Carolina Guardiola-Albert

List of Publications by Year
in descending order

41	669	623734 14	610901 24
papers	citations	h-index	g-index

58	58	58	876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twenty-year advanced DInSAR analysis of severe land subsidence: The Alto GuadalentÃn Basin (Spain) case study. Engineering Geology, 2015, 198, 40-52.	6.3	67
2	Mapping groundwater level and aquifer storage variations from InSAR measurements in the Madrid aquifer, Central Spain. Journal of Hydrology, 2017, 547, 678-689.	5.4	67
3	Potential Impacts of Climate Change on Groundwater Supplies to the DoÃ±ana Wetland, Spain. Wetlands, 2011, 31, 907-920.	1.5	52
4	Subsidence activity maps derived from DInSAR data: Orihuela case study. Natural Hazards and Earth System Sciences, 2014, 14, 1341-1360.	3.6	43
5	Interpolation of GPS and Geological Data Using InSAR Deformation Maps: Method and Application to Land Subsidence in the Alto GuadalentÃn Aquifer (SE Spain). Remote Sensing, 2016, 8, 965.	4.0	42
6	Towards flexible groundwater-level prediction for adaptive water management: using Facebookâ€™s Prophet forecasting approach. Hydrological Sciences Journal, 2019, 64, 1504-1518.	2.6	34
7	Clustering Groundwater Level Time Series of the Exploited Almonte-Marismas Aquifer in Southwest Spain. Water (Switzerland), 2020, 12, 1063.	2.7	30
8	Flood Damage Analysis: First Floor Elevation Uncertainty Resulting from LiDAR-Derived Digital Surface Models. Remote Sensing, 2016, 8, 604.	4.0	26
9	Estimating extremely large amounts of missing precipitation data. Journal of Hydroinformatics, 2020, 22, 578-592.	2.4	24
10	Groundwater and Subsidence Modeling Combining Geological and Multi-Satellite SAR Data over the Alto GuadalentÃn Aquifer (SE Spain). Geofluids, 2017, 2017, 1-17.	0.7	23
11	Determining groundwater recharge and vapor flow in dune sediments using a weighable precision meteo lysimeter. Science of the Total Environment, 2019, 656, 550-557.	8.0	21
12	Improving multi-technique monitoring using Sentinel-1 and Cosmo-SkyMed data and upgrading groundwater model capabilities. Science of the Total Environment, 2020, 703, 134757.	8.0	21
13	Estimation of spatio-temporal recharge of aquifers in mountainous karst terrains: Application to Sierra de las Nieves (Spain). Journal of Hydrology, 2012, 470-471, 124-137.	5.4	19
14	3D groundwater flow and deformation modelling of Madrid aquifer. Journal of Hydrology, 2020, 585, 124773.	5.4	14
15	Karst massif susceptibility from rock matrix, fracture and conduit porosities: a case study of the Sierra de las Nieves (MÃ¡laga, Spain). Environmental Earth Sciences, 2015, 74, 7583-7592.	2.7	12
16	Analysing flash flood risk perception through a geostatistical approach in the village of Navaluenga, Central Spain. Journal of Flood Risk Management, 2020, 13, e12590.	3.3	12
17	Climate Influence Vs. Local Drivers in Surface Water-Groundwater Interactions in Eight Ponds of DoÃ±ana National Park (Southern Spain). Wetlands, 2021, 41, 1.	1.5	12
18	XRCT images and variograms reveal 3D changes in wood density of riparian trees affected by floods. Trees - Structure and Function, 2015, 29, 1115-1126.	1.9	11

