

Mont Terri Project

Underground Rock Laboratory
Laboratoire souterrain

List of Mont Terri Publications

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(Remarks in red: publications by swisstopo)

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Adler, M., Mäder, U. and Waber, N. (1999) High-pH alteration of argillaceous rocks: an experimental study Schweiz. Mineral. Petrogr. Mitt. 79, 445-454
Alexander, W.R.; Kickmaier, W.; McKinley I.G. and Hugi, M. (2001) In-situ radiochemical studies at Grimsel and Mont Terri. [ABSTRACT] Abstract submitted for APSORC 2001, Japan.
Alheid, H.-J, Knecht, M., Boisson, J-Y., Hommand-Etienne, F. and Pepa, S. (1999) Comparison of in-situ hydraulic and seismic measurements in the excavation damaged zone of underground drifts, Proceedings 9 th International Congress on Rock Mechanics, eds. G. Vouille and P. Berest, 1263-1266, Balkema, Paris.
Alheid, H.-J, Kruschwitz, S., Schuster, K. and Yaramanci, U. (2002) Charakterisierung der Auflockerungszone um Strecken im Opalinuston mit seismischen und geoelektrischen Verfahren Z. Angewandte Geologie (2/2002), 48-55
Alheid, H.J. (2003) Lessons learned in indurated clays. Impact of the Excavation Disturbed or Damaged Zone (EDZ) on the performance of radioactive waste geological repositories: Proceedings of a European Commission CLUSTER conference held in Luxemburg on 3-5 November 2003, 39-49.
Alkan, H., Müller, W. (2008) Approaches for modelling gas flow in clay formations as repository systems Physics and Chemistry of the Earth 33 (2008) S260–S268
Alonso, E. and Hoffmann, Ch. (2007) Modelling the field behaviour of a granular expansive barrier Physics and Chemistry of the Earth 32(2007) 850 – 865, Elsevier
Alonso, E., Springman, S. and Ng, C. W. W. (2008) Monitoring Large-Scale Test for Nuclear Waste Disposal Geotech Geol Eng (2008) 26:817–826 Springer
Alonso, U., Missana, T., Garcia-Gutiérrez, M., Patelli, A., Siitari-Kauppi, M. and Rigato, V. (2009) Diffusion coefficient measurements in consolidated clay by RBS micro-scale profiling Applied Clay Science 43 (2009) 477–484, Elsevier
Altinier, M. V., Savoye, S., Michelot, J. – L., Beaucaire, C., Massault, M., Tessier, D. and Waber, H. N. (2007) The isotopic composition of pore-water from Tournemire argillite (France): An inter-comparison study Physics and Chemistry of the Earth 32(2007) 209 – 218, Elsevier
Amann, F., Button, E. A., Evans, K. F., Gischig, V. S. and Blümel, M. (2011) Experimental Study of the Brittle Behavior of Clay shale in Rapid Unconfined Compression Rock Mech Rock Eng (2011) DOI 10.1007/s00603-011-0156-3 Springer
Amann, F., Kaiser, P. and Button, E. A. (2011) Experimental Study of the Brittle Behavior of Clay shale in Rapid Triaxial Compression Rock Mech Rock Eng (2011) DOI 10.1007/s00603-011-0195-9 Springer
Amayri, S., Buda, R. A., Fröhlich, D., Henrich, J., Klimach, T., Kratz, J. V., Reich, T., Trautmann, N. and Wunderlich, T. (2008) Sorption of Actinides (Th, U, Np, Pu, Am) on Opalinus Clay in synthetic Porewater Institut für Kernchemie, Universität Mainz, D-55099 Mainz, Germany

