



Articles publiés dans des revues de rang A en 2009

ALBRECHT A. et MIQUEL S. (2009) Extension of sensitivity and uncertainty analysis for long term dose assessment of high level nuclear waste disposal sites to uncertainties in the human behavior, *Journal of Environmental Radioactivity*.

BALLAND C., MOREL J., ARMAND G. et PETTITT W. (2009) Ultrasonic velocity survey in Callovo-Oxfordian argillaceous rock during shaft excavation, *International Journal of Rock Mechanics and Mining Sciences*, 461,69-79.

BORNERT M., VALES F., GHARBI H. et NGUYEN M.D. (2009) Multiscale full-field strain measurements for micromechanical investigations of the hydromechanical behaviour of clayey rocks, *STRAIN*.

BRIGAUD B., DURLET C., DECONINCK J-F., VINCENT B., PUCEAT E., THIERRY J. et TROUILLER A. (2009) Facies and climate, environmental changes recorded on a carbonate ramp: A sedimentological approach on Middle Jurassic carbonates (Paris Basin France), *Sedimentary geology*.

BRIGAUD B., DURLET C., DECONINCK J-F., VINCENT B., THIERRY J. et TROUILLER A. (2009) The origin and timing of multiphase cementation in carbonates: impact of European scale geodynamic events on the middle jurassic limestones diagenesis (Paris Basin France), *Sedimentary geology*.

CALVARUSO C., MARECHAL L., TURPAULT M.P. et LECLERC E. (2009) Rapid clay weathering in the rhizosphere of Norway Spruce and Oak in an acid forest ecosystem, *Soil Science Society of America journal*, 73 11-8.

CALVARUSO C., TURPAULT M.P. UROZ S., LECLERC E., KIES A. et PASCALE F-K. (2009) *Laccaria bicolor* S238N improves Scots pine mineral nutrition by increasing root nutrient uptake from minerals but does not increase mineral weathering, *Plant and soil*.

CHEN. X-T, CHEN W., DAVY C.A., AGOSTINI F., SKOCZYLAS F. et BOURBON X. (2009) Experimental evidence of a moisture clog effect in cement-based materials under temperature, *Cement and Concrete Research*.

CLARET F., LEROUGE C., LAURIOUX T., BIZI M., CONTE E., GHESTEM. JP., WILLE G., SATO T., GAUCHER E., GIFFAUT E. et TOURNASSAT C. (2009) Natural iodine in a clay formation: implications for iodine fate in geological disposals, *Geochimica et Cosmochimica Acta*.

COLLE Claude, MADDOZ-ESCANDE C. et LECLERC E. (2009) Foliar transfer into the biosphere: review of translocation factors to cereal grains, *Journal of Environmental Radioactivity*, 100, 683-689.

CUISINIER O., DENELEE D. et MASROURI F.(2009) Shear strength behaviour of compacted clayey soils submitted to an alkaline plume, *Engineering Geology* 1083-4, 177-188.

DAVY C.A., SKOCZYLAS F., LEBON P. et DUBOIS T. (2009) Gas migration properties through a bentonite, argillite interface, *Applied clay science*, 42, 639-648.

GAILHANOU H., ROGEZ J., VAN MILTENBURG J.C., VAN GENDEREN a., GRENECHE J.M., GILLES C., JALABERT D., MICHAU N., GAUCHER E.C. et BLANC P. (2008) Thermodynamic properties of chlorite CCa-2. Heat capacities heat contents and entropies, *Geochimica et Cosmochimica Acta* 73, 16, 4738-4749.

GANDOUIN E., PONEL P., ANDRIEU-PONEL V., GUITER F., BEAULIEU J.L., DJAMALI,M., FRANQUET E., VAN VLIET-LANOE B., ALVITRE M., MEURISSE M., BROCANDEL M. et BRULHET J. (2009) 10 000 years of vegetation history of the a palaeoestuary St-Omer Basin northern France, *Review of palaeobotany and palynology*, 156, 3-4, 307-318.

GAUCHER E.C., TOURNASSAT C., PEARSON F.J., BLANC P., CROUZET C., LEROUGE C. et ALTMANN S. (2009) A robust model for pore-water chemistry of clayrock, *Geochimica et Cosmochimica Acta*, 73, 21, 6470-6487.

GHORBANI A., COSENZA P., REVIL A., ZAMORA M.,SCHMUTZ M., FLORSCH N. et JOUGNOT D. (2009) Non-invasive monitoring of water content and textural changes in clay-rocks using spectral induced polarization: a laboratory investigation, *Applied clay science* 43, 3-4, 493-502.

GUEGUEN Y. et SAROUT J. (2009) Crack-induced anisotropy in crustal rocks: Predicted dry and fluid-saturated Thomsen's parameters, *Physics of the earth and planetary interiors*, 172,1-2, 116-124.

GUERY A., CORMERY F.,SHAO J.F. et KONDO D.(2009) Application of a micromechanical model to cavity excavation analysis in argillite, *International journal of Rock Mechanics and Mining Sciences*, 46,5, 905-917.

GUEUTIN P., DE GREEF V., GONCALVES J., VIOLETTE S. et CHANCHOLE S. (2009) Experimental device for chemical osmosis measurement on natural clay-rock samples maintained at in situ conditions: Implications for formation pressure interpretations, *Journal of colloid and interface science*, 337, 106-116.

HODGKINSON D., BENABDERRAHMANE H., ELERT M., HAUTOJARVI A., SELROOS J.O., TANAKA Y. et UCHIDA M. (2009) An overview of task 6 of the Aspo Task Force: modelling groundwater and solute transport: improved understanding of radionuclide in fractured rock, *Hydrogeology Journal*, 17, 5, 1035-1049.

