

Bartolomeo Andreo

List of Publications by Year in descending order

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97
papers

2,822
citations

147566

31
h-index

189595

50
g-index

101
all docs

101
docs citations

101
times ranked

2552
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposed method for groundwater vulnerability mapping in carbonate (karstic) aquifers: the COP method. <i>Hydrogeology Journal</i> , 2006, 14, 912-925.	0.9	205
2	Methodology for groundwater recharge assessment in carbonate aquifers: application to pilot sites in southern Spain. <i>Hydrogeology Journal</i> , 2008, 16, 911-925.	0.9	142
3	Karst groundwater protection: First application of a Pan-European Approach to vulnerability, hazard and risk mapping in the Sierra de LÁbar (Southern Spain). <i>Science of the Total Environment</i> , 2006, 357, 54-73.	3.9	138
4	Factors controlling groundwater salinization and hydrogeochemical processes in coastal aquifers from southern Spain. <i>Science of the Total Environment</i> , 2017, 580, 50-68.	3.9	118
5	Relative importance of the saturated and the unsaturated zones in the hydrogeological functioning of karst aquifers: The case of Alta Cadena (Southern Spain). <i>Journal of Hydrology</i> , 2011, 397, 263-280.	2.3	99
6	Progress in the hydrologic simulation of time variant recharge areas of karst systems “ Exemplified at a karst spring in Southern Spain. <i>Advances in Water Resources</i> , 2013, 54, 149-160.	1.7	93
7	A comparative study of four schemes for groundwater vulnerability mapping in a diffuse flow carbonate aquifer under Mediterranean climatic conditions. <i>Environmental Geology</i> , 2005, 47, 586-595.	1.2	92
8	The aquifer pollution vulnerability concept: aid or impediment in promoting groundwater protection?. <i>Hydrogeology Journal</i> , 2013, 21, 1389-1392.	0.9	92
9	Climatic and hydrological variations during the last 117“166 years in the south of the Iberian Peninsula, from spectral and correlation analyses and continuous wavelet analyses. <i>Journal of Hydrology</i> , 2006, 324, 24-39.	2.3	87
10	Modeling spatiotemporal impacts of hydroclimatic extremes on groundwater recharge at a Mediterranean karst aquifer. <i>Water Resources Research</i> , 2014, 50, 6507-6521.	1.7	82
11	Sedimentary patterns in perched spring travertines near Granada (Spain) as indicators of the paleohydrological and paleoclimatological evolution of a karst massif. <i>Sedimentary Geology</i> , 2003, 161, 217-228.	1.0	79
12	Influence of rainfall quantity on the isotopic composition (¹⁸ O and ² H) of water in mountainous areas. Application for groundwater research in the Yunquera-Nieves karst aquifers (S Spain). <i>Applied Geochemistry</i> , 2004, 19, 561-574.	1.4	72
13	Process-based karst modelling to relate hydrodynamic and hydrochemical characteristics to system properties. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3305-3321.	1.9	70
14	Source vulnerability mapping in carbonate (karst) aquifers by extension of the COP method: application to pilot sites. <i>Hydrogeology Journal</i> , 2009, 17, 749-758.	0.9	67
15	Effective precipitation in southern Spain (¼ 266 To 46 Ka) based on a speleothem stable carbon isotope record. <i>Quaternary Research</i> , 2008, 69, 447-457.	1.0	55
16	Risk of groundwater contamination widely underestimated because of fast flow into aquifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	53
17	Groundwater temperature and electrical conductivity as tools to characterize flow patterns in carbonate aquifers: The Sierra de las Nieves karst aquifer, southern Spain. <i>Hydrogeology Journal</i> , 2009, 17, 843-853.	0.9	48
18	Assessing submarine groundwater discharge (SGD) and nitrate fluxes in highly heterogeneous coastal karst aquifers: Challenges and solutions. <i>Journal of Hydrology</i> , 2018, 557, 222-242.	2.3	48

