

Ana Maria Fernandez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6411218/publications.pdf>

Version: 2024-02-01

41
papers

1,070
citations

394421

19
h-index

414414

32
g-index

42
all docs

42
docs citations

42
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the porewater chemical composition of a Spanish compacted bentonite used in an engineered barrier. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 105-118.	2.9	139
2	Swelling pressures of MX-80 bentonite in solutions of different ionic strength. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S327-S342.	2.9	111
3	Interlayer Collapse Affects on Cesium Adsorption Onto Illite. <i>Environmental Science & Technology</i> , 2014, 48, 4909-4915.	10.0	64
4	Applying the squeezing technique to highly consolidated clayrocks for pore water characterisation: Lessons learned from experiments at the Mont Terri Rock Laboratory. <i>Applied Geochemistry</i> , 2014, 49, 2-21.	3.0	54
5	A coupled THMC model of a heating and hydration laboratory experiment in unsaturated compacted FEBEX bentonite. <i>Journal of Hydrology</i> , 2010, 386, 80-94.	5.4	51
6	Coupled thermo-hydro-chemical models of compacted bentonite after FEBEX in situ test. <i>Applied Geochemistry</i> , 2008, 23, 1186-1201.	3.0	45
7	Pore Water Chemistry of the Febex Bentonite. <i>Materials Research Society Symposia Proceedings</i> , 2000, 663, 1.	0.1	40
8	Inverse modeling of multicomponent reactive transport through single and dual porosity media. <i>Journal of Contaminant Hydrology</i> , 2008, 98, 115-127.	3.3	39
9	Geochemical behaviour of a bentonite barrier in the laboratory after up to 8years of heating and hydration. <i>Applied Geochemistry</i> , 2010, 25, 809-824.	3.0	39
10	Becquerelite mineral phase: crystal structure and thermodynamic and mechanical stability by using periodic DFT. <i>RSC Advances</i> , 2018, 8, 24599-24616.	3.6	36
11	Pore waters extracted from compacted bentonite subjected to simultaneous heating and hydration. <i>Applied Geochemistry</i> , 1997, 12, 473-481.	3.0	35
12	Temperature-Dependent Gibbs Free Energies of Reaction of Uranyl-Containing Materials Based on Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5268-5279.	3.1	34
13	Thermodynamic Properties of Uranyl-Containing Materials Based on Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5254-5267.	3.1	32
14	Long-term geochemical evolution of the near field repository: Insights from reactive transport modelling and experimental evidences. <i>Journal of Contaminant Hydrology</i> , 2008, 102, 196-209.	3.3	28
15	Retention of arsenic, chromium and boron on an outcropping clay-rich rock formation (the TÄ©gulines) Tj ETQq1 1,0,784314 rgBT /Ove	3.0	26
16	Periodic DFT Study of the Thermodynamic Properties and Stability of Schoepite and Metaschoepite Mineral Phases. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 17-28.	2.7	26
17	Colloidal properties of different smectite clays: Significance for the bentonite barrier erosion and radionuclide transport in radioactive waste repositories. <i>Applied Geochemistry</i> , 2018, 97, 157-166.	3.0	25
18	<i>In situ</i> diffusion test of hydrogen gas in the Opalinus Clay. <i>Geological Society Special Publication</i> , 2014, 400, 563-578.	1.3	24

#	ARTICLE	IF	CITATIONS
19	N ₂ O and CH ₄ fluxes in undisturbed and burned holm oak, scots pine and pyrenean oak forests in central Spain. <i>Biogeochemistry</i> , 2012, 107, 19-41.	3.5	22
20	Analysis of the stability behaviour of colloids obtained from different smectite clays. <i>Applied Geochemistry</i> , 2018, 92, 180-187.	3.0	20
21	Carbon dioxide fluxes across the Sierra de Guadarrama, Spain. <i>European Journal of Forest Research</i> , 2010, 129, 93-100.	2.5	19
22	Effect of wildfires on soil respiration in three typical Mediterranean forest ecosystems in Madrid, Spain. <i>Plant and Soil</i> , 2013, 369, 403-420.	3.7	19
23	The hydration of bentonite buffer material revealed by modeling analysis of a long-term in situ test. <i>Applied Clay Science</i> , 2020, 185, 105360.	5.2	18
24	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
25	Evolution of the THC conditions in the FEBEX in situ test after 18 years of experiment: Smectite crystallochemical modifications after interactions of the bentonite with a C-steel heater at 100°C. <i>Applied Geochemistry</i> , 2018, 98, 152-171.	3.0	17
26	Erosion behaviour of raw bentonites under compacted and confined conditions: Relevance of smectite content and clay/water interactions. <i>Applied Geochemistry</i> , 2018, 94, 11-20.	3.0	12
27	A Deep Alteration and Oxidation Profile in a Shallow Clay Aquitard: Example of the Argulines Clay, East Paris Basin, France. <i>Geofluids</i> , 2018, 2018, 1-20.	0.7	12
28	Microbially Mediated Release of As from Mekong Delta Peat Sediments. <i>Environmental Science & Technology</i> , 2019, 53, 10208-10217.	10.0	12
29	Structural, mechanical, spectroscopic and thermodynamic characterization of the copper-uranyl tetrahydroxide mineral vandenbrandeite. <i>RSC Advances</i> , 2019, 9, 40708-40726.	3.6	10
30	Influence of soil redox state on mercury sorption and reduction capacity. <i>Science of the Total Environment</i> , 2020, 707, 136069.	8.0	10
31	Characterization of Bentonites from the In Situ ABM5 Heater Experiment at Åspö Hard Rock Laboratory, Sweden. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 471.	2.0	7
32	Development of a multiparametric system based on solid-state microsensors for monitoring a nuclear waste repository. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 103-108.	7.8	6
33	Natural organic matter contained in clay rock pore water: Direct quantification at the molecular level using electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1331-1343.	1.5	5
34	Measurements of gas generation, water content and change in the water distribution in a heater experiment in the underground laboratory Mont Terri. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 530-537.	2.9	4
35	Infrared and Mössbauer spectroscopy of Fe-rich smectites from Morro de Mateo bentonite deposit (Spain). <i>Clay Minerals</i> , 2018, 53, 17-28.	0.6	3
36	State of a Bentonite Barrier after 8 Years of Heating and Hydration in the Laboratory. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	2

#	ARTICLE	IF	CITATIONS
37	Changes on the Mineralogical and Physical Properties of FEBEX Bentonite Due to Its Contact With Hyperalkaline Pore Fluids in Infiltration Tests. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	2
38	Editorial for Special Issue "Clay Mineral Transformations after Bentonite/Clayrocks and Heater/Water Interactions from Lab and Large-Scale Tests". Minerals (Basel, Switzerland), 2022, 12, 569.	2.0	1
39	Forward and inverse modelling of multicomponent reactive transport in single and double porosity media. Developments in Water Science, 2004, , 805-816.	0.1	0
40	THMC Analysis of Unsaturated Swelling Clay Subjected to Heating and Hydration. , 2007, , .		0
41	Formulation for the THMC Analysis of Clayey Materials: Application to Radioactive Waste Disposal. , 2008, , .		0