

MarÃ-a JesÃºs Turrero

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Land surface temperature changes in Northern Iberia since 4000yrBP, based on $\delta^{13}C$ of speleothems. <i>Global and Planetary Change</i> , 2011, 77, 1-12.	3.5	122
2	Generation and stability of bentonite colloids at the bentonite/granite interface of a deep geological radioactive waste repository. <i>Journal of Contaminant Hydrology</i> , 2003, 61, 17-31.	3.3	89
3	Modeling of geochemical processes related to uranium mobilization in the groundwater of a uranium mine. <i>Science of the Total Environment</i> , 2006, 366, 295-309.	8.0	71
4	The impact of the Aznalc��llar mine tailing spill on groundwater. <i>Science of the Total Environment</i> , 1999, 242, 189-209.	8.0	46
5	Interaction processes at the concrete-bentonite interface after 13 years of FEBEX-Plug operation. Part II: Bentonite contact. <i>Physics and Chemistry of the Earth</i> , 2017, 99, 49-63.	2.9	37
6	Study of the pore water chemistry through an argillaceous formation: a paleohydrochemical approach. <i>Applied Geochemistry</i> , 2003, 18, 55-73.	3.0	30
7	Speleothem Architectural Analysis: Integrated approach for stalagmite-based paleoclimate research. <i>Sedimentary Geology</i> , 2017, 353, 28-45.	2.1	28
8	Comparison of speleothem fabrics and microstratigraphic stacking patterns in calcite stalagmites as indicators of paleoenvironmental change. <i>Quaternary International</i> , 2016, 407, 74-85.	1.5	23
9	Interaction processes at the concrete-bentonite interface after 13 years of FEBEX-Plug operation. Part I: Concrete alteration. <i>Physics and Chemistry of the Earth</i> , 2017, 99, 38-48.	2.9	22
10	The vaterite saturation index can be used as a proxy of the S&DSI in sea water desalination by reverse osmosis process. <i>Desalination</i> , 2010, 254, 75-79.	8.2	21
11	Lime mortar-compacted bentonite-magnetite interfaces: An experimental study focused on the understanding of the EBS long-term performance for high-level nuclear waste isolation DGR concept. <i>Applied Clay Science</i> , 2016, 124-125, 79-93.	5.2	20
12	The geochemical aspects of toxic waters retained in the Entremuros area (Spain). <i>Science of the Total Environment</i> , 1999, 242, 27-40.	8.0	17
13	On site measurements of the redox and carbonate system parameters in the low-permeability Opalinus Clay formation at the Mont Terri Rock Laboratory. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 181-195.	2.9	17
14	Kinetic modelling of the attenuation of carbon steel canister corrosion due to diffusive transport through corrosion product layers. <i>Corrosion Science</i> , 2008, 50, 2197-2204.	6.6	17
15	Diagenetic processes influencing porosity in sandstones from the Triassic Buntsandstein of the Iberian Range, Spain. <i>Sedimentary Geology</i> , 1996, 105, 203-219.	2.1	16
16	Long-term hydrological changes in northern Iberia (4.9��0.9 ky BP) from speleothem Mg/Ca ratios and cave monitoring (Ojo Guare��a Karst Complex, Spain). <i>Environmental Earth Sciences</i> , 2015, 74, 7741-7753.	2.7	15
17	Strong links between Saharan dust fluxes, monsoon strength, and North Atlantic climate during the last 5000 years. <i>Science Advances</i> , 2021, 7, .	10.3	15
18	Geochemical conditions for the formation of Mg silicates phases in bentonite and implications for radioactive waste disposal. <i>Applied Geochemistry</i> , 2018, 93, 1-9.	3.0	13