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19	The Triassic palaeogeographic transition between the Alpujarride and Malaguide complexes. Beticâ€”Rif Internal Zone (S Spain, N Morocco). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 167, 157-173.	1.0	45
20	Combined use of natural and artificial tracers to determine the hydrogeological functioning of a karst aquifer: the Villanueva del Rosario system (Andalusia, southern Spain). <i>Hydrogeology Journal</i> , 2014, 22, 1027-1039.	0.9	45
21	Global karst springs hydrograph dataset for research and management of the worldâ€™s fastest-flowing groundwater. <i>Scientific Data</i> , 2020, 7, 59.	2.4	45
22	Characterisation of dissolved organic matter in karst spring waters using intrinsic fluorescence: Relationship with infiltration processes. <i>Science of the Total Environment</i> , 2011, 409, 3448-3462.	3.9	44
23	Reconstructing high-resolution climate using CT scanning of unsectioned stalagmites: A case study identifying the mid-Holocene onset of the Mediterranean climate in southern Iberia. <i>Quaternary Science Reviews</i> , 2015, 127, 117-128.	1.4	41
24	Use of Total Organic Carbon (TOC) as tracer of diffuse infiltration in a dolomitic karstic system: The Nerja Cave (Andalusia, southern Spain). <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	39
25	The study of hydrodynamic behaviour of a complex karst system under low-flow conditions using natural and artificial tracers (the catchment of the Unica River, SW Slovenia). <i>Environmental Earth Sciences</i> , 2012, 65, 2259-2272.	1.3	37
26	Combining Experimental Methods and Modeling to Quantify the Complex Recharge Behavior of Karst Aquifers. <i>Water Resources Research</i> , 2019, 55, 1384-1404.	1.7	37
27	Vulnerability mapping and protection zoning of karst springs. Validation by multitracer tests. <i>Science of the Total Environment</i> , 2015, 532, 435-446.	3.9	36
28	Hydrological and geochemical processes constraining groundwater salinity in wetland areas related to evaporitic (karst) systems. A case study from Southern Spain. <i>Journal of Hydrology</i> , 2017, 544, 538-554.	2.3	36
29	Mapping the vulnerability of groundwater to the contamination of four carbonate aquifers in Europe. <i>Journal of Environmental Management</i> , 2010, 91, 1500-1510.	3.8	34
30	Chemical composition of landfill leachate in a karst area with a Mediterranean climate (Marbella,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.2	32
31	Functioning of a karst aquifer from S Spain under highly variable climate conditions, deduced from hydrochemical records. <i>Environmental Earth Sciences</i> , 2012, 65, 2337-2349.	1.3	32
32	Combining hydrodynamics, hydrochemistry, and environmental isotopes to understand the hydrogeological functioning of evaporite-karst springs. An example from southern Spain. <i>Journal of Hydrology</i> , 2019, 576, 299-314.	2.3	32
33	Review on groundwater recharge in carbonate aquifers from SW Mediterranean (Betic Cordillera, S) Tj ETQq1 1 0.784314 rgBT /Overlaid	1.3	31
34	Hydrochemical dynamics of TOC and NO ₃ ⁻ contents as natural tracers of infiltration in karst aquifers. <i>Environmental Earth Sciences</i> , 2014, 71, 507-523.	1.3	30
35	Comparative application of two methods (COP and PaPRIKa) for groundwater vulnerability mapping in Mediterranean karst aquifers (France and Spain). <i>Environmental Earth Sciences</i> , 2012, 65, 2407-2421.	1.3	29
36	On the value of water quality data and informative flow states in karst modelling. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5971-5985.	1.9	28

