



Articles publiés dans des revues de rang A en 2003

ADLER P.M., MITYUSHEV V. V., (2003), Effective medium approximation and exact formulas for electrokinetic phenomena in porous media, *J. Phys.*, 36, 391-404.

BENDHAMANE M., LANGLAIS M., SAAD M., (2003), On some anisotropic reaction-diffusion systems with data modeling the propagation of an epidemic disease, *Nonlinear Analysis series A, theory and methods*, 54, 617-636.

BOGDANOV I.I., MOURZENKO V.V., THOVERT J.F., ADLER P.M., (2003), Effective permeability of fractured porous media in steady-state flow, *Water Resources Research*, 39, 1, SBH 13. 1-16.

BOGDANOV I.I., MOURZENKO V.V., THOVERT J.F., ADLER P.M., (2003), Pressure drawdown well tests in fractured porous medi, *Water Resources Research*, 39, 1, SBH 11 - 1-19.

BONHOURE I., WIELAND E., SCHEIDEGGER A.E., OCHS M., KUNZ D., (2003), EXAFS Study of SN(IV) - Immobilization by hardened cement paste and calcium silicates hydrates, *Environmental Science and Technology*, 37, 10, 2184-2191.

BOURG I., BOURG A., SPOSITO G., (2003), Modeling diffusion and adsorption in compacted bentonite : a critical review, *Journal of Contaminant Hydrology*, 61, 293-302.

BOURGEAT A., CHECHKIN G., PIATNITSKI A., (2003), Singular double porosity model, *Applicable analysis*, 82, 2, 103-116.

BOURGEAT A., JURAK M., PIATNITSKI A., (2003), Averaging a transport equation with small diffusion ans oscillating velocity, *Mathematical methods Applied Sciences*, 26, 95-117.

BOURGEAT A., MIKELIC A., PIATNITSKI A., (2003), On the double porosity model of a single phase flow in random media, *Asymptotic analysis*, 34, 3-4, 311-332.

CHAZOT G., BERTRAND H., MERGOIL J., SHEPPARD S.M.F., (2003), Mingling of immiscible dolomite carbonatite and trachyte in tuffs from the Massif Central, France, *Journal of petrology*, 44, 10, 1917-1936.

CLARET F., SCHAFER T., BAUER A., BUCKAU G., (2003), Generation of humic and fulvic acid from Callovo-Oxfordian clay under high alkaline conditions, *Science of the total environnement*, 317, 189-200.

COPPIN F., CASTET S., BERGER G., LOUBET M., (2003), Microscopic reversibility of Sm and Yb sorbed on to smectite and kaolinite : an experimental evidence, *Geochimica et Cosmochimica Acta*, 67, 2215-2227.

DENYS S., ECHEVARRIA G., FLORENTIN L., LECLERC-CESSAC E., MOREL J.L., (2003), Availability of 99Tc in undisturbed soil cores, *Journal of Environmental Radioactivity*, 70, 1-2, 115-127.

DESCHAMPS P., DOUCELANCE R., GHALEB B., MICHELOT J.L., (2003), Further investigations on optimized tail correction and high-precision measurement of uranium isotopic ratios using multi-collector ICP-MS, *Chemical Geology*, 201, 141-160.

ECHEVARRIA G., MOREL J.L., FLORENTIN L., LECLERC-CESSAC E., (2003), Influence of climatic conditions, soil type and plant physiology on 99TcO₄- uptake by crops, *Journal of Environmental Radioactivity*, 70, 1-2, 85-99.

ECHEVARRIA G., VONG P.C., MOREL J.L., (2003), Effect of NO₃- on the fate of TcO₄ - in the soil plant system, *Journal of Environmental Radioactivity*, 38, 2, 163-171.

GERAUD Y., SURMA F., MAZEROLLE F., (2003), Porosity and fluid flow characterisation of granite material by capillary test under tomodensitometry RX, *Journal de la société géologique de Londres*, 215, 95-105.

GUILLAUME D., NEAMAN A., CATHELINEAU M., MOSSER-RUCK R., PEIFFERT C., ABDELMOULA M., DUBESSY J., VILLIERAS F., BARONNET A., MICHAU N., (2003), Experimental synthesis of chlorite from smectite at 300°C in the presence of metallic iron, *Clay Minerals*, 38, 3, 281-302.

GUITER F., ANDRIEU-PONEL V., DE BEAULIEU J.L., CHEDDADI R., CALVEZ M., PONEL P., REILLE M., KELLER T., GOEURY C., (2003), The last climatic cycles in western Europe, a comparison between long continuous lacustrine sequences from France and other terrestrial records, *Quaternary International*, 111, 59-74.