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19	Authigenic Clay Minerals from Interface Reactions of Concrete-Clay Engineered Barriers: A New Perspective on Mg-Clays Formation in Alkaline Environments. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 362.	2.0	13
20	Coupled THCM model of a heating and hydration concrete-bentonite column test. <i>Applied Geochemistry</i> , 2018, 94, 67-81.	3.0	13
21	Generation and Characterisation of Colloids of the Near Field / far Field Interface. <i>Materials Research Society Symposia Proceedings</i> , 1999, 556, 647.	0.1	12
22	Visualization of elastic strain fields by the spatial distribution of the blue luminescence in a twinned microcline crystal. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 639-650.	0.8	11
23	Modelling of bentonite "granite solutes transfer from an in situ full-scale experiment to simulate a deep geological repository (Grimsel Test Site, Switzerland). <i>Applied Geochemistry</i> , 2010, 25, 1797-1804.	3.0	11
24	Bentonite Powder XRD Quantitative Analysis Using Rietveld Refinement: Revisiting and Updating Bulk Semiquantitative Mineralogical Compositions. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 772.	2.0	10
25	Stable isotopes applied to the study of the concrete/bentonite interaction in the FEBEX in situ test. <i>Applied Geochemistry</i> , 2019, 100, 432-443.	3.0	6
26	Evaluation of the Efficiency of a Clay Permeable Reactive Barrier for the Remediation of Groundwater Contaminated with ¹³⁷ Cs. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 444-447.	0.6	5
27	FEBEX In-Situ Test: Preliminary Results of the Geochemical Characterization of the Metal/Bentonite Interface. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 802-805.	0.6	5
28	Relation between colloid composition and the environment of their formation: application to the El Berrocal site (Spain). <i>Applied Geochemistry</i> , 1995, 10, 119-131.	3.0	4
29	Concrete perturbation in a 13-year in situ concrete/bentonite interaction from FEBEX experiments. New insight of 2:1 Mg phyllosilicate precipitation at the interface. <i>Applied Geochemistry</i> , 2020, 118, 104624.	3.0	4
30	Changes on the Mineralogical and Physical Properties of FEBEX Bentonite Due to Its Contact With Hyperalkaline Pore Fluids in Infiltration Tests. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1107, 1.	0.1	2
31	Chemical Characteristics of Acid Mine Drainage from an As-W Mineralized Zone in Western Spain. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 284-287.	0.6	2
32	Variations in Trace Elements of Drip Waters in Kaite Cave (N Spain): Significance in Terms of Present and Past Processes in the Karst System. , 2015, , 579-587.		2
33	Trace Elements in Speleothems as Indicators of Past Climate and Karst Hydrochemistry: A Case Study from Kaite Cave (N Spain). , 2015, , 569-577.		2
34	Geochemical gradients at the near-far field interface at the FEBEX experimental gallery (Grimsel Test) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		1
35	Evolution of the Geochemical Conditions in the Bentonite Barrier and its Influence on the Corrosion of the Carbon Steel Canister. , 2008, , .		1
36	Geochemical Processes at the Carbon steel/bentonite Interface in Repository Conditions. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	0

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37	Chemical Equilibrium of the Dissolved Uranium in Groundwaters From a Spanish Uranium-ore Deposit. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	0
38	Mineralogical Control of the REE Distribution in the Fracture Fillings of an Uranium-Ore (Caceres-Spain). Materials Research Society Symposia Proceedings, 2009, 1193, .	0.1	0
39	Reply to Comment by Domínguez-Villar on "Land surface temperature changes in Northern Iberia since 4000yr BP, based in $\delta^{13}C$ of speleothems" (Martín-Chivelet et al., 2011). Global and Planetary Change, 2013, 101, 129-130.	3.5	0
40	Processes controlling pollution in a stream affected by mine drainages (Spain). , 2007, , .		0
41	Geochemical evolution of drip-water and present-growing calcite at Kaite cave (N Spain). , 2007, , .		0
42	Chemical characteristics of the waters of a uranium mineralized zone in NW Spain. , 2007, , .		0
43	Temporal Evolution of the Concrete-Bentonite System under Repository Conditions. , 2008, , .		0