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37	Application of geochemistry and radioactivity in the hydrogeological investigation of carbonate aquifers (Sierras Blanca and Mijas, southern Spain). <i>Applied Geochemistry</i> , 1999, 14, 283-299.	1.4	26
38	Hydrogeochemical tools applied to the study of carbonate aquifers: examples from some karst systems of Southern Spain. <i>Environmental Earth Sciences</i> , 2015, 74, 199-215.	1.3	26
39	Hydrogeological processes in a fluviokarstic area inferred from the analysis of natural hydrogeochemical tracers. The case study of eastern SerranAa de Ronda (S Spain). <i>Journal of Hydrology</i> , 2015, 523, 500-514.	2.3	25
40	Regional-scale analysis of karst underground flow deduced from tracing experiments: examples from carbonate aquifers in Malaga province, southern Spain. <i>Hydrogeology Journal</i> , 2018, 26, 23-40.	0.9	23
41	A comparative study of four vulnerability mapping methods in a detritic aquifer under mediterranean climatic conditions. <i>Environmental Geology</i> , 2008, 54, 455-463.	1.2	20
42	Hydrogeological investigation of a karst aquifer in the Ubrique area (southern Spain). <i>Hydrogeology Journal</i> , 2008, 16, 1-10.	0.9	19
43	Contribution of stable isotopes to the understanding of the unsaturated zone of a carbonate aquifer (Nerja Cave, southern Spain). <i>Comptes Rendus - Geoscience</i> , 2006, 338, 1203-1212.	0.4	17
44	Monitoring groundwater in the discharge area of a complex karst aquifer to assess the role of the saturated and unsaturated zones. <i>Environmental Earth Sciences</i> , 2012, 65, 2321-2336.	1.3	17
45	A soil moisture monitoring network to characterize karstic recharge and evapotranspiration at five representative sites across the globe. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020, 9, 11-23.	0.6	17
46	Groundwater Contamination by Landfill Leachates in a Karstic Aquifer. <i>Water, Air, and Soil Pollution</i> , 2005, 162, 143-169.	1.1	16
47	Spatial prediction of water quality variables along a main river channel, in presence of pollution hotspots. <i>Science of the Total Environment</i> , 2017, 605-606, 276-290.	3.9	16
48	Title is missing!. <i>Estudios Geologicos</i> , 1995, 51, .	0.7	16
49	Types of carbonate aquifers according to the fracturation and the karstification in a southern Spanish area. <i>Environmental Geology</i> , 1997, 30, 163-173.	1.2	15
50	Water Quality Assessment of the Santiago River and Attenuation Capacity of Pollutants Downstream Guadalajara City, Mexico. <i>River Research and Applications</i> , 2016, 32, 1505-1516.	0.7	15
51	Hypothesis on the hydrogeological context of wetland areas and springs related to evaporitic karst aquifers (MÁ;laga, CÁ³rdoba and JaÁ©n provinces, Southern Spain). <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	15
52	Use of hydrodynamic and hydrochemistry to characterise carbonate aquifers. Case study of the Blanca-Mijas unit (MÁ;laga, southern Spain). <i>Environmental Geology</i> , 2002, 43, 108-119.	1.2	14
53	Hydrogeological functioning of a karst aquifer deduced from hydrochemical components and natural organic tracers present in spring waters. The case of Yedra Spring (Southern Spain). <i>Acta Carsologica</i> , 2012, 39, .	0.3	12
54	Application of the European water framework directive in a Western Mediterranean basin (MÁ;laga,). <i>Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5</i>	0.2	11

