

1. ABABOU R., VALERA I.C., POUTREL A., Macro-permeability distribution and anisotropy in a 3D fissured and fractured clay rock : EDZ' around a cylindrical drift in Callovo-Oxfordian argillite (Bure), *Physics and chemistry of the earth*, 36, 1922-1931
2. ALTMANN S., TOURNASSAT C., GOUTELARD F., PARNEIX J.C., GIMMI T., MAES N., Diffusion-driven transport in clayrock formations, *Applied Geochemistry*, 75, 23, 7566-7584
3. ARSON C., GATMIRI B., Numerical study of damage in unsaturated geological and engineering barriers, *Physics and chemistry of the earth*, 36, 1981-1989
4. BAECHLER S., LAVANCHY J-M., ARMAND G., CRUCHAUDET M., Characterisation of the hydraulic properties within the EDZ around drifts at level - 490 m of the Meuse/Haute-Marne URL: A methodology for consistent interpretation of hydraulic tests, *Physics and chemistry of the earth*, 36, 16922-1931
5. BATTANI A., SMITH T., ROBINET J.C., BRULHET J., LAVIELLE B., COELHO D., Contribution of logging to understanding helium porewater data across the Mesozoic sequence of the East of the Paris Basin, *Geochimica et Cosmochimica Acta*, 75, 7566-7584
6. BETELU S., POLYCHRONOPOULOU K., REBHOLZ C., IGNATIADIS I., Novel CeO₂ based screen-printed potentiometric electrodes for pH monitoring, *Talanta*, 87, 126-135
7. BLAISE T., IZART A., MICHELS R., CATHELINÉAU M., SUAREZ-RUIZ Isabel, LANDREIN P., Vertical and lateral changes in the organic matter from the Mesozoic sediments from the eastern Paris Basin (France) : variability of source and burial history, *International Journal of Coal Geology*, 88, 2-3, 173-178
8. BLANCO MARTIN L., HADJ-HASSEN F., TIJANI M., ARMAND G., New numerical modeling of the mechanical long-term behavior of the GMR gallery in Andra's underground research laboratory, *Physics and chemistry of the earth*, 36, 1872-1877
9. BOURDOISEAU, J-A., JEANNIN M., REMAZEILLES C., SABOTA R., REFAIT P., The transformation of mackinawite into greigite studied by Raman spectroscopy, *JOURNAL OF RAMAN SPECTROSCOPY*, 42, 496 - 504
10. BYTWERK D., LIMER D., ALBRECHT A., MARANG L., SMITH G., THORNE M., Sources and significance of variation in the dose estimates of ³⁶Cl biosphere transfer models: a model intercomparison study, *Journal of radiological protection*, 31, 63-82
11. CAILTEAU C., PIRONON J., DE DONATO P., VINSOT A., FIERZ T., GARNIER C., BARRES O., In situ gas monitoring in clay rocks: Mathematical developments for CO₂ and CH₄ partial pressure determination under non-controlled pressure conditions using FT-IR sensors, *Analytical methods*, 3, 888-895
12. CAILTEAU C., PIRONON J., DE DONATO P., VINSOT A., FIERZ T., GARNIER C., BARRES O., FT-IR metrology aspects for on-line monitoring of CO₂ and CH₄ in underground laboratory conditions, *Analytical methods*, 3, 877-887
13. CROISE J., MAYER G., TALANDIER J., WENDLING J., Impact of water consumption and saturation dependent corrosion rate on hydrogen generation and migration from an intermediate level radioactive waste repository, *Transport in porous media*, 90, 1, 59-75
14. DEHOUX A., BOUCHELAGHEM F., BERTHAUD Y., NEFF D., L'HOSTIS V., Micro-mechanical study of corrosion products' layers. Part I: experimental characterization, *Corrosion science*, 54, 52-59
15. ENSSLE C.P., CROISE J., POLLER A., MAYER G., WENDLING J., Full scale 3D modeling of the coupled gas migration and heat dissipation in a planned repository for radioactive waste in the Callovo-Oxfordian clay, *Physics and chemistry of the earth*, 36, 1754-1769
16. ENSSLE C.P., CRUCHAUDET M., CROISE J., BROMMUNDT J., Determination of the permeability of the Callovo-Oxfordian clay at the metre to decametre scale, *Physics and chemistry of the earth*, 36, 1669-1678

17. FOURRE E., JEAN-BAPTISTE P., DAPOIGNY A., LAVIELLE B., SMITH T., THOMAS B., VINSOT A., Dissolved helium distribution in the oxfordian and dogger deep aquifers of the Meuse/Haute-Marne area, *Physics and chemistry of the earth*, 36, 1511-1520
