

Ursula Alonso

List of Publications by Year in descending order

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49
papers

1,324
citations

394421

19
h-index

345221

36
g-index

50
all docs

50
docs citations

50
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics and irreversibility of cesium and uranium sorption onto bentonite colloids in a deep granitic environment. <i>Applied Clay Science</i> , 2004, 26, 137-150.	5.2	127
2	Sorption of strontium onto illite/smectite mixed clays. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S156-S162.	2.9	106
3	Experimental study and modelling of selenite sorption onto illite and smectite clays. <i>Journal of Colloid and Interface Science</i> , 2009, 334, 132-138.	9.4	102
4	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
5	Role of bentonite colloids on europium and plutonium migration in a granite fracture. <i>Applied Geochemistry</i> , 2008, 23, 1484-1497.	3.0	84
6	Selenite retention by nanocrystalline magnetite: Role of adsorption, reduction and dissolution/co-precipitation processes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6205-6217.	3.9	83
7	Modeling cesium retention onto Na-, K- and Ca-smectite: Effects of ionic strength, exchange and competing cations on the determination of selectivity coefficients. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 266-277.	3.9	82
8	Nanoparticles and their influence on radionuclide mobility in deep geological formations. <i>Applied Geochemistry</i> , 2012, 27, 390-403.	3.0	61
9	Strontium migration in a crystalline medium: effects of the presence of bentonite colloids. <i>Journal of Contaminant Hydrology</i> , 2011, 122, 76-85.	3.3	36
10	Quantification of Au nanoparticles retention on a heterogeneous rock surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 347, 230-238.	4.7	35
11	Selenium(IV) Sorption Onto Al_2O_3 : A Consistent Description of the Surface Speciation by Spectroscopy and Thermodynamic Modeling. <i>Environmental Science & Technology</i> , 2018, 52, 581-588.	10.0	34
12	Analysis of barium retention mechanisms on calcium silicate hydrate phases. <i>Cement and Concrete Research</i> , 2017, 93, 8-16.	11.0	33
13	Analysis of colloids erosion from the bentonite barrier of a high level radioactive waste repository and implications in safety assessment. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1607-1615.	2.9	32
14	Size distribution analysis of colloid generated from compacted bentonite in low ionic strength aqueous solutions. <i>Applied Clay Science</i> , 2014, 95, 284-293.	5.2	25
15	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
16	Colloid diffusion in crystalline rock: An experimental methodology to measure diffusion coefficients and evaluate colloid size dependence. <i>Earth and Planetary Science Letters</i> , 2007, 259, 372-383.	4.4	24
17	Diffusion coefficient measurements in consolidated clay by RBS micro-scale profiling. <i>Applied Clay Science</i> , 2009, 43, 477-484.	5.2	23
18	Bentonite colloid diffusion through the host rock of a deep geological repository. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 469-476.	2.9	21

