

Josep M Soler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7535601/publications.pdf>

Version: 2024-02-01

74
papers

2,729
citations

201674

27
h-index

182427

51
g-index

78
all docs

78
docs citations

78
times ranked

1936
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive Modeling of a Simple Field Matrix Diffusion Experiment Addressing Radionuclide Transport in Fractured Rock. Is It So Straightforward?. Nuclear Technology, 2022, 208, 1059-1073.	1.2	4
2	Dissolution kinetics of garnierites from the Falcondo Ni-Laterite deposit (Dominican Republic) under acidic conditions. Applied Geochemistry, 2022, 143, 105357.	3.0	0
3	Effect of acid mine drainage (AMD) on the alteration of hydrated Portland cement and calcareous sandstone. Applied Geochemistry, 2021, 126, 104900.	3.0	2
4	Interaction between CO ₂ -rich acidic water, hydrated Portland cement and sedimentary rocks: Column experiments and reactive transport modeling. Chemical Geology, 2021, 572, 120122.	3.3	4
5	Flow and reaction along the interface between hydrated Portland cement and calcareous rocks during CO ₂ injection. Laboratory experiments and modeling. International Journal of Greenhouse Gas Control, 2021, 108, 103331.	4.6	4
6	Dissimilatory bioreduction of iron(III) oxides by <i>Shewanella loihica</i> under marine sediment conditions. Marine Environmental Research, 2019, 151, 104782.	2.5	15
7	Acid Water-Rock-Cement Interaction and Multicomponent Reactive Transport Modeling. Reviews in Mineralogy and Geochemistry, 2019, 85, 459-498.	4.8	10
8	Column experiments to study the interaction between acid mine drainage and rock and Portland cement. E3S Web of Conferences, 2019, 98, 09003.	0.5	2
9	Modeling the Ionic Strength Effect on Diffusion in Clay. The DR-A Experiment at Mont Terri. ACS Earth and Space Chemistry, 2019, 3, 442-451.	2.7	25
10	15. Acid Water-Rock-Cement Interaction and Multicomponent Reactive Transport Modeling. , 2019, , 459-498.		0
11	Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20 years of field research. Swiss Journal of Geosciences Supplement, 2018, , 393-405.	0.0	4
12	Effect of dissolved H ₂ SO ₄ on the interaction between CO ₂ -rich brine solutions and limestone, sandstone and marl. Chemical Geology, 2017, 450, 31-43.	3.3	18
13	Reactive transport modelling of a high-pH infiltration test in concrete. Physics and Chemistry of the Earth, 2017, 99, 131-141.	2.9	2
14	Reactive transport model of the formation of oxide-type Ni-laterite profiles (Punta Gorda, Moa Bay, Cuba). Applied Geochemistry, 2017, 84, 10-19.	4.1	10
15	Reactivity of a Marl Caprock in Contact with Acid Solutions under Different pCO ₂ Conditions (Atmospheric, 10 and 37 Bar). Procedia Earth and Planetary Science, 2017, 17, 528-531.	0.6	1
16	Laboratory-scale Interaction Between CO ₂ -saturated H ₂ SO ₄ -rich Brine and Reservoir Rocks (Limestone). Applied Geochemistry, 2017, 84, 10-19.	0.6	1
17	Experimental and modeling study of the interaction between a crushed marl caprock and CO ₂ -rich solutions under different pressure and temperature conditions. Chemical Geology, 2017, 448, 26-42.	3.3	24
18	The role of mineral heterogeneity on the hydrogeochemical response of two fractured reservoir rocks in contact with dissolved CO ₂ . Applied Geochemistry, 2017, 84, 202-217.	3.0	26