18. GARCIA M., RABAUTE A, YVEN B., GUILLEMOT D., Multivariate and spacial statistical analysis of Callovo-Oxfordian physical properties from lab and borehole logs data towards a characterization of lateral and vertical spatial trends in the Meuse, Haute-Marne transposition zone, *Physics and chemistry of the earth*, 36, 1469-1485
19. GENET A, WERNSDORFER H., JONARD M., PRETZSCH H., RAUCH C., PONETTE Q., NYS C., LEGOUT A., RANGER J., VALLET G., SAINT-ANDRE L., Ontogeny partly explains the apparent heterogeneity of published biomass equations for *Fagus sylvatica* in central Europe, *Forest ecology and management*, 261, 7, 1188-1202
20. GIOT R., GIRAUD A., AUVRAY C., HOMAND F., GUILLON T., Fully coupled poromechanical back analysis of the pulse test by inverse method, *INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS*, 35, 329 - 359
21. HAWKINS I.R., SWIFT B., HOCH A., WENDLING J., Comparing flows to a tunnel for single porosity, double porosity and discrete fracture representations of the EDZ, *Physics and chemistry of the earth*, 36, 1990-2002
22. HERZOG G.F, ALBRECHT A., MA P., FINK D., KLEIN J., MIDDLETON R, BOGARD D., NYQUIST L.E., SHIH C.Y., GARRISON D.H., REESE R.C, MASARIK J., REEDYR.C., RUGEL G., FAESTERMANN T., KORSCHINEK G., Cosmic-ray exposure history of the Norton country enstatite achondrite, *Meteorics & Planetary Science*, 46, 2, 284-310
23. HOCH A., WENDLING J., Migration of gases around a cell containing high-activity vitrified wastes during the operational phase, *Physics and chemistry of the earth*, 36, 1743-1753
24. HOLMEN J., BENABDERRAHMANE H., BUORO A., BRULHET J., Modelling of permafrost freezing and melting and the impact of a climatic cycle on groundwater flow at the Meuse/Haute-Marne site, *Physics and chemistry of the earth*, 36, 1531-1538
25. HURET E., THIESSON J., TABBAGH A., GALBURN B., COLLIN P.Y., Improvement of cyclostratigraphic studies by processing of high resolution magnetic susceptibility logging: example of PEP1002 borehole (Bure, Meuse, France, *Comptes-Rendus de l'Académie des Sciences*, 343, 6, 379-386
26. KOROLEVA M., LEROUGE C., MADER U., CLARET F., GAUCHER E., Biogeochemical processes in a clay formation in-situ experiment: Part-B Insights and data from the overcoring of a microbially perturbed in situ-pore water chemistry experiment - evidence of strong buffering by the rock formation, *Applied Geochemistry*, 26, 6, 954-966
27. LADAQUI W., VIDAL O., SELIER A., BOURBON X., Effect of a temperature change from 20 to 50° C on the basic creep of HPC and HPFRC, *Materials and Structures*, on line
28. LANDAIS P., ARANYOSSY J-F., Clays in natural and engineered barriers for radioactive waste confinement, *Physics and chemistry of the earth*, 36, 1437
29. LAVASTRE V., ADER M., BUSCHAERT S., PETIT E. JAVOY M., Water circulation control on carbonate $\delta^{18}\text{O}$ records in a low permeability clay formation and surrounding limestones: the Upper Dogger - Oxfordian sequence from the eastern Paris basin, France, *Applied Geochemistry*, 26, 5, 818-827
30. LEROUGE C., GRANGEON,S., GAUCHER,E.C., TOURNASSAT,C., AGRINIER,P., GUERROT,C., WIDORY,D., FLEHOC,C., RAMBOZ,C., VINSOT,A., BUSCHAERT,S.,Mineralogical and isotopic record of biotic and abiotic diagenesis of the Callovo-Oxfordian clayey formation of Bure (France), *Geochimica et Cosmochimica Acta*, 75, 10, 2633-2663
31. LIBOUREL G., VERNEY-CARRON A., MORLOK A., GIN S., STERPENICH J., NEFF D., DILLMANN P., The use of natural or archeological analogues for understanding the long-term behavior of nuclear glasses, *CR GEOSCIENCES*, 343, 2-3, 237-245