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19	Analysis of latex, gold and smectite colloid transport and retention in artificial fractures in crystalline rock. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 435, 115-126.	4.7	20
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	Modelling large-scale laboratory HTO and strontium diffusion experiments in Mont Terri and Bure clay rocks. <i>Physics and Chemistry of the Earth</i> , 2008, 33, 949-956.	2.9	19
22	Comparison between cesium and sodium retention on calcium silicate hydrate (C S H) phases. <i>Applied Geochemistry</i> , 2018, 98, 36-44.	3.0	19
23	Radium retention by blended cement pastes and pure phases (C-S-H and C-A-S-H gels): Experimental assessment and modelling exercises. <i>Applied Geochemistry</i> , 2019, 105, 45-54.	3.0	19
24	Diffusion experiments in Callovo-Oxfordian clay from the Meuse/Haute-Marne URL, France. Experimental setup and data analyses. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S125-S130.	2.9	18
25	Modelling americium sorption onto colloids: effect of redox potential. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 217, 55-62.	4.7	17
26	Size distribution of FEBEX bentonite colloids upon fast disaggregation in low-ionic strength water. <i>Clay Minerals</i> , 2016, 51, 213-222.	0.6	17
27	Evaluation of component additive modelling approach for europium adsorption on 2:1 clays: Experimental, thermodynamic databases, and models. <i>Chemosphere</i> , 2021, 272, 129877.	8.2	15
28	Study of the contaminant transport into granite microfractures using nuclear ion beam techniques. <i>Journal of Contaminant Hydrology</i> , 2003, 61, 95-105.	3.3	14
29	Analysis of anion adsorption effects on alumina nanoparticles stability. <i>Applied Geochemistry</i> , 2014, 49, 68-76.	3.0	14
30	Effects of Al^{3+} -alumina nanoparticles on strontium sorption in smectite: Additive model approach. <i>Applied Geochemistry</i> , 2019, 100, 121-130.	3.0	14
31	RBS and He^{4+} PIXE analysis of uranium diffusion from bentonite to the rock matrix in a deep geological waste repository. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 207, 195-204.	1.4	13
32	Numerical modeling of large-scale solid-source diffusion experiments in Callovo-Oxfordian clay. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S208-S215.	2.9	12
33	Diffusion of strongly sorbing cations (^{60}Co and ^{152}Eu) in compacted FEBEX bentonite. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1708-1713.	2.9	12
34	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
35	Analysis of the improvement of selenite retention in smectite by adding alumina nanoparticles. <i>Science of the Total Environment</i> , 2016, 572, 1025-1032.	8.0	9
36	Colloid diffusion coefficients in compacted and consolidated clay barriers: Compaction density and colloid size effects. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1700-1707.	2.9	8

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37	Nickel retention by calcium silicate hydrate phases: Evaluation of the role of the Ca/Si ratio on adsorption and precipitation processes. Applied Geochemistry, 2022, 137, 105197.	3.0	8
38	Validation of the RBS analysis for colloid migration through a rough granite surface. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 575-578.	1.4	7
39	Detection of actinides and rare earths in natural matrices with the AGLAE new, high sensitivity detection set-up. Nuclear Instruments & Methods in Physics Research B, 2014, 332, 245-250.	1.4	5
40	Selenite Retention and Cation Coadsorption Effects under Alkaline Conditions Generated by Cementitious Materials: The Case of C-S-H Phases. ACS Omega, 2019, 4, 13418-13425.	3.5	3
41	Experimental study of colloid interactions with rock surfaces. Materials Research Society Symposia Proceedings, 2004, 824, 444.	0.1	2
42	Experimental Approach to Study the Colloid Generation from the Bentonite Barrier to Quantify the Source Term and to Assess its Relevance on the Radionuclide Migration. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	2
43	Experimental Study and Modeling of Uranium (VI) Sorption onto a Spanish Smectite. Materials Research Society Symposia Proceedings, 2008, 1124, 1.	0.1	2
44	Addition of Al ₂ O ₃ nanoparticles to bentonite: effects on surface charge and Cd sorption properties. Materials Research Society Symposia Proceedings, 2014, 1665, 131-137.	0.1	1
45	RBS and micro-PIXE study of I and Cs Heterogeneous Retention on Concrete. Materials Research Society Symposia Proceedings, 2008, 1124, 1.	0.1	0
46	Colloid and Radionuclide Transport in Granite Under Low Water Flow Rates Expected in a Geological Repository. Materials Research Society Symposia Proceedings, 2009, 1193, 193.	0.1	0
47	Characterisation of concrete, mortar and calcium silicate hydrated phases (CSH) and thorium retention analyses by ion beam techniques.. Materials Research Society Symposia Proceedings, 2012, 1475, 355.	0.1	0
48	Ion beam analyses of radionuclide migration in heterogeneous rocks. , 2013, , .		0
49	Se(IV) uptake by $\tilde{A}_{sp}\tilde{A}_{\uparrow}$ diorite: Micro-scale distribution. Applied Geochemistry, 2014, 49, 87-94.	3.0	0