Josep M Soler

List of Publications by Year in descending order

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LOSED M SOLED

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Chemical weathering rate laws and global geochemical cycles. Geochimica Et Cosmochimica Acta, 1994, 58, 2361-2386. | 3.9 | 630 |
| 2 | Diffusion of HTO, 36Clâ^ and 125lâ^ in Opalinus Clay samples from Mont Terri. Journal of Contaminant Hydrology, 2003, 61, 73-83. | 3.3 | 170 |
| 3 | Anisotropic Diffusion in Layered Argillaceous Rocks:Â A Case Study with Opalinus Clay. Environmental Science & Technology, 2004, 38, 5721-5728. | 10.0 | 150 |
| 4 | Effect of confining pressure on the diffusion of HTO, 36Clâ^ and 125lâ^ in a layered argillaceous rock (Opalinus Clay): diffusion perpendicular to the fabric. Applied Geochemistry, 2003, 18, 1653-1662. | 3.0 | 105 |
| 5 | Long-term diffusion experiment at Mont Terri: first results from field and laboratory data. Applied Clay Science, 2004, 26, 123-135. | 5.2 | 95 |
| 6 | In-situ diffusion of HTO, 22Na+, Cs+ and I- in Opalinus Clay at the Mont Terri underground rock laboratory. Radiochimica Acta, 2004, 92, 757-763. | 1.2 | 88 |
| 7 | Diffusion of HTO, Brâ^', Iâ^', Cs+, 85Sr2+ and 60Co2+ in a clay formation: Results and modelling from an in situ experiment in Opalinus Clay. Applied Geochemistry, 2008, 23, 678-691. | 3.0 | 80 |
| 8 | The effect of coupled transport phenomena in the Opalinus Clay and implications for radionuclide transport. Journal of Contaminant Hydrology, 2001, 53, 63-84. | 3.3 | 74 |
| 9 | Influence of the flow rate on dissolution and precipitation features during percolation of CO2-rich sulfate solutions through fractured limestone samples. Chemical Geology, 2015, 414, 95-108. | 3.3 | 71 |
| 10 | Reactive transport modeling of the interaction between a high-pH plume and a fractured marl: the case of Wellenberg. Applied Geochemistry, 2003, 18, 1555-1571. | 3.0 | 56 |
| 11 | Interaction between a fractured marl caprock and CO2-rich sulfate solution under supercritical CO2 conditions. International Journal of Greenhouse Gas Control, 2016, 48, 105-119. | 4.6 | 56 |
| 12 | Interaction between CO2-rich sulfate solutions and carbonate reservoir rocks from atmospheric to supercritical CO2 conditions: Experiments and modeling. Chemical Geology, 2014, 383, 107-122. | 3.3 | 45 |
| 13 | Dissolution kinetics of C–S–H gel: Flow-through experiments. Physics and Chemistry of the Earth, 2014, 70-71, 17-31. | 2.9 | 45 |
| 14 | Dissolution kinetics of synthetic Na-smectite. An integrated experimental approach. Geochimica Et Cosmochimica Acta, 2011, 75, 5849-5864. | 3.9 | 44 |
| 15 | Composition and dissolution kinetics of garnierite from the Loma de Hierro Ni-laterite deposit, Venezuela. Chemical Geology, 2008, 249, 191-202. | 3.3 | 41 |
| 16 | Comparative modeling of an in situ diffusion experiment in granite at the Grimsel Test Site. Journal of Contaminant Hydrology, 2015, 179, 89-101. | 3.3 | 41 |
| 17 | Comparison betweenin situand laboratory diffusion studies of HTO and halides in Opalinus Clay from the Mont Terri. Radiochimica Acta, 2004, 92, 781-786. | 1.2 | 40 |
| 18 | DI-B experiment: planning, design and performance of an in situ diffusion experiment in the Opalinus Clay formation. Applied Clay Science, 2004, 26, 181-196. | 5.2 | 37 |

