

Enric Vazquez-Suñe

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

4,660
citations

101384

36
h-index

110170

64
g-index

115
all docs

115
docs citations

115
times ranked

4545
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of precipitation and recharge in the peripheral aquifer of the Salar de Atacama. <i>Science of the Total Environment</i> , 2022, 806, 150271.	3.9	8
2	Spatial distribution of meteorological factors controlling stable isotopes in precipitation in Northern Chile. <i>Journal of Hydrology</i> , 2022, 605, 127380.	2.3	15
3	A multidisciplinary approach to characterizing coastal alluvial aquifers to improve understanding of seawater intrusion and submarine groundwater discharge. <i>Journal of Hydrology</i> , 2022, 607, 127510.	2.3	19
4	An automatic geological 3D cross-section generator: Geopropy, an open-source library. <i>Environmental Modelling and Software</i> , 2022, 149, 105309.	1.9	5
5	Urban Groundwater Contamination by Non-Steroidal Anti-Inflammatory Drugs. <i>Water (Switzerland)</i> , 2021, 13, 720.	1.2	25
6	La importancia de incorporar la hidrodinámica de la interfaz salina en la gestión de los recursos minerales y ecosistemas de los salares. <i>Boletín Geológico Y Minero</i> , 2021, 132, 127-139.	0.0	0
7	D-InSAR monitoring of ground deformation related to the dewatering of construction sites. A case study of Glàries Square, Barcelona. <i>Engineering Geology</i> , 2021, 286, 106041.	2.9	12
8	Defining the exploitation patterns of groundwater heat pump systems. <i>Science of the Total Environment</i> , 2020, 710, 136425.	3.9	16
9	Towards more sustainable brine extraction in salt flats: Learning from the Salar de Atacama. <i>Science of the Total Environment</i> , 2020, 703, 135605.	3.9	32
10	An integrated approach to estimate the mixing ratios in a karst system under different hydrogeological conditions. <i>Journal of Hydrology: Regional Studies</i> , 2020, 30, 100693.	1.0	3
11	Hydrochemical apportioning of irrigation groundwater sources in an alluvial aquifer. <i>Science of the Total Environment</i> , 2020, 744, 140506.	3.9	19
12	Fate and risk assessment of sulfonamides and metabolites in urban groundwater. <i>Environmental Pollution</i> , 2020, 267, 115480.	3.7	22
13	Combining fiber optic DTS, cross-hole ERT and time-lapse induction logging to characterize and monitor a coastal aquifer. <i>Journal of Hydrology</i> , 2020, 588, 125050.	2.3	30
14	Hydrogeological constraints for the genesis of the extreme lithium enrichment in the Salar de Atacama (NE Chile): A thermohaline flow modelling approach. <i>Science of the Total Environment</i> , 2020, 739, 139959.	3.9	19
15	Identification of Aquifer Recharge Sources as the Origin of Emerging Contaminants in Intensive Agricultural Areas. La Plana de Castellón, Spain. <i>Water (Switzerland)</i> , 2020, 12, 731.	1.2	13
16	Origin and variability of oxygen and hydrogen isotopic composition of precipitation in the Central Andes: A review. <i>Journal of Hydrology</i> , 2020, 587, 124899.	2.3	29
17	The origin of solutes in groundwater in a hyper-arid environment: A chemical and multi-isotope approach in the Atacama Desert, Chile. <i>Science of the Total Environment</i> , 2019, 690, 329-351.	3.9	34
18	Impacts of the transient skin effect during brine extraction operations in a crystalline halite aquifer. <i>Journal of Hydrology</i> , 2019, 577, 123912.	2.3	2