32. LINARD Y., VINSOT A., VINCENT B., DELAY J., WECHNER S., DE LA VAISSIERE R., SCHOLZ E., GARRY B., LUNDY M., CRUCHAUDET M., DEWONCK S., VIGNERON G., Water flow in the Oxfordian and Dogger limestone around Meuse/Haute-Marne Underground Research, *Physics and chemistry of the earth*, 36, 1450-1468
33. LOFFREDO,N., MOUNIER,S., THIRY,Y., COPPIN,F., Sorption of selenate on soils and pure phases: kinetic parameters and stabilization, *Journal of Environmental Radioactivity*, 102, 843-851
34. MARI J.L., GAUDIANI P., DELAY J., Characterization of geological formations by physical parameters obtained through full waveform acoustic logging, *Physics and chemistry of the earth*, 36, 1438-1449
35. MARTY N., CAMA J., SATO T., CHINO K., VILLIERAS F., RAZAFITIANAMAHARAVO A., BRENDLE J., GIFFAUT E., SOLER J.M., GAUCHER E.C., TOURNASSAT C., Dissolution kinetics of synthetic Na-smectite. An integrated experimental approach, *Geochimica et Cosmochimica Acta*, 75, 20-5849-5864
36. MAZUREK M., ALT-EPPING P., BATH A., GIMMI T., WABER H.N., BUSCHAERT S., DE CANNIERE P., DE CRAEN M., GAUTSCHI A., SAVOYE S., VINSOT A., WOUTERS L., Natural tracer profiles across argillaceous formations, *Applied Geochemistry* , 26, 7, 1035-1064
37. MILLOT R., GUERROT C., INNOCENT C., NEGREL P., SANJUAN B., Chemical multi-isotopic (Li-B-Sr-U-H-O) and thermal characterization of Triassic formation waters from the Paris Basin, *Chemical Geology*, 283, 226-241
38. MOHAJERANI M., DELAGE P., MONFARED M., TANG AM., SULEM J., GATMIRI B., Oedometric compression and swelling behavior of the Callovo-Oxfordian argillite, *International Journal of Rock Mechanics and Mining Sciences*, 48, 4, 606-615
39. NEEWAY J., ABDELOUAS A., GRAMBOW B., SCHUMACHER S., Dissolution mechanism of the SON68 reference nuclear waste glass: new data in dynamic system in silica saturation conditions, *Journal of Nuclear Materials*, 415, 1-1, 31-37
40. PEARSON F.J., TOURNASSAT C., GAUCHER E., Biogeochemical processes in a clay formation in-situ experiment: Part E - Equilibrium controls on chemistry of pore water from opalinus clay Mont Terri underground laboratory Switzerland, *Applied Geochemistry*, 26, 6, 990-1008
41. PHERON, X.OUERDANE,Y. GIRARD,S. TORTECH, B. DELEPINE-LESOILLE, S. BERTRAND, Y.SIKALI MAMDEM, Y. BOUKENTER, A. UV irradiation influence on stimulated Brillouin scattering in photosensitive optical fibers, *ELECTRONICS LETTERS*, 47,2, 132-133
42. POLLER A., ENSSLE C.P., MAYER G., CROISE J., WENDLING J., Repository-scale modeling of the long term hydraulic perturbation induced by gas and heat generation in a geological repository for high and intermediate level radioactive waste: Methodology and example of application, *Transport in porous media*, 90, 1, 77-94
43. POPPEI J., MAYER G., HUBSCHWERLEN N., PEPIN G., WENDLING J., Estimation of humidity during tunnel ventilation supported by tough2 calculations of liquid, vapor, and heat transport, *Nuclear Technology*, 174, 317-326
44. RANAIVOMANANA H., VERDIER J., SELIER A., BOURBON X., Toward a better comprehension and modeling of hysteresis cycles in the water sorption-desorption process for cement based materials, *Cement and Concrete Research*, 41, 8, 817-827
45. REBEIX R., LE GAL LA SALLE C., MICHELOT J-P., VERDOUX P., NORET A., MONTVOISIN G., GIANESINI S., L., LANCELOT J., Tracing the origin of water and solute transfers in deep groundwater from Oxfordian, Dogger and Trias formations in the east of the Paris Basin, France, *Physics and chemistry of the earth*, 36, 1496-1510
46. REDON P.O., ABDELOUAS A., BASTVIKEN D., CECCHINI S., ULRICH E., THIRY Y., Chloride and organic chlorine in forest oils: storage, residence times and influence of ecological conditions, *Environmental Science & Ttechnology*, 45, 7202-7208

47. RICHARD L., GAONA X., Thermodynamic properties of organic iodine compounds, *Geochimica et Cosmochimica Acta*, 75, 7304-7350