JOSEP M SOLER

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|----|---|------|-----------|
| 19 | The passivation of calcite by acid mine water. Column experiments with ferric sulfate and ferric chloride solutions at pH 2. Applied Geochemistry, 2008, 23, 3579-3588. | 3.0 | 37 |
| 20 | A fully 3-D anisotropic numerical model of the DI-B in situ diffusion experiment in the Opalinus clay formation. Physics and Chemistry of the Earth, 2006, 31, 531-540. | 2.9 | 36 |
| 21 | The DI-B in situ diffusion experiment at Mont Terri: Results and modeling. Physics and Chemistry of the Earth, 2008, 33, S196-S207. | 2.9 | 34 |
| 22 | Fluorite dissolution at acidic pH: In situ AFM and ex situ VSI experiments and Monte Carlo simulations. Geochimica Et Cosmochimica Acta, 2010, 74, 4298-4311. | 3.9 | 33 |
| 23 | Structural changes in C–S–H gel during dissolution: Small-angle neutron scattering and Si-NMR characterization. Cement and Concrete Research, 2015, 72, 76-89. | 11.0 | 32 |
| 24 | Ni Enrichment and Stability of Al-Free Garnierite Solid-Solutions: A Thermodynamic Approach. Clays and Clay Minerals, 2012, 60, 121-135. | 1.3 | 30 |
| 25 | Direct nanoscale observations of the coupled dissolution of calcite and dolomite and the precipitation of gypsum. Beilstein Journal of Nanotechnology, 2014, 5, 1245-1253. | 2.8 | 30 |
| 26 | Mineralogical alteration and associated permeability changes induced by a high-pH plume: Modeling of a granite core infiltration experiment. Applied Geochemistry, 2007, 22, 17-29. | 3.0 | 28 |
| 27 | A mass transfer model of bauxite formation. Geochimica Et Cosmochimica Acta, 1996, 60, 4913-4931. | 3.9 | 27 |
| 28 | The determination of 134Cs and 22Na diffusion profiles in granodiorite using gamma spectroscopy. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 2153-2161. | 1.5 | 27 |
| 29 | Reactive transport modeling of the interaction between water and a cementitious grout in a fractured rock. Application to ONKALO (Finland). Applied Geochemistry, 2011, 26, 1115-1129. | 3.0 | 26 |
| 30 | The role of mineral heterogeneity on the hydrogeochemical response of two fractured reservoir rocks in contact with dissolved CO2. Applied Geochemistry, 2017, 84, 202-217. | 3.0 | 26 |
| 31 | 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 |
| 32 | Experimental and modeling study of the interaction between a crushed marl caprock and CO2-rich solutions under different pressure and temperature conditions. Chemical Geology, 2017, 448, 26-42. | 3.3 | 24 |
| 33 | Interferometric study of pyrite surface reactivity in acidic conditions. American Mineralogist, 2008, 93, 508-519. | 1.9 | 23 |
| 34 | A comparative study of the modelling of cement hydration and cement–rock laboratory experiments. Applied Geochemistry, 2011, 26, 1138-1152. | 3.0 | 22 |
| 35 | Interaction Between Hyperalkaline Fluids and Rocks Hosting Repositories for Radioactive Waste: Reactive Transport Simulations. Nuclear Science and Engineering, 2005, 151, 128-133. | 1.1 | 21 |
| 36 | An advection–dispersion–reaction model of bauxite formation. Journal of Hydrology, 1998, 209, 311-330. | 5.4 | 20 |

JOSEP M SOLER

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| 37 | The Los Pijiguaos bauxite deposit (Venezuela): A compilation of field data and implications for the bauxitization process. Journal of South American Earth Sciences, 2000, 13, 47-65. | 1.4 | 20 |
| 38 | Tracer and reactive transport modelling of the interaction between high-pH fluid and fractured rock: Field and laboratory experiments. Journal of Geochemical Exploration, 2006, 90, 95-113. | 3.2 | 20 |
| 39 | Processes affecting the efficiency of limestone in passive treatments for AMD: Column experiments. Journal of Environmental Chemical Engineering, 2015, 3, 304-316. | 6.7 | 20 |
| 40 | Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20Âyears of field research. Swiss Journal of Geosciences, 2017, 110, 391-403. | 1.2 | 19 |
| 41 | Effect of dissolved H2SO4 on the interaction between CO2-rich brine solutions and limestone, sandstone and marl. Chemical Geology, 2017, 450, 31-43. | 3.3 | 18 |
| 42 | 2D reactive transport modeling of the interaction between a marl and a CO 2 -rich sulfate solution under supercritical CO 2 conditions. International Journal of Greenhouse Gas Control, 2016, 54, 145-159. | 4.6 | 17 |
| 43 | Calcite interaction with acidic sulphate solutions: a vertical scanning interferometry and energy-dispersive XRF study. European Journal of Mineralogy, 2013, 25, 331-351. | 1.3 | 15 |
| 44 | Dissimilatory bioreduction of iron(III) oxides by Shewanella loihica under marine sediment conditions. Marine Environmental Research, 2019, 151, 104782. | 2.5 | 15 |
| 45 | Laboratory-Scale Interaction between CO2-Rich Brine and Reservoir Rocks (Limestone and Sandstone). Procedia Earth and Planetary Science, 2013, 7, 109-112. | 0.6 | 12 |
| 46 | Reactive transport modeling of concrete-clay interaction during 15 years at the Tournemire Underground Rock Laboratory. European Journal of Mineralogy, 2013, 25, 639-654. | 1.3 | 12 |
| 47 | Identifiability of diffusion and retention parameters of anionic tracers from the diffusion and retention (DR) experiment. Journal of Hydrology, 2012, 446-447, 70-76. | 5.4 | 11 |
| 48 | Modeling of Cs+ diffusion and retention in the DI-A2 experiment (Mont Terri). Uncertainties in sorption and diffusion parameters. Applied Geochemistry, 2013, 33, 191-198. | 3.0 | 11 |
| 49 | Two-dimensional reactive transport modeling of the alteration of a fractured limestone by hyperalkaline solutions at Maqarin (Jordan). Applied Geochemistry, 2016, 66, 162-173. | 3.0 | 10 |
| 50 | Reactive transport model of the formation of oxide-type Ni-laterite profiles (Punta Gorda, Moa Bay,) Tj ETQqO 0 (|) rgBT /Ov | erlock 10 Tf 5 |
| 51 | Acid Water–Rock–Cement Interaction and Multicomponent Reactive Transport Modeling. Reviews in Mineralogy and Geochemistry, 2019, 85, 459-498. | 4.8 | 10 |
| 52 | Degradation of mortar under advective flow: Column experiments and reactive transport modeling. Cement and Concrete Research, 2016, 81, 81-93. | 11.0 | 9 |
| 53 | Reactive transport modelling of cement-groundwater-rock interaction at the Grimsel Test Site. Physics and Chemistry of the Earth, 2017, 99, 64-76. | 2.9 | 9 |