#	ARTICLE	IF	CITATIONS
19	Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20 years of field research. <i>Swiss Journal of Geosciences</i> , 2017, 110, 391-403.	1.2	19
20	Reactive transport modelling of cement-groundwater-rock interaction at the Grimsel Test Site. <i>Physics and Chemistry of the Earth</i> , 2017, 99, 64-76.	2.9	9
21	Degradation of mortar under advective flow: Column experiments and reactive transport modeling. <i>Cement and Concrete Research</i> , 2016, 81, 81-93.	11.0	9
22	2D reactive transport modeling of the interaction between a marl and a CO ₂ -rich sulfate solution under supercritical CO ₂ conditions. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 145-159.	4.6	17
23	Interaction between a fractured marl caprock and CO ₂ -rich sulfate solution under supercritical CO ₂ conditions. <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 105-119.	4.6	56
24	Two-dimensional reactive transport modeling of the alteration of a fractured limestone by hyperalkaline solutions at Maqarin (Jordan). <i>Applied Geochemistry</i> , 2016, 66, 162-173.	3.0	10
25	Efficiency of magnesium hydroxide as engineering seal in the geological sequestration of CO ₂ . <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 171-185.	4.6	8
26	Modelling of Matrix Diffusion in a Tracer Test in Concrete. <i>Transport in Porous Media</i> , 2016, 111, 27-40.	2.6	2
27	A single-site reactive transport model of Cs ⁺ for the in situ diffusion and retention (DR) experiment. <i>Environmental Earth Sciences</i> , 2015, 74, 3589-3601.	2.7	5
28	Influence of the flow rate on dissolution and precipitation features during percolation of CO ₂ -rich sulfate solutions through fractured limestone samples. <i>Chemical Geology</i> , 2015, 414, 95-108.	3.3	71
29	Comparative modeling of an in situ diffusion experiment in granite at the Grimsel Test Site. <i>Journal of Contaminant Hydrology</i> , 2015, 179, 89-101.	3.3	41
30	Structural changes in Ca-Si-H gel during dissolution: Small-angle neutron scattering and Si-NMR characterization. <i>Cement and Concrete Research</i> , 2015, 72, 76-89.	11.0	32
31	Processes affecting the efficiency of limestone in passive treatments for AMD: Column experiments. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 304-316.	6.7	20
32	Direct nanoscale observations of the coupled dissolution of calcite and dolomite and the precipitation of gypsum. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1245-1253.	2.8	30
33	Modeling of an in-situ diffusion experiment in granite at the Grimsel Test Site. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1665, 85-91.	0.1	2
34	The DR-A in-situ diffusion experiment at Mont Terri: Effects of changing salinity on diffusion and retention properties.. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1665, 63-69.	0.1	4
35	Interaction between CO ₂ -rich sulfate solutions and carbonate reservoir rocks from atmospheric to supercritical CO ₂ conditions: Experiments and modeling. <i>Chemical Geology</i> , 2014, 383, 107-122.	3.3	45
36	Dissolution kinetics of Ca-Si-H gel: Flow-through experiments. <i>Physics and Chemistry of the Earth</i> , 2014, 70-71, 17-31.	2.9	45

#	ARTICLE	IF	CITATIONS
37	The determination of ^{134}Cs and ^{22}Na diffusion profiles in granodiorite using gamma spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 2153-2161.	1.5	27
38	Modeling of Cs^+ diffusion and retention in the DI-A2 experiment (Mont Terri). Uncertainties in sorption and diffusion parameters. <i>Applied Geochemistry</i> , 2013, 33, 191-198.	3.0	11
39	Laboratory-Scale Interaction between CO_2 -Rich Brine and Reservoir Rocks (Limestone and Sandstone). <i>Procedia Earth and Planetary Science</i> , 2013, 7, 109-112.	0.6	12
40	Calcite interaction with acidic sulphate solutions: a vertical scanning interferometry and energy-dispersive XRF study. <i>European Journal of Mineralogy</i> , 2013, 25, 331-351.	1.3	15
41	Reactive transport modeling of concrete-clay interaction during 15 years at the Tournemire Underground Rock Laboratory. <i>European Journal of Mineralogy</i> , 2013, 25, 639-654.	1.3	12
42	Ni Enrichment and Stability of Al-Free Garnierite Solid-Solutions: A Thermodynamic Approach. <i>Clays and Clay Minerals</i> , 2012, 60, 121-135.	1.3	30
43	High-pH plume from low-alkali-cement fracture grouting: Reactive transport modeling and comparison with pH monitoring at ONKALO (Finland). <i>Applied Geochemistry</i> , 2012, 27, 2096-2106.	3.0	5
44	Inverse Estimation of the Effective Diffusion of the Filter in the In Situ Diffusion and Retention (DR) Experiment. <i>Transport in Porous Media</i> , 2012, 93, 415-429.	2.6	5
45	Identifiability of diffusion and retention parameters of anionic tracers from the diffusion and retention (DR) experiment. <i>Journal of Hydrology</i> , 2012, 446-447, 70-76.	5.4	11
46	Reactive transport modeling of the interaction between water and a cementitious grout in a fractured rock. Application to ONKALO (Finland). <i>Applied Geochemistry</i> , 2011, 26, 1115-1129.	3.0	26
47	A comparative study of the modelling of cement hydration and cement-“rock laboratory experiments. <i>Applied Geochemistry</i> , 2011, 26, 1138-1152.	3.0	22
48	Dissolution kinetics of synthetic Na-smectite. An integrated experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5849-5864.	3.9	44
49	Fluorite dissolution at acidic pH: In situ AFM and ex situ VSI experiments and Monte Carlo simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4298-4311.	3.9	33
50	Diffusion of HTO, Br^- , I^- , Cs^+ , $^{85}\text{Sr}^{2+}$ and $^{60}\text{Co}^{2+}$ in a clay formation: Results and modelling from an in situ experiment in Opalinus Clay. <i>Applied Geochemistry</i> , 2008, 23, 678-691.	3.0	80
51	The passivation of calcite by acid mine water. Column experiments with ferric sulfate and ferric chloride solutions at pH 2. <i>Applied Geochemistry</i> , 2008, 23, 3579-3588.	3.0	37
52	The DI-B in situ diffusion experiment at Mont Terri: Results and modeling. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S196-S207.	2.9	34
53	Composition and dissolution kinetics of garnierite from the Loma de Hierro Ni-laterite deposit, Venezuela. <i>Chemical Geology</i> , 2008, 249, 191-202.	3.3	41
54	Interferometric study of pyrite surface reactivity in acidic conditions. <i>American Mineralogist</i> , 2008, 93, 508-519.	1.9	23