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55	A multi-method approach for groundwater resource assessment in coastal carbonate (karst) aquifers: the case study of Sierra Almjara (southern Spain). <i>Hydrogeology Journal</i> , 2018, 26, 41-56.	0.9	11
56	Groundwater dating tools (3H, 3He, 4He, CFC-12, SF6) coupled with hydrochemistry to evaluate the hydrogeological functioning of complex evaporite-karst settings. <i>Journal of Hydrology</i> , 2020, 580, 124263.	2.3	11
57	Introductory editorial: advances in karst hydrogeology. <i>Environmental Earth Sciences</i> , 2012, 65, 2219-2220.	1.3	10
58	Using non-conservative tracers to characterise karstification processes in the Merinos-Colorado-Carrasco carbonate aquifer system (southern Spain). <i>Environmental Earth Sciences</i> , 2014, 71, 585-599.	1.3	10
59	Vulnerability to Contamination of Karst Aquifers. <i>Professional Practice in Earth Sciences</i> , 2015, , 251-266.	0.4	10
60	Improved Assessment of Groundwater Recharge in a Mediterranean Karst Region: Andalusia, Spain. <i>Advances in Karst Science</i> , 2017, , 117-125.	0.3	9
61	Hydrochemical and isotopic characterization of carbonate aquifers under natural flow conditions, Sierra Grazalema Natural Park, southern Spain. <i>Geological Society Special Publication</i> , 2018, 466, 275-293.	0.8	9
62	Investigating karst aquifers in tectonically complex alpine areas coupling geological and hydrogeological methods. <i>Journal of Hydrology X</i> , 2020, 6, 100047.	0.8	9
63	Unraveling groundwater functioning and nitrate attenuation in evaporitic karst systems from southern Spain: An isotopic approach. <i>Applied Geochemistry</i> , 2020, 123, 104820.	1.4	9
64	Comparative Analysis of Runoff and Evaporation Assessment Methods to Evaluate Wetland Groundwater Interaction in Mediterranean Evaporitic-Karst Aquatic Ecosystem. <i>Water (Switzerland)</i> , 2021, 13, 1482.	1.2	8
65	The stratigraphic and tectonic relationships of the Alpujarride and Malaguide complexes in the western Betic Cordillera (Casares, prov. of Malaga, South Spain). <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> =, 1999, 328, 113-119.	0.2	7
66	River-spring connectivity and hydrogeochemical interactions in a shallow fractured rock formation. The case study of Fuensanta river valley (Southern Spain). <i>Journal of Hydrology</i> , 2017, 547, 253-268.	2.3	7
67	Some applications of geochemical and isotopic techniques to hydrogeology of the caves after research in two sites (Nerja Cave-S Spain and Fourbanne system-French Jura). <i>International Journal of Speleology</i> , 2008, 37, 67-74.	0.4	7
68	Late Quaternary paleoenvironmental record from a sedimentary fill in Cucã Cave, Almería, SE Spain. <i>Quaternary Research</i> , 2012, 77, 264-272.	1.0	6
69	Application of Methods for Resource and Source Vulnerability Mapping in the Orehek Karst Aquifer, SW Slovenia. , 2014, , 139-150.		6
70	Time Lag Analysis of Natural Responses During Unitary Recharge Events to Assess the Functioning of Carbonate Aquifers in Sierra de Grazalema Natural Park (Southern Spain). <i>Advances in Karst Science</i> , 2017, , 157-167.	0.3	6
71	First outcomes from groundwater recharge estimation in evaporate aquifer in Greece with the use of APLIS method. , 2011, , 89-96.		6
72	Karst development of an evaporitic system and its hydrogeological implications inferred from GIS-based analysis and tracing techniques. <i>International Journal of Speleology</i> , 2017, 46, 219-235.	0.4	6