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19	Occurrence of pathogens in the river-groundwater interface in a losing river stretch (Besòs River) Tj ETQq1 1 0.784314 rgBT /Ove	3.9	9
20	Hydrodynamics of salt flat basins: The Salar de Atacama example. <i>Science of the Total Environment</i> , 2019, 651, 668-683.	3.9	55
21	Sustainability indicator for the prevention of potential thermal interferences between groundwater heat pump systems in urban aquifers. <i>Renewable Energy</i> , 2019, 134, 14-24.	4.3	18
22	AkvaGIS: An open source tool for water quantity and quality management. <i>Computers and Geosciences</i> , 2019, 127, 123-132.	2.0	32
23	The effect of brine pumping on the natural hydrodynamics of the Salar de Atacama: The damping capacity of salt flats. <i>Science of the Total Environment</i> , 2019, 654, 1118-1131.	3.9	34
24	3D mapping, hydrodynamics and modelling of the freshwater-brine mixing zone in salt flats similar to the Salar de Atacama (Chile). <i>Journal of Hydrology</i> , 2018, 561, 223-235.	2.3	36
25	FREEWAT, a Free and Open Source, GIS-Integrated, Hydrological Modeling Platform. <i>Ground Water</i> , 2018, 56, 521-523.	0.7	19
26	Groundwater-Gossan interaction and the genesis of the secondary siderite rock at Las Cruces ore deposit (SW Spain). <i>Ore Geology Reviews</i> , 2018, 102, 967-980.	1.1	0
27	Integration of groundwater by-pass facilities in the bottom slab design for large underground structures. <i>Tunnelling and Underground Space Technology</i> , 2018, 71, 231-243.	3.0	7
28	Quantification of proportions of different water sources in a mining operation. <i>Science of the Total Environment</i> , 2018, 619-620, 587-599.	3.9	8
29	A Persistent Scatterer Interferometry Procedure Based on Stable Areas to Filter the Atmospheric Component. <i>Remote Sensing</i> , 2018, 10, 1780.	1.8	6
30	Occurrence of pharmaceuticals and personal care products in the urban aquifer of Zaragoza (Spain) and its relationship with intensive shallow geothermal energy exploitation. <i>Journal of Hydrology</i> , 2018, 566, 629-642.	2.3	31
31	Integrating free and open source tools and distributed modelling codes in GIS environment for data-based groundwater management. <i>Environmental Modelling and Software</i> , 2018, 107, 210-230.	1.9	67
32	An upscaling procedure for the optimal implementation of open-loop geothermal energy systems into hydrogeological models. <i>Journal of Hydrology</i> , 2018, 563, 155-166.	2.3	26
33	Development of concepts for the management of thermal resources in urban areas - Assessment of transferability from the Basel (Switzerland) and Zaragoza (Spain) case studies. <i>Journal of Hydrology</i> , 2017, 548, 697-715.	2.3	54
34	A loosely coupled GIS and hydrogeological modeling framework. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	10
35	The T-I-G ER method: A graphical alternative to support the design and management of shallow geothermal energy exploitations at the metropolitan scale. <i>Renewable Energy</i> , 2017, 109, 213-221.	4.3	16
36	Potential uses of pumped urban groundwater: a case study in Sant Adrià del Besòs (Spain). <i>Hydrogeology Journal</i> , 2017, 25, 1745-1758.	0.9	18

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37	Settlements around pumping wells: Analysis of influential factors and a simple calculation procedure. <i>Journal of Hydrology</i> , 2017, 548, 225-236.	2.3	53
38	Quantification of groundwater recharge in urban environments. <i>Science of the Total Environment</i> , 2017, 592, 391-402.	3.9	52
39	Leveling vs. InSAR in urban underground construction monitoring: Pros and cons. Case of la sagrera railway station (Barcelona, Spain). <i>Engineering Geology</i> , 2017, 218, 1-11.	2.9	34
40	Characterizing sources and natural attenuation of nitrate contamination in the Baix Ter aquifer system (NE Spain) using a multi-isotope approach. <i>Science of the Total Environment</i> , 2017, 580, 518-532.	3.9	85
41	Spatial analysis and simulation tools for groundwater management: the FREEWAT platform. <i>Acque Sotterranee - Italian Journal of Groundwater</i> , 2017, 6, .	0.2	0
42	A geological model for the management of subsurface data in the urban environment of Barcelona and surrounding area. <i>Solid Earth</i> , 2016, 7, 1317-1329.	1.2	23
43	3D GIS-based visualisation of geological, hydrogeological, hydrogeochemical and geothermal models. <i>Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften</i> , 2016, 167, 377-388.	0.1	8
44	Use rights markets for shallow geothermal energy management. <i>Applied Energy</i> , 2016, 172, 34-46.	5.1	26
45	Hydrogeological assessment of non-linear underground enclosures. <i>Engineering Geology</i> , 2016, 207, 91-102.	2.9	53
46	A reactive transport model for the quantification of risks induced by groundwater heat pump systems in urban aquifers. <i>Journal of Hydrology</i> , 2016, 542, 719-730.	2.3	25
47	A city scale study on the effects of intensive groundwater heat pump systems on heavy metal contents in groundwater. <i>Science of the Total Environment</i> , 2016, 572, 1047-1058.	3.9	38
48	Occurrence, fate and risk assessment of personal care products in river-groundwater interface. <i>Science of the Total Environment</i> , 2016, 568, 829-837.	3.9	59
49	Geochemical impacts of groundwater heat pump systems in an urban alluvial aquifer with evaporitic bedrock. <i>Science of the Total Environment</i> , 2016, 544, 354-368.	3.9	32
50	Gb-SAR interferometry displacement measurements during dewatering in construction works. Case of La Sagrera railway station in Barcelona, Spain. <i>Engineering Geology</i> , 2016, 205, 104-115.	2.9	25
51	Modelling of the EPB TBM shield tunnelling advance as a tool for geological characterization. <i>Tunnelling and Underground Space Technology</i> , 2016, 56, 12-21.	3.0	26
52	An integrated GIS-based tool for aquifer test analysis. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	14
53	Advection and dispersion heat transport mechanisms in the quantification of shallow geothermal resources and associated environmental impacts. <i>Science of the Total Environment</i> , 2016, 543, 536-546.	3.9	38
54	Origin of high ammonium, arsenic and boron concentrations in the proximity of a mine: Natural vs. anthropogenic processes. <i>Science of the Total Environment</i> , 2016, 541, 655-666.	3.9	31

