR measurements in the Madrid aquifer, Central Spain. <i>Journal of Hydrology</i> , 2017, 547, 678-689.	5.4	67
21	Groundwater and Subsidence Modeling Combining Geological and Multi-Satellite SAR Data over the Alto Guadalentán Aquifer (SE Spain). <i>Geofluids</i> , 2017, 2017, 1-17.	0.7	23
22	Métodos geoestadísticos para la elaboración de mapas de probabilidad de riesgo hidrogeológico (HGT) por altas concentraciones de As en las aguas subterráneas. Aplicación a la distribución de HGT en la provincia de Ávila (España). <i>Ingeniería Del Agua</i> , 2017, 21, 71.	0.4	0
23	Flood Damage Analysis: First Floor Elevation Uncertainty Resulting from LiDAR-Derived Digital Surface Models. <i>Remote Sensing</i> , 2016, 8, 604.	4.0	26
24	Interpolation of GPS and Geological Data Using InSAR Deformation Maps: Method and Application to Land Subsidence in the Alto Guadalentán Aquifer (SE Spain). <i>Remote Sensing</i> , 2016, 8, 965.	4.0	42
25	How to Improve Dendrogeomorphic Sampling: Variogram Analyses of Wood Density Using X-Ray Computed Tomography. <i>Tree-Ring Research</i> , 2015, 71, 25-36.	0.6	7
26	Karst massif susceptibility from rock matrix, fracture and conduit porosities: a case study of the Sierra de las Nieves (Málaga, Spain). <i>Environmental Earth Sciences</i> , 2015, 74, 7583-7592.	2.7	12
27	Structural controls on karstic conduits in a collisional orogen (Sierra de las Nieves, Betic) <i>Tectonophysics</i> , 2015, 618, 10-26.	2.6	10
28	XRCT images and variograms reveal 3D changes in wood density of riparian trees affected by floods. <i>Trees - Structure and Function</i> , 2015, 29, 1115-1126.	1.9	11
29	Twenty-year advanced DInSAR analysis of severe land subsidence: The Alto Guadalentán Basin (Spain) case study. <i>Engineering Geology</i> , 2015, 198, 40-52.	6.3	67
30	Comparison of Recharge Estimation Methods During a Wet Period in a Karst Aquifer. <i>Ground Water</i> , 2015, 53, 885-895.	1.3	11
31	Integral Porosity Estimation of the Sierra de Las Nieves Karst Aquifer (Málaga, Spain). <i>Journal of Hydrology</i> , 2015, 529, 277-283.		1
32	Subsidence activity maps derived from DInSAR data: Orihuela case study. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1341-1360.	3.6	43
33	Estimation of spatio-temporal recharge of aquifers in mountainous karst terrains: Application to Sierra de las Nieves (Spain). <i>Journal of Hydrology</i> , 2012, 470-471, 124-137.	5.4	19
34	Compositional Bayesian indicator estimation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 835-849.	4.0	6
35	Potential Impacts of Climate Change on Groundwater Supplies to the Doñana Wetland, Spain. <i>Wetlands</i> , 2011, 31, 907-920.	1.5	52
36	Automatic Modeling of Cross-Covariances for Rainfall Estimation Using Rain gauge and Radar Data. <i>Journal of Hydrology</i> , 2004, 291, 391-399.		3

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37	Incorporating Information from a Digital Elevation Model for Improving the Areal Estimation of Rainfall. <i>Quantitative Geology and Geostatistics</i> , 2001, , 67-78.	0.1	9
38	Evaluation of the potential of InSAR time series to study the spatio-temporal evolution of piezometric levels in the Madrid aquifer. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 372, 29-32.	1.0	1
39	Application of multi-sensor advanced DInSAR analysis to severe land subsidence recognition: Alto Guadalent�n Basin (Spain). <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 372, 45-48.	1.0	2
40	Wavelet analysis of land subsidence time-series: Madrid Tertiary aquifer case study. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 353-359.	1.0	7
41	Understanding the dynamic behaviour for the Madrid aquifer (Spain): insights from the integration of A-DInSAR and 3-D groundwater flow and geomechanical models. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 409-414.	1.0	2