

# 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	Nickel retention by calcium silicate hydrate phases: Evaluation of the role of the Ca/Si ratio on adsorption and precipitation processes. <i>Applied Geochemistry</i> , 2022, 137, 105197.	3.0	8
2	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
3	Selenite Retention and Cation Co-adsorption Effects under Alkaline Conditions Generated by Cementitious Materials: The Case of C-S-H Phases. <i>ACS Omega</i> , 2019, 4, 13418-13425.	3.5	3
4	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
5	Effects of $\text{Al}^{3+}$ -alumina nanoparticles on strontium sorption in smectite: Additive model approach. <i>Applied Geochemistry</i> , 2019, 100, 121-130.	3.0	14
6	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
7	Analysis of the stability behaviour of colloids obtained from different smectite clays. <i>Applied Geochemistry</i> , 2018, 92, 180-187.	3.0	20
8	Selenium(IV) Sorption Onto $\text{Al}_2\text{O}_3$ : A Consistent Description of the Surface Speciation by Spectroscopy and Thermodynamic Modeling. <i>Environmental Science &amp; Technology</i> , 2018, 52, 581-588.	10.0	34
9	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
10	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
11	Analysis of barium retention mechanisms on calcium silicate hydrate phases. <i>Cement and Concrete Research</i> , 2017, 93, 8-16.	11.0	33
12	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
13	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
14	Se(IV) uptake by $\text{Al}_2\text{SiO}_5$ diorite: Micro-scale distribution. <i>Applied Geochemistry</i> , 2014, 49, 87-94.	3.0	0
15	Addition of $\text{Al}_2\text{O}_3$ nanoparticles to bentonite: effects on surface charge and Cd sorption properties. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1665, 131-137.	0.1	1
16	Analysis of anion adsorption effects on alumina nanoparticles stability. <i>Applied Geochemistry</i> , 2014, 49, 68-76.	3.0	14
17	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
18	Detection of actinides and rare earths in natural matrices with the AGLAE new, high sensitivity detection set-up. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 332, 245-250.	1.4	5

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19	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
20	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
21	Ion beam analyses of radionuclide migration in heterogeneous rocks. , 2013, , .		0
22	Characterisation of concrete, mortar and calcium silicate hydrated phases (CSH) and thorium retention analyses by ion beam techniques.. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1475, 355.	0.1	0
23	Nanoparticles and their influence on radionuclide mobility in deep geological formations. <i>Applied Geochemistry</i> , 2012, 27, 390-403.	3.0	61
24	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
25	Diffusion of strongly sorbing cations ( <sup>60</sup> Co and <sup>152</sup> Eu) in compacted FEBEX bentonite. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1708-1713.	2.9	12
26	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
27	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
28	Colloid and Radionuclide Transport in Granite Under Low Water Flow Rates Expected in a Geological Repository. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1193, 193.	0.1	0
29	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
30	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
31	Diffusion coefficient measurements in consolidated clay by RBS micro-scale profiling. <i>Applied Clay Science</i> , 2009, 43, 477-484.	5.2	23
32	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
33	Role of bentonite colloids on europium and plutonium migration in a granite fracture. <i>Applied Geochemistry</i> , 2008, 23, 1484-1497.	3.0	84
34	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
35	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
36	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

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37	Sorption of strontium onto illite/smectite mixed clays. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S156-S162.	2.9	106
38	Experimental Study and Modeling of Uranium (VI) Sorption onto a Spanish Smectite. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1124, 1.	0.1	2
39	RBS and micro-PIXE study of I and Cs Heterogeneous Retention on Concrete. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1124, 1.	0.1	0
40	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
41	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
42	Validation of the RBS analysis for colloid migration through a rough granite surface. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 249, 575-578.	1.4	7
43	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. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	2
44	Experimental study of colloid interactions with rock surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2004, 824, 444.	0.1	2
45	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
46	RBS and $\text{R}^3\text{PIXE}$ analysis of uranium diffusion from bentonite to the rock matrix in a deep geological waste repository. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 207, 195-204.	1.4	13
47	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
48	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
49	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