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55	GIS-Based Software Platform for Managing Hydrogeochemical Data. Handbook of Environmental Chemistry, 2015, , 91-115.	0.2	0
56	Recovery of energetically overexploited urban aquifers using surface water. Journal of Hydrology, 2015, 531, 602-611.	2.3	22
57	GIS-supported mapping of low-temperature geothermal potential taking groundwater flow into account. Renewable Energy, 2015, 77, 268-278.	4.3	61
58	Recent and old groundwater in the Niebla-Posadas regional aquifer (southern Spain): Implications for its management. Journal of Hydrology, 2015, 523, 624-635.	2.3	16
59	Assessment of the barrier effect caused by underground constructions on porous aquifers with low hydraulic gradient: A case study of the metro construction in Barcelona, Spain. Engineering Geology, 2015, 196, 238-250.	2.9	41
60	Relaxation factor for geothermal use development – Criteria for a more fair and sustainable geothermal use of shallow energy resources. Geothermics, 2015, 56, 128-137.	1.5	38
61	The propagation of complex flood-induced head wavefronts through a heterogeneous alluvial aquifer and its applicability in groundwater flood risk management. Journal of Hydrology, 2015, 527, 402-419.	2.3	21
62	Hydrogeological impact assessment by tunnelling at sites of high sensitivity. Engineering Geology, 2015, 193, 421-434.	2.9	36
63	Quantifying chemical reactions by using mixing analysis. Science of the Total Environment, 2015, 502, 448-456.	3.9	15
64	Deep enclosures versus pumping to reduce settlements during shaft excavations. Engineering Geology, 2014, 169, 100-111.	2.9	65
65	Using EMMA and MIX analysis to assess mixing ratios and to identify hydrochemical reactions in groundwater. Science of the Total Environment, 2014, 470-471, 1120-1131.	3.9	31
66	The thermal consequences of river-level variations in an urban groundwater body highly affected by groundwater heat pumps. Science of the Total Environment, 2014, 485-486, 575-587.	3.9	60
67	Urban groundwater contamination by residues of UV filters. Journal of Hazardous Materials, 2014, 271, 141-149.	6.5	109
68	Occurrence of carbamazepine and five metabolites in an urban aquifer. Chemosphere, 2014, 115, 47-53.	4.2	44
69	Dewatering of a deep excavation undertaken in a layered soil. Engineering Geology, 2014, 178, 15-27.	2.9	98
70	GIS-based hydrogeochemical analysis tools (QUIMET). Computers and Geosciences, 2014, 70, 164-180.	2.0	19
71	The use of GIS-based 3D geological tools to improve hydrogeological models of sedimentary media in an urban environment. Environmental Earth Sciences, 2013, 68, 2145-2162.	1.3	42
72	Occurrence of 95 pharmaceuticals and transformation products in urban groundwaters underlying the metropolis of Barcelona, Spain. Environmental Pollution, 2013, 174, 305-315.	3.7	347