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19	Comparison of Recharge Estimation Methods During a Wet Period in a Karst Aquifer. Ground Water, 2015, 53, 885-895.	1.3	11
20	Unraveling the Hydrological Behavior of a Coastal Pond in DoÃ±ana National Park (Southwest Spain). Ground Water, 2019, 57, 895-906.	1.3	11
21	Applying 3D Geostatistical Simulation to Improve the Groundwater Management Modelling of Sedimentary Aquifers: The Case of DoÃ±ana (Southwest Spain). Water (Switzerland), 2019, 11, 39.	2.7	11
22	Relevance of spatio-temporal rainfall variability regarding groundwater management challenges under global change: case study in DoÃ±ana (SW Spain). Stochastic Environmental Research and Risk Assessment, 2020, 34, 1289-1311.	4.0	11
23	Spatiotemporal Geostatistical Analysis of Groundwater Level in Aquifer Systems of Complex Hydrogeology. Water Resources Research, 2022, 58, .	4.2	11
24	Incorporating Information from a Digital Elevation Model for Improving the Areal Estimation of Rainfall. Quantitative Geology and Geostatistics, 2001, , 67-78.	0.1	9
25	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. Applied Sciences (Switzerland), 2021, 11, 9267.	2.5	9
26	Structural controls on karstic conduits in a collisional orogen (Sierra de las Nieves, Betic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (	2.6	8
27	Modeling historical subsidence due to groundwater withdrawal in the Alto GuadalentÃn aquifer-system (Spain). Engineering Geology, 2021, 283, 105998.	6.3	8
28	How to Improve Dendrogeomorphic Sampling: Variogram Analyses of Wood Density Using X-Ray Computed Tomography. Tree-Ring Research, 2015, 71, 25-36.	0.6	7
29	Wavelet analysis of land subsidence time-series: Madrid Tertiary aquifer case study. Proceedings of the International Association of Hydrological Sciences, 0, 382, 353-359.	1.0	7
30	Compositional Bayesian indicator estimation. Stochastic Environmental Research and Risk Assessment, 2011, 25, 835-849.	4.0	6
31	Selecting Suitable MODFLOW Packages to Model Pondâ€"Groundwater Relations Using a Regional Model. Water (Switzerland), 2021, 13, 1111.	2.7	6
32	Stakeholdersâ€™ Perspective on Groundwater Management in Four Water-Stressed Mediterranean Areas: Priorities and Challenges. Land, 2022, 11, 738.	2.9	5
33	SlugIn 1.0: A Free Tool for Automated Slug Test Analysis. Ground Water, 2018, 56, 362-365.	1.3	3
34	Automatic Modeling of Cross-Covariances for Rainfal Estimation Using Raingage and Radar Data. , 2004, , 391-399.		3
35	Application of multi-sensor advanced DInSAR analysis to severe land subsidence recognition: Alto GuadalentÃn Basin (Spain). Proceedings of the International Association of Hydrological Sciences, 0, 372, 45-48.	1.0	2
36	Understanding the dynamic behaviour for the Madrid aquifer (Spain): insights from the integration of A-DInSAR and 3-D groundwater flow and geomechanical models. Proceedings of the International Association of Hydrological Sciences, 0, 382, 409-414.	1.0	2

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37	Building inexpensive topsoil saturated hydraulic conductivity maps for land planning based on machine learning and geostatistics. Catena, 2022, 208, 105788.	5.0	2
38	Automated convective and stratiform precipitation estimation in a small mountainous catchment using X-band radar data in Central Spain. Journal of Hydroinformatics, 2017, 19, 315-330.	2.4	1
39	Integral Porosity Estimation of the Sierra de Las Nieves Karst Aquifer (MÃ¡laga, Spain). , 2015, , 277-283.		1
40	Evaluation of the potential of InSAR time series to study the spatio-temporal evolution of piezometric levels in the Madrid aquifer. Proceedings of the International Association of Hydrological Sciences, 0, 372, 29-32.	1.0	1
41	MÃ©todos geoestadÃsticos para la elaboraciÃ³n de mapas de probabilidad de riesgo hidrogeotÃ³xico (HGT) por altas concentraciones de As en las aguas subterrÃ¡neas. AplicaciÃ³n a la distribuciÃ³n de HGT en la provincia de Ãvila (EspaÃ±a). IngenierÃa Del Agua, 2017, 21, 71.	0.4	0