#	ARTICLE	IF	CITATIONS
55	Mineralogical alteration and associated permeability changes induced by a high-pH plume: Modeling of a granite core infiltration experiment. <i>Applied Geochemistry</i> , 2007, 22, 17-29.	3.0	28
56	Tracer and reactive transport modelling of the interaction between high-pH fluid and fractured rock: Field and laboratory experiments. <i>Journal of Geochemical Exploration</i> , 2006, 90, 95-113.	3.2	20
57	A fully 3-D anisotropic numerical model of the DI-B in situ diffusion experiment in the Opalinus clay formation. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 531-540.	2.9	36
58	Interaction Between Hyperalkaline Fluids and Rocks Hosting Repositories for Radioactive Waste: Reactive Transport Simulations. <i>Nuclear Science and Engineering</i> , 2005, 151, 128-133.	1.1	21
59	In-situ diffusion of HTO, $^{22}\text{Na}^+$, Cs^+ and I- in Opalinus Clay at the Mont Terri underground rock laboratory. <i>Radiochimica Acta</i> , 2004, 92, 757-763.	1.2	88
60	Comparison between in situ and laboratory diffusion studies of HTO and halides in Opalinus Clay from the Mont Terri. <i>Radiochimica Acta</i> , 2004, 92, 781-786.	1.2	40
61	Simulation of remediation alternatives for a ^{137}Cs contaminated soil. <i>Radiochimica Acta</i> , 2004, 92, .	1.2	6
62	Anisotropic Diffusion in Layered Argillaceous Rocks: A Case Study with Opalinus Clay. <i>Environmental Science & Technology</i> , 2004, 38, 5721-5728.	10.0	150
63	Long-term diffusion experiment at Mont Terri: first results from field and laboratory data. <i>Applied Clay Science</i> , 2004, 26, 123-135.	5.2	95
64	DI-B experiment: planning, design and performance of an in situ diffusion experiment in the Opalinus Clay formation. <i>Applied Clay Science</i> , 2004, 26, 181-196.	5.2	37
65	Diffusion of HTO, $^{36}\text{Cl}^-$ and $^{125}\text{I}^-$ in Opalinus Clay samples from Mont Terri. <i>Journal of Contaminant Hydrology</i> , 2003, 61, 73-83.	3.3	170
66	Modelling of nonreactive tracer dipole tests in a shear zone at the Grimsel test site. <i>Journal of Contaminant Hydrology</i> , 2003, 61, 387-403.	3.3	8
67	Effect of confining pressure on the diffusion of HTO, $^{36}\text{Cl}^-$ and $^{125}\text{I}^-$ in a layered argillaceous rock (Opalinus Clay): diffusion perpendicular to the fabric. <i>Applied Geochemistry</i> , 2003, 18, 1653-1662.	3.0	105
68	Reactive transport modeling of the interaction between a high-pH plume and a fractured marl: the case of Wellenberg. <i>Applied Geochemistry</i> , 2003, 18, 1555-1571.	3.0	56
69	The effect of coupled transport phenomena in the Opalinus Clay and implications for radionuclide transport. <i>Journal of Contaminant Hydrology</i> , 2001, 53, 63-84.	3.3	74
70	The Los Pijiguao bauxite deposit (Venezuela): A compilation of field data and implications for the bauxitization process. <i>Journal of South American Earth Sciences</i> , 2000, 13, 47-65.	1.4	20
71	An advection-diffusion-reaction model of bauxite formation. <i>Journal of Hydrology</i> , 1998, 209, 311-330.	5.4	20
72	Reactive Transport Modelling of the Interaction Between a High pH Plume and a Fractured Marl. <i>Mineralogical Magazine</i> , 1998, 62A, 1427-1428.	1.4	6

#	ARTICLE	IF	CITATIONS
73	A mass transfer model of bauxite formation. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4913-4931.	3.9	27
74	Chemical weathering rate laws and global geochemical cycles. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2361-2386.	3.9	630