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73	Application of multi-isotope data (O, D, C and S) to quantify redox processes in urban groundwater. Applied Geochemistry, 2013, 34, 114-125.	1.4	36
74	Time-lapse cross-hole electrical resistivity tomography monitoring effects of an urban tunnel. Journal of Applied Geophysics, 2012, 87, 60-70.	0.9	24
75	Barrier effect of underground structures on aquifers. Engineering Geology, 2012, 145-146, 41-49.	2.9	92
76	Emerging organic contaminants in groundwater in Spain: A review of sources, recent occurrence and fate in a European context. Science of the Total Environment, 2012, 440, 82-94.	3.9	321
77	Hydraulic characterization of diaphragm walls for cut and cover tunnelling. Engineering Geology, 2012, 125, 1-10.	2.9	68
78	Influence of releases from a fresh water reservoir on the hydrochemistry of the Tinto River (SW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	3.9	28
79	Drugs of abuse in urban groundwater. A case study: Barcelona. Science of the Total Environment, 2012, 424, 280-288.	3.9	66
80	Analytical study of hydraulic and mechanical effects on tide-induced head fluctuation in a coastal aquifer system that extends under the sea. Journal of Hydrology, 2012, 450-451, 150-158.	2.3	20
81	Groundwater inflow prediction in urban tunneling with a tunnel boring machine (TBM). Engineering Geology, 2011, 121, 46-54.	2.9	62
82	Quantitative comparison of impeller-flowmeter and particle-size-distribution techniques for the characterization of hydraulic conductivity variability. Hydrogeology Journal, 2011, 19, 603-612.	0.9	17
83	A methodology for characterizing the hydraulic effectiveness of an annular low-permeability barrier. Engineering Geology, 2011, 120, 68-80.	2.9	67
84	Computational and conceptual issues in the calibration of seawater intrusion models. Hydrogeology Journal, 2010, 18, 131-145.	0.9	90
85	Occurrence and fate of alkylphenol polyethoxylate degradation products and linear alkylbenzene sulfonate surfactants in urban ground water: Barcelona case study. Journal of Hydrology, 2010, 383, 102-110.	2.3	49
86	An approach to identify urban groundwater recharge. Hydrology and Earth System Sciences, 2010, 14, 2085-2097.	1.9	90
87	Onshore-offshore correlation of the Llobregat deltaic system, Spain: Development of deltaic geometries under different relative sea-level and growth fault influences. Sedimentary Geology, 2009, 217, 65-84.	1.0	44
88	Controls of $\delta^{34}\text{S}$ and $\delta^{18}\text{O}$ in dissolved sulphate: Learning from a detailed survey in the Llobregat River (Spain). Applied Geochemistry, 2008, 23, 1166-1185.	1.4	86
89	High-resolution seismic characterization in an urban area: Subway tunnel construction in Barcelona, Spain. Geophysics, 2008, 73, B41-B50.	1.4	46
90	Hydrological modelling of the Vallcebre landslide. , 2008, , 1517-1523.		0

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91	Estimation of Recharge from Floods in Disconnected Stream-Aquifer Systems. <i>Ground Water</i> , 2007, 45, 579-589.	0.7	38
92	On the meaning of the transmissivity values obtained from recovery tests. <i>Hydrogeology Journal</i> , 2007, 15, 833-842.	0.9	20
93	Optimal design of measures to correct seawater intrusion. <i>Water Resources Research</i> , 2006, 42, .	1.7	126
94	Groundwater modelling as a tool for the European Water Framework Directive (WFD) application: The Llobregat case. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 1015-1029.	1.2	45
95	Introductory review of specific factors influencing urban groundwater, an emerging branch of hydrogeology, with reference to Barcelona, Spain. <i>Hydrogeology Journal</i> , 2005, 13, 522-533.	0.9	183
96	Reactive transport modeling of calcite dissolution in the fresh-salt water mixing zone. <i>Journal of Hydrology</i> , 2005, 311, 282-298.	2.3	132
97	When intensive exploitation is a blessing. , 2005, , 253-260.		1
98	Fertilizer Characterization: Isotopic Data (N, S, O, C, and Sr). <i>Environmental Science & Technology</i> , 2004, 38, 3254-3262.	4.6	347
99	A methodology to compute mixing ratios with uncertain end-members. <i>Water Resources Research</i> , 2004, 40, .	1.7	110
100	Software tools for sustainable water resources management: the GIS-integrated FREEWAT platform. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 42, 59-61.	0.3	9
101	Customization, extension and reuse of outdated hydrogeological software. <i>Geologica Acta</i> , 0, 18, 1-11.	1.0	3