Publication
<p>Appelo, C. Anthony J. and Wersin, P. (2007) Multicomponent Diffusion Modeling in Clay Systems with Application to the Diffusion of Tritium, Iodide, and Sodium in Opalinus Clay Technical Note TN 2007-14, Mont Terri</p>
<p>Appelo, C. Anthony J., Vinsot, A., Mettler, S. and Wechner, S. (2008) Obtaining the porewater composition of a clay rock by modeling the in- and out-diffusion of anions and cations from an in-situ experiment Journal of Contaminant Hydrology 101 (2008) 67 – 76, Elsevier</p>
<p>Arcos, D., Bruno, J., Pena, J., Turrero, M. J. and Fernandez, A. M. (2002) 1D Reactive Transport Model for the Opalinus Clay at Mont Terri Underground Laboratory International Meeting, December 9 – 12, 2002, Reims, France</p>
<p>Aubourg, C., J.P. Pozzi, L. Sahraoui, (2005) Printing direct and reverse chemical remanent magnetization in claystones at 95°C.</p>
<p>Barpi, F., S. Valente, M. Cravero, G. Labichino, C. Fidelibus (2012) Fracture mechanics characterization of an anisotropic geomaterial Authors thank the Swiss Nuclear Safety Inspectorate ENSI and Dr. Erik Frank for the financial support of the EZ-B experiment in Mont Terri</p>
<p>Bastiaens, W., Bernier, F. and Xiang Ling Li (2007) SELFAC: Experiments and conclusions on fracturing, self-healing and self-sealing processes in clays Physics and Chemistry of the Earth 32(2007) 600 – 615, Elsevier</p>
<p>Bath, A. and Gautschi, A. (2002) Evolution of porewater in the Opalinus Clay at Mont Terri, Switzerland [Abstract]. Clays in natural and engineered barriers for radioactive waste confinement: International meeting, Reims, December 9-12, 2002: Abstracts. Andra, Châtenay-Malabry, 265-266.</p>
<p>Bath, A.H., Pearson, F.J., Gautschi, A. and Waber, H.N. (2001) Water-rock interactions in mudrocks and similar low permeability material Water-Rock Interaction: Proceedings of the tenth international symposium on water-rock interaction WRI-10, Villasimius, Italy 10-15 July 2001 / Ed. R.Cidu, Lisse [et al] 1, 3-12.</p>
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<p>Bossart P. and Beer, Ch. (2006) Wie dicht ist und bleibt Tonstein? Zehn Jahre Modellierung und Forschung im Felslabor Mont Terri in Kanton Jura Forschung und Technik, Sonderdruck Neue Zürcher Zeitung vom 17. Mai 2006</p>
<p>Bossart, P. and Thury, M. (2007) Research in the Mont Terri Rock laboratory: Quo vadis? Physics and Chemistry of the Earth 32 (2007) 19 – 31. Elsevier.</p>

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<p>Bossart, P., Trick, Th., Meier, P.M. and Mayor, J.-C. (2004) Structural and hydrogeological characterisation of the excavation-disturbed zone in the Opalinus Clay (Mont Terri Project, Switzerland). <i>Applied Clay Science</i> 26, 429-448. Elsevier.</p>
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<p>Corkum, A. G. and Martin, C. D. (2007) The mechanical behaviour of weak mudstone (Opalinus Clay) at low stresses <i>International Journal of Rock Mechanics & Mining Sciences</i> 44 (2007) 196 – 209, Elsevier</p>
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<p>Croisé, J., Marschall, P., Matray, J.-M., Tanaka, T. and Vogel, P. (2005) Gas threshold pressure test performed at the Mont Terri Rock Laboratory: Experimental data and analysis. Abstract.- 2nd International Meeting on Clays in natural and engineered barriers for radioactive waste confinement, Tours (France), 14-18th March 2005.</p>
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<p>Croisé, J., Schlickenrieder, L., Marschall, P., Boisson, J.Y., Vogel, P. and Yamamoto, S. (2002) Synthesis of hydrogeological investigations at the Mont Terri rock laboratory [Abstract]. Clays in natural and engineered barriers for radioactive waste confinement: International meeting, Reims, December 9-12, 2002: Abstracts. Andra, Châtenay-Malabry, 157-158.</p>
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<p>De Cannière, P., Schwarzbauer, J., Höhener, P., Lorenz, G., Salah, S., Leupin, O.X. and Wersin, P. Biogeochemical processes in a clay formation <i>in situ</i> experiment: Part C – Organic contamination and leaching data <i>Applied Geochemistry</i> 26 (2011) 967 – 979</p>

