

Miguel Garcia-Gutierrez

List of Publications by Year in descending order

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68
papers

1,922
citations

257450

24
h-index

254184

43
g-index

70
all docs

70
docs citations

70
times ranked

1568
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	Complexation of Nd(III)/Cm(III) with gluconate in alkaline NaCl and CaCl ₂ solutions: Solubility, TRLFS and DFT studies. <i>Applied Geochemistry</i> , 2021, 126, 104864.	3.0	12
3	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
4	Selenite Retention and Cation Coadsorption 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
5	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
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	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
9	Cesium diffusion in mortars from different cements used in radioactive waste repositories. <i>Applied Geochemistry</i> , 2018, 98, 10-16.	3.0	8
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	Sorption of radium onto early cretaceous clays (Gault and Plicatules Fm). Implications for a repository of low-level, long-lived radioactive waste. <i>Applied Geochemistry</i> , 2017, 86, 36-48.	3.0	6
13	Transport of radioselenium oxyanions by diffusion in unsaturated soils. <i>Radiochimica Acta</i> , 2015, 103, 501-511.	1.2	1
14	A clay permeable reactive barrier to remove Cs-137 from groundwater: Column experiments. <i>Journal of Environmental Radioactivity</i> , 2015, 149, 36-42.	1.7	34
15	Se(IV) uptake by $\tilde{A}_{sp}\tilde{A}$ diorite: Micro-scale distribution. <i>Applied Geochemistry</i> , 2014, 49, 87-94.	3.0	0
16	Addition of Al ₂ 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
17	Experimental adsorption studies on different materials selected for developing a permeable reactive barrier for radiocesium retention. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1665, 117-122.	0.1	0
18	Analysis of anion adsorption effects on alumina nanoparticles stability. <i>Applied Geochemistry</i> , 2014, 49, 68-76.	3.0	14

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19	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
20	Modelling of Cs sorption in natural mixed-clays and the effects of ion competition. <i>Applied Geochemistry</i> , 2014, 49, 95-102.	3.0	40
21	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
22	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
23	Ion beam analyses of radionuclide migration in heterogeneous rocks. , 2013, , .		0
24	Thermodynamics of Np(IV) complexes with gluconic acid under alkaline conditions: sorption studies. <i>Radiochimica Acta</i> , 2013, 101, 133-138.	1.2	9
25	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
26	Sorption of Pu(IV) and Tc(IV) on concrete and mortar and effect of the complexation by isosaccharinic acid.. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1475, 361.	0.1	1
27	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
28	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
29	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
30	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
31	Comparison of laboratory methodologies for evaluating radiostrontium diffusion in soils: Planar-source versus half-cell methods. <i>Science of the Total Environment</i> , 2010, 408, 5966-5971.	8.0	6
32	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
33	Characterisation of Granite Fractures From the In-Situ FEBEX Experiment (Grimsel, Switzerland): possible Effects on Bentonite Colloid and Radionuclide Transport. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1193, 169.	0.1	1
34	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
35	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
36	Diffusion coefficient measurements in consolidated clay by RBS micro-scale profiling. <i>Applied Clay Science</i> , 2009, 43, 477-484.	5.2	23

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37	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
38	Role of bentonite colloids on europium and plutonium migration in a granite fracture. <i>Applied Geochemistry</i> , 2008, 23, 1484-1497.	3.0	84
39	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
40	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
41	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
42	Sorption of strontium onto illite/smectite mixed clays. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S156-S162.	2.9	106
43	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
44	Diffusion of ⁶⁰ Co, ¹³⁷ Cs and ¹⁵² Eu in Opalinus Clay. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1124, 1.	0.1	2
45	Adsorption of bivalent ions (Ca(II), Sr(II) and Co(II)) onto FEBEX bentonite. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 559-567.	2.9	73
46	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
47	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
48	Large-scale laboratory diffusion experiments in clay rocks. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 523-530.	2.9	28
49	Inverse modeling of tracer experiments in FEBEX compacted Ca-bentonite. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 640-648.	2.9	52
50	Validation of the RBS analysis for colloid migration through a rough granite surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 575-578.	1.4	7
51	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
52	Determination of Granites' Mineral Specific Porosities by PMMA Method and FESEM/EDAX. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	3
53	Mechanisms of cesium sorption onto magnetite. <i>Radiochimica Acta</i> , 2006, 94, 671-677.	1.2	12
54	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

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55	Diffusion coefficients and accessible porosity for HTO and ³⁶ Cl in compacted FEBEX bentonite. Applied Clay Science, 2004, 26, 65-73.	5.2	74
56	Diffusion experiments with compacted powder/pellets clay mixtures. Applied Clay Science, 2004, 26, 57-64.	5.2	13
57	Simultaneous estimation of effective and apparent diffusion coefficients in compacted bentonite. Journal of Contaminant Hydrology, 2003, 61, 63-72.	3.3	29
58	Surface reactions kinetics between nanocrystalline magnetite and uranyl. Journal of Colloid and Interface Science, 2003, 261, 154-160.	9.4	128
59	Experimental and modeling study of the uranium (VI) sorption on goethite. Journal of Colloid and Interface Science, 2003, 260, 291-301.	9.4	106
60	Uranium (VI) sorption on colloidal magnetite under anoxic environment: experimental study and surface complexation modelling. Geochimica Et Cosmochimica Acta, 2003, 67, 2543-2550.	3.9	106
61	Analysis of Uranium Diffusion Coefficients in Compacted FEBEX Bentonite. Materials Research Society Symposia Proceedings, 2003, 807, 789.	0.1	3
62	Study of the Uranium Heterogeneous Diffusion through Crystalline Rocks and Effects of the "Clay-Mediated" Transport. Materials Research Society Symposia Proceedings, 2003, 807, 170.	0.1	2
63	Solute transport properties of compacted Ca-bentonite used in FEBEX project. Journal of Contaminant Hydrology, 2001, 47, 127-137.	3.3	49
64	Migration Experiments in Compacted Ca-Bentonite. Materials Research Society Symposia Proceedings, 1999, 556, 695.	0.1	2
65	Tracer test at El Berrocal site. Journal of Contaminant Hydrology, 1997, 26, 179-188.	3.3	31
66	Field tracer experiment in a low permeability fractured medium: results from El Berrocal site. Journal of Contaminant Hydrology, 1997, 26, 189-201.	3.3	17
67	Advective and diffusive transport of trace metals in soil-water systems as studied by radiotracer methodologies. Journal of Radioanalytical and Nuclear Chemistry, 1994, 179, 243-250.	1.5	3
68	Experimental Investigations of Radionuclide Transport Through Cored Granite Samples. Radiochimica Acta, 1991, 52-53, 213-218.	1.2	20