HUIBAN Y., NOIREZ S., PRINZHOFER A., GIRARD J.P., CHAPPELLAZ J. (2009) Chemical and isotopic analysis of hydrocarbon gas at trace levels: methodology and results, *Chemical Geology*, 265, 3-4, 363-368.

JARDAT M., DUFRECHE J.F., MARRY V., ROTENBERG B. et TURQ P. (2009) Salt exclusion in charged porous media: a coarse-graining strategy in the case of montmorillonite clays, *PCCP. Physical chemistry chemical physics*, 11, 2023-2033.

JORDAN N., LOMENECH C., MARMIER N., GIFFAUT E. et EHRHARDT J.J. (2009) Sorption of selenium (IV) onto magnetite in the presence of silicic acid, *Journal of colloid and interface science*, 329, 17-23.

JORDAN N., MARMIER N., LOMENECH C., GIFFAUT E. et EHRHARDT J.J. (2009) Competition between selenium (IV) and silicic acid on the hematite surface, *Chemosphere*, 75, 1, 129-134.

JOUGNOT D., REVIL A. et LEROY P. (2009) Diffusion of ionic tracers in the Callovo-Oxfordian clay-rock using the Donnan equilibrium model and electrical formation factor, *Geochimica et Cosmochimica Acta*, 73, 102712-2726.

MARTY N., TOURNASSAT C., BURNOL A., GIFFAUT E. et GAUCHER E.C. (2009) Influence of reaction kinetics and mesh refinement in the numerical modelling of concrete-clay interactions, *Journal of hydrology*, 364 58-72.

MELKIOR T., GAUCHER E.C., BROUARD C., YAHIAOUI S., THOBY D., CLINARD F. W. J., CLINARD C., FERRAGE E., GUYONNET D., TOURNASSAT C. et COELHO D. (2009) Na⁺ and HTO diffusion in compacted bentonite. Effect of surface chemistry and related texture, *Journal of hydrology*, 3701-49-20.

MONTAVON G., GUO Z., TOURNASSAT C., GRAMBOW B. et LE BOTLAN D. (2009) Porosities accessible to HTO and iodide on water-saturated compacted clay materials and relation with the forms of water: a low field proton NMR study, *Geochimica et Cosmochimica Acta*.

PIRONON J., DE DONATO P., BARRES O., GARNIER C., CAILTEAU C., VINSOT A. et RADILLA G. (2009) On-line greenhouse gas detection from soils and rock formations, *ENERGY PROCEDIA*, 2375-2382.

POYET S. (2009) Experimental investigation of the effect of temperature on the first desorption isotherm of concrete, *Cement and Concrete Research*, 3911, 1052-1059.

PRINZHOFER A., GIRARD J.P., BUSCHAERT S., HUIBAN Y. et NOIREZ S. (2009) Chemical and isotopic characterisation of hydrocarbon gas traces in porewater of very low permeability rocks: the example of the Callovo-Oxfordian argillites of the eastern part of the Paris Basin, *Chemical Geology*, 260, 3-4, 269-277.

ROGER G., DURAND VIDAL S., BERNARD O. et TURQ P. (2009) Electrical conductivity of mixed electrolytes: Modeling within the mean spherical approximation, *Journal of physical chemistry B*, 113, 8670-8674.

- ROTENBERG B., MOREL J-P., MARRY V., TURQ P. et MOREL-DESROSIERS N. (2009) On the driving force of cation exchange in clays: Insights from combined microcalorimetry experiments and molecular simulation, *Geochimica et cosmochimica acta*, 73, 14, 4034-4044.
- ROTENBERG B., PAGONABARRAGA I. et FRENKEL D (2009) Coarse-grained simulations of charge current and flow in heterogeneous media, *Faraday discussions of the Royal Society of Chemistry*, 144, 223-243.
- SAROUT J., JERJANI M. et GUEGUEN Y.(2009) A semi-automatic processing technique for elastic-wave laboratory data *Ultrasonics*, 49, 452-458.
- SCHOLTUS N., LECLERC E., DE DONATO P., MOREL J.L. et SIMONNOT M.O.(2009) Eluto-frontal chromatography to simulate chemical weathering of CO_x by low-molecular-weight organic compounds and early pedogenesis processes, *Soil science*, 60, 71-83.
- TOURNASSAT C., CHAPRON Y., LEROY P., BIZI M. et BOULAHYA F.(2009) Comparison of molecular dynamics simulations with triple layer and modified Gouy-Chapman models in a 0.1 M NaCl-montmorillonite system, *Journal of colloid and interface science*, 339,2, 533-541.
- TOURNASSAT C., GAILHANOU H., CROUZET C., BRAIBANT G., GAUTIER A. et GAUCHER E.C. (2009) Cation exchange selectivity coefficient values on smectite and mixed-layer illite, smectite minerals, *Soil Science Society of America journal*, 73, 3, 928-942.
- TRUCHE. L, BERGER G., DESTRIGNEVILLE. C., PAGES P., GUILLAUME D., GIFFAUT E. et JACQUOT E. (2009) Experimental reduction of aqueous sulphate by hydrogen under hydrothermal conditions: implication for nuclear waste storage, *Geochimica et Cosmochimica Acta*, 73, 16, 4824-4835.
- VARGA B., LECLERC E. et ZAGYVAI P. (2009) The role of analogues in radioecology, *Journal of Environmental Radioactivity*, 100, 802-805.
- VIEILLARD P. et MATHIEU R. (2009) A predictive model for the enthalpies of hydration of zeolites, *American Mineralogist*, 94, 565-577.