| 54 | Modelling of nonreactive tracer dipole tests in a shear zone at the Grimsel test site. Journal of Contaminant Hydrology, 2003, 61, 387-403. | 3.3 |
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JOSEP M SOLER

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|----|--|-----|-----------|
| 55 | Efficiency of magnesium hydroxide as engineering seal in the geological sequestration of CO 2. International Journal of Greenhouse Gas Control, 2016, 48, 171-185. | 4.6 | 8 |
| 56 | Simulation of remediation alternatives for a 137Cs contaminated soil. Radiochimica Acta, 2004, 92, . | 1.2 | 6 |
| 57 | Reactive Transport Modelling of the Interaction Between a High pH Plume and a Fractured Marl. Mineralogical Magazine, 1998, 62A, 1427-1428. | 1.4 | 6 |
| 58 | High-pH plume from low-alkali-cement fracture grouting: Reactive transport modeling and comparison with pH monitoring at ONKALO (Finland). Applied Geochemistry, 2012, 27, 2096-2106. | 3.0 | 5 |
| 59 | Inverse Estimation of the Effective Diffusion of the Filter in the In Situ Diffusion and Retention (DR) Experiment. Transport in Porous Media, 2012, 93, 415-429. | 2.6 | 5 |
| 60 | A single-site reactive transport model of Cs+ for the in situ diffusion and retention (DR) experiment. Environmental Earth Sciences, 2015, 74, 3589-3601. | 2.7 | 5 |
| 61 | The DR-A in-situ diffusion experiment at Mont Terri: Effects of changing salinity on diffusion and retention properties Materials Research Society Symposia Proceedings, 2014, 1665, 63-69. | 0.1 | 4 |
| 62 | Interaction between CO2-rich acidic water, hydrated Portland cement and sedimentary rocks: Column experiments and reactive transport modeling. Chemical Geology, 2021, 572, 120122. | 3.3 | 4 |
| 63 | Flow and reaction along the interface between hydrated Portland cement and calcareous rocks during CO2 injection. Laboratory experiments and modeling. International Journal of Greenhouse Gas Control, 2021, 108, 103331. | 4.6 | 4 |
| 64 | 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 |
| 65 | 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 |
| 66 | Modeling of an in-situ diffusion experiment in granite at the Grimsel Test Site. Materials Research Society Symposia Proceedings, 2014, 1665, 85-91. | 0.1 | 2 |
| 67 | Modelling of Matrix Diffusion in a Tracer Test in Concrete. Transport in Porous Media, 2016, 111, 27-40. | 2.6 | 2 |
| 68 | Reactive transport modelling of a high-pH infiltration test in concrete. Physics and Chemistry of the Earth, 2017, 99, 131-141. | 2.9 | 2 |
| 69 | 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 |
| 70 | Effect of acid mine drainage (AMD) on the alteration of hydrated Portland cement and calcareous sandstone. Applied Geochemistry, 2021, 126, 104900. | 3.0 | 2 |
| 71 | Reactivity of a Marl Caprock in Contact with Acid Solutions under Different pCO2 Conditions (Atmospheric, 10 and 37 Bar). Procedia Earth and Planetary Science, 2017, 17, 528-531. | 0.6 | 1 |

Laboratory-scale Interaction Between CO2-saturated H2SO4-rich Brine and Reservoir Rocks (Limestone) Tj ETQq0 0.0 rgBT /Overlock 10

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| 73 | 15. Acid Water–Rock–Cement Interaction and Multicomponent Reactive Transport Modeling. , 2019, , 459-498. | | Ο |
| 74 | Dissolution kinetics of garnierites from the Falcondo Ni-Laterite deposit (Dominican Republic) under acidic conditions. Applied Geochemistry, 2022, 143, 105357. | 3.0 | 0 |