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73	Theme issue on groundwater in Mediterranean countries. <i>Environmental Geology</i> , 2008, 54, 443-444.	1.2	5
74	Proposed methodology to delineate bodies of groundwater according to the European water framework directive. Application in a pilot Mediterranean river basin (Málaga, Spain). <i>Journal of Environmental Management</i> , 2009, 90, 1523-1533.	3.8	5
75	Complementary use of dating and hydrochemical tools to assess mixing processes involving centenarian groundwater in a geologically complex alpine karst aquifer. <i>Hydrological Processes</i> , 2020, 34, 3981-3999.	1.1	5
76	Modelling the effects of climate change and population growth in four intensively exploited Mediterranean aquifers. The Mijas range, southern Spain. <i>Journal of Environmental Management</i> , 2020, 262, 110316.	3.8	5
77	Delineating protection areas for caves using contamination vulnerability mapping techniques: the case of Herrerías Cave, Asturias, Spain. <i>Journal of Cave and Karst Studies</i> , 2012, 74, 103-115.	0.3	5
78	Importance of evaluating karst features in contamination vulnerability and groundwater protection assessment of carbonate aquifers. The case study of Alta Cadena (Southern Spain). <i>Zeitschrift für Geomorphologie</i> , 2010, 54, 179-194.	0.3	4
79	Hydrochemical Heterogeneity in the Discharge Zone of a Karstic Aquifer. <i>Environmental Earth Sciences</i> , 2010, , 163-168.	0.1	4
80	Hydrogeological characterization of the Salinas-Los Hoyos evaporitic karst (Malaga province, S Spain) using topographic, hydrodynamic, hydrochemical and isotopic methods. <i>Acta Carsologica</i> , 2016, 45, .	0.3	4
81	Comment on the paper "Late exhumation stages of the Alpujarride Complex (western Betic Cordilleras), Tj ETQq1 1 0.784314 rgB Anne-Claire Morillon, Jacques Bourgois, Gilbert Féraud, Gérard Poupeau, Pierre Saint-Marc. <i>Tectonophysics</i> , 2001, 331, 413-417.	0.9	3
82	The Internal Subbetic of the Velez Rubio area (SE Spain): Is it tectonically detached or not?. <i>Journal of Geodynamics</i> , 2015, 83, 65-75.	0.7	3
83	Comparative Application of Two Methods (COP and PaPRIKa) for Groundwater Vulnerability Mapping in the Lez Karst System (Montpellier, South France). <i>Environmental Earth Sciences</i> , 2010, , 329-334.	0.1	3
84	Synthesis of Groundwater Recharge of Carbonate Aquifers in the Betic Cordillera (Southern Spain). , 2015, , 91-102.		3
85	Estructura del Complejo Alpujarride y observaciones hidrogeológicas al NO de Sierra Tejeda (provincias de Granada y Málaga, Zona Interna Bética). <i>Estudios Geológicos</i> , 2019, 75, 090.	0.7	3
86	Analysis of Natural Response and Hydrochemical Data by Statistical Approaches to Characterize the Hydrogeological Functioning of a Highly Karstified Evaporitic System in South Spain. <i>Advances in Karst Science</i> , 2017, , 335-343.	0.3	2
87	Delineating Source Protection Zones of Karst Springs. The Case Study of Villanueva del Rosario Spring (Southern Spain). <i>Environmental Earth Sciences</i> , 2010, , 317-322.	0.1	2
88	Characterization of Carbonate Aquifers (Sierra de Grazalema, S Spain) by Means of Hydrodynamic and Hydrochemical Tools. , 2015, , 171-180.		2
89	Hydrochemistry of spring water associated with travertines. Example of the Sierra de la Alfaguara (Granada, southern Spain). <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> =, 1999, 328, 745-750.	0.2	1
90	Simplified VarKarst Semi-distributed Model Applied to Joint Simulations of Discharge and Piezometric Variations in Villanueva Del Rosario Karst System (Malaga, Southern Spain). <i>Advances in Karst Science</i> , 2020, , 145-150.	0.3	1

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91	Duality of Functioning in a Karst System Under Mediterranean Climate Conditions, Deduced from Hydrochemical Characterization. Environmental Earth Sciences, 2010, , 189-194.	0.1	1
92	Title is missing!. Estudios Geologicos, 1997, 53, .	0.7	1
93	Studying hydrogeochemical processes to understand hydrodiversity and the related natural and cultural heritage. The case of Los Hoyos area (South Spain). Catena, 2022, 216, 106422.	2.2	1
94	Introductory editorial: thematic issue: progress in karst research. Environmental Earth Sciences, 2015, 74, 7555-7556.	1.3	0
95	Climate Variability During the Middle-Late Pleistocene Based on Stalagmite from Ã“rganos Cave (Sierra Tj ETQq1 1 0.784314rgBT /O	0.784314	0
96	Chemical, Thermal and Isotopic Evidences of Water Mixing in the Discharge Area of Torrox Karst Spring (Southern Spain). , 2015, , 163-169.		0
97	Characterisation of the influence of evaporite rocks on the hydrochemistry of carbonate aquifers: The Grazalema Mountain Range (Southern Spain). Hydrogeology, 2016, , 155-168.	0.1	0