HANS J., BOULON M., (2003), A new device for investigating the hydro-mechanical properties of rock joints, *Int. Journal Num & Anal. Method in Geomechanics*, 27, 513-548.

HELLMANN R., PENISSON J.M., HERVIG R.L., THOMASSIN J.H., ABRIOUX M.F., (2003), An EFTEM/HRTEM high resolution study of the near surface of labradorite feldspar altered at acid pH : evidence for interfacial dissolution-reprecipitation, *Physics and Chemistry of Minerals*, 30, 192-197.

HUNSDORFER W., JAFFRE J., (2003), Implicit-explicit time stepping with spatial discontinuous finite elements, *Applied Numerical Mathematics*, 45, 231-253.

LEGONIDEC Y., CONIL F., GIBERT D., (2003), The wavelet response as a multiscale NDT method, *Ultrasonics*, 41, 478-497.

MARTY B., DEWONCK S., FRANCE-LANORD C., (2003), Geochemical evidence for efficient aquifer isolation over geological timeframes, *Nature*, 425, 55-58.

MIKELIC A., (2003), On a averaged model for the 2 fluid immiscible flow with surface tension in a thin domaine, Computational Geosciences, 7, 183-196.

MOYNE C., MURAD M., (2003), Macroscopic behaviour of swelling porous media derived from micromechanical analysis, Transport in porous media, 50, 127-151.

NEAMAN A., GUILLAUME D., PELLETIER M., VILLIERAS F., (2003), The evolution of textural properties of Na/Ca-bentonite following the hydrothermal treatment at 80 and 300°C in the presence of iron and/or iron oxides, Clay Minerals, 38, 213-223.

NEAMAN A., PELLETIER M., VILLIERAS F., (2003), The effects of exchanged cation, compression, heating and hydration on textural properties of bulk bentonite and its corresponding purified montmorillonite, Applied clay science, 22, 153-168.

PALUT J.M., MONTARNAL P., GAUTSCHI A., TEVISSEN E., MOUCHE E., (2003), Characterisation of HTO Diffusion properties by In-situ Tracer experiment in Opalinus clay at Mont Terri, Journal of Contaminant Hydrology, 61, 203-218.

PARDOUX E., PIATNITSKI A., (2003), Homogenization of a nonlinear random parabolic partial differential equation, Stochastic Process. Appl., 104, 1-27.

PELLENARD P., DECONINCK J.F., HUFF W.D., THIERRY J., MARCHAND D., FORTWENGLER D., TROUILLER A., (2003), Characterisation and correlation of Upper Jurassic (Oxfordian) bentonite deposits of the Paris basin and the South-Eastern basin of France, Sedimentology, 50, 1035-1060.

PESSEL M., GIBERT D., (2003), Multiscale electrical impedance tomography, Journal of Geophysical Research, 108, B1, 2054.

PINEL F., LECLERC-CESSAC E., STAUNTON S., (2003), Relative contributions of soil chemistry, plant physiology and rhizosphere induced changes in speciation on Ni accumulation in plant shoots, Plant and Soil, 255, 619-629.

ROSANNE M., MAMMAR M., KOUDINA N., PRUNET-FOCH B., THOVERT J.F., TEVISSEN E., ADLER P.M., (2003), Transport properties of compact clays. II diffusion, Journal of colloid and interface science, 260, 195-203.

ROSANNE M., PASZKUTA M., TEVISSEN E., ADLER P.M., (2003), Thermodiffusion in compact clays, Journal of colloid and interface science, 267, 194-203.

ROUSSET D., CLAUER N., (2003), Discrete clay diagenesis in a very low permeable sequence constrained by an isotopic (K-Ar and Rb-Sr) study, Mineralogy and petrology, 145, 182-198.

SAUVAGE F., LANGLAIS M., YOCOZ N-G., PONTIER D., (2003), Modelling Hantavirus in cyclic bank voies : the role of indirect transmission on virus persistence, Journal of Animal Ecology, 72, 1, 1-13.

SIMONOFF M., KIJHNAIK T.V., SERGEANT C., VESVRES M.H., PRAVIKOFF M., LECLERC-CESSAC E., ECHEVARRIA G., DENYS S., (2003), Technetium species induced in maize

as measured by phosphorimager, Journal of Environmental Radioactivity, 70, 1-2, 139-154.

TALAY D., VAILLANT O., (2003), A stochastic particle method with random weights for the computation of statistical solutions of McKean-Vlasov equations, Annales Appl. Probab., 13, 1, 140-180.

TOURNASSAT C., NEAMAN A., VILLIERAS F., BOSBACH D., CHARLET L., (2003), Nanomorphology of montmorillonite particles : Estimation of the clay edge sorption site density by low-pressure gas adsorption and AFM observations, American Mineralogist, 88, 1989-1995.