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<p>Degueldre, C., Scholtis, A., Laube, A., Turrero, M.J. and Thomas, B. (2003) Study of the pore water chemistry through an argillaceous formation: a paleohydrochemical approach. Applied Geochemistry 18/1, 55-73.</p>
<p>Elie M. & Mazurek, M. (2008) Biomarker transformations as constraints for the depositional environment and for maximum temperatures during burial of Opalinus Clay and Posidonia Shale in northern Switzerland Applied Geochemistry 23 (2008) 3337-3354</p>
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<p>Fernández, A. M., Turrero, M. J., Sánchez-Ledesma, D. M., Yllera, A., Melon, A. M., Sanchez, M., Pena, J., Garralon, A., Rivas, P., Bossart, P. and Hernan, P. (2007) On site measurements of the redox and carbonate system parameters in the low-permeability Opalinus Clay formation at the Mont Terri Rock Laboratory Physics and Chemistry of the Earth 32(2007) 181 – 195, Elsevier</p>
<p>Fernández, A.M., Sánchez-Ledesma, D.M., Tournassat, C., Melón, A., Gaucher, E.C., Astudillo, J., Vinsot, A. Applying the squeezing technique to highly consolidated clayrocks for pore water hermos rization: Lessons learned from experiments at the Mont Terri Rock Laboratory Applied Geochemistry 49 (2014) 2–21, Elsevier</p>
<p>Fernandez-Garcia, D., Gomez-Hernandez, J. J. and Mayor, J.-C. (2007) Estimating hydraulic conductivity of the Opalinus Clay at the regional scale: Combined effect of desaturation and EDZ Physics and Chemistry of the Earth 32(2007) 639 – 645, Elsevier</p>
<p>Freivogel, M. and Huggenberger, P. (2003) Modellierung bilanzierter Profile im Gebiet Mont Terri – La Croix (Kanton Jura). Report of the FOWG, <i>Geology Series, N°4</i> (Switzerland), pp 7-44.</p>
<p>García-Siñeriz, J.-L., Fuentes-Cantillana, J.-L., Mayor, J.-C. and Huertas, F. (2003) Mont-Terri Heater Test: design and preliminary results Clays in natural and engineered barriers for radioactive waste confinement: Experiments in underground laboratories. Reims 2002. ANDRA Science and Technology Series, 118-128.</p>
<p>Gaus, I., Wieczorek, K., Schuster, K., Garitte, B., Senger, R., Vasconcelos, R., Mayor, J. C. (2014) EBS behaviour immediately after repository closure a clay host rock: HE-E experiment (Mont Terri URL) Geological Society, London, Special Publications, first published March 7, 2014; doi 10.1144/SP400.11</p>
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<p>Giger, S.B., Marschall, P., Lanyon, B., Martin, C.D. (2015) Hydro-mechanical response of Opalinus Clay during excavation works – a synopsis from the Mont Terri URL 2015 Ernst & Sohn Verlag für Architektur und technische Wissenschaften GmbH & Co. KG, Berlin Geomechanics and Tunnelling 8 (2015), No. 5</p>

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<p>Gimmi, Th, Leupin, O.X, Eikenberg, J., Glaus, M.A., Van Loon, L.R., Waber, H.N., Wersin, P., Wang, H. A.O., Grolimund, D., Borca, C. N., Dewonck, S., Wittebroodt, Ch. (2014) Anisotropic diffusion at the field scale in a 4-year multi-tracer diffusion and retention experiment – I: Insights from the experimental data</p>
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<p>Horseman, S. T., Harrington, J. F. and Noy, D. J. (2007) Swelling and osmotic flow in a potential host rock Physics and Chemistry of the Earth 32(2007) 408 – 420, Elsevier</p>
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<p>Jockwer, N. and Wieczorek, K. (2002) Untersuchungen zur Gasfreisetzung und Wasserumverteilung im OPALINUS-Ton des Mont Terri. Beitrag zum Projekt: „Heater Experiment: Rock and Bentonite“. Abschlussbericht. Report written in German. GRS – 181, ISBN 3-931995-49-6, May 2002</p>
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<p>Klinkenberg, M., Curtius, H., Neumann, A., Bosbach, D. (2010) Corrosion of research reactor fuel elements in Mont Terri clay pore water – treatment, preparation and identification of secondary phases Journal of Nuclear Materials 304, 182-188 / Journal of Nuclear Materials 321, 1-7</p>
<p>Klinkenberg, M., Kaufhold, S., Dohrmann, R. and Siegesmund, S. (2009) Influence of carbonate microfibrils on the failure strength of claystones Engineering Geology, 107 (2009) 42 – 54. Elsevier.</p>
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