48. SAHEB M, NEFF D., BATAILLON C., FOY E., DILLMANN P., Copper tracing to determine the micrometric electronic properties of a thick ferrous corrosion layer formed in an anoxic medium, *Corrosion Science*, 53, 6, 2201-2207
49. SAHEB M, NEFF D., BELLOT-GURLET L., DILLMANN P, Raman study of a deuterated iron hydroxycarbonate to assess long-term corrosion mechanisms in anoxic soils, *JOURNAL OF RAMAN SPECTROSCOPY*, 2011, 42, 1100 - 1108
50. SAVOYE S., GOUTELARD F., BEUCAIRE C., CHARLES Y., FAYETTE M., HERBETTE M., LARBY Y., COELHO D., Effect of temperature on the containment properties of argillaceous rocks: the case study of Callovo-Oxfordian claystones, *Journal of Contaminant Hydrology*, 125, 1, 102-112
51. SCHAFER T., HUBER F., SEHER H., MISSANA T., ALONSO U., KUMKE M., EIDNER S., CLARET F., ENZMANN F., Nanoparticles and their influence on radionuclide mobility in deep geological formations, *Applied Geochemistry*, 27,2, 390-403
52. SHAO H., SONNKE J., MOREL J., KRUG S., In situ determination of anisotropic permeability of clay, *Physics and chemistry of the earth*, 36, 1688-1692
53. SOULEY M., ARMAND G., SU K., GHOREYCHI M., Modeling the viscoplastic and damage behavior in deep argillaceous rocks, *Physics and chemistry of the earth*, 36, 1949-1959
54. SUZUKI T., VANDENBORRE J., ABDELOUAS A., GRAMBOW B., Solution controls for dissolved silica at 25, 50 and 90_C for quartz, Callovo-Oxfordian claystone, illite and MX80 bentonite, *Physics and chemistry of the earth*, 36, 1648-1660
55. TANG C.S., TANG A.M., CUI Y.J., DELAGE P., SCHROEDER C., DE LAURE E., Investigating the swelling pressure of compacted crushed Callovo-Oxfordian claystone, *Physics and chemistry of the earth*, 36, 1857-1866
56. TOURNASSAT C., ALT-EPPING P., GAUCHER E., GIMMI T., LEUPIN X.O., WERSIN P., Biogeochemical processes in a clay formation in-situ experiment: Part F - Reactive transport modeling, *Applied Geochemistry*, 26, 6, 1009-1022
57. TOURNASSAT C., APPELO C.A.J., Modelling approaches for anion-exclusion in compacted Na-bentonite, *Geochimica et Cosmochimica Acta*, 75, 13-1, 3698-3710
58. TOURNASSAT C., BIZI M., BRAIBANT G., CROUZET C., Influence of montmorillonite tactoid formation on Na-Ca cation exchange reactions, *Journal of Colloid and Interface Science*, 364,2, 1009-1022
59. TREILLE E., WENDLING J., PLAS F., Simulation of gas transfer at the scale of a disposal cell in the context of high-level and long-lived radwaste disposal in a deep clay formation during the operating phase, *Nuclear Technology*, 174, 353-363
60. TROTIGNON L., THOUVENOT P., MUNIER I., COCHEPIN B., PIAULT E., TREILLE. E, BOURBON X., MIMID S., Numerical simulation of atmospheric carbonation of concrete components in a deep geological radwaste disposal site during operating period, *Nuclear Technology*, 174, 424-437
61. VIEILLARD P., BLANC P., FIALIPS C.I., GAILHANOU H., GABOREAU C., Hydration thermodynamic of the SWy-1 montmorillonite saturated with alkali and alkaline-earth cations: a predictive model, *Geochimica et Cosmochimica Acta*, 75, 19-1, 5664-5685
62. VINSOT A., DELAY J., DE LA VAISSIERE R., CRUCHAUDET M., Pumping tests in a low permeability rock : Results and interpretation of a four-year long monitoring of water production flow rates in Callovo-Oxfordian argillaceous rock, *Physics and chemistry of the earth*, 36, 1679-1687
63. WERSIN P., LEUPIN X.O., METTLER S., GAUCHER E., MADER U., VINSOT A., DE CANNIERE P., GABLER H.E., KUNIMARO T., KIHU K., Biogeochemical processes in a clay formation in-situ

experiment: Part A -Overview experimental design and water data, Applied Geochemistry, 26, 6, 931-953

64. WERSIN P., STROES-GASCOYNE S., PEARSON F.J., TOURNASSAT C., LEUPIN X.O., SCHWYN B., Biogeochemical processes in a clay formation in-situ experiment: Part G: Key interpretations and conclusions. Implications for repository safety, Applied Geochemistry , 26, 6, 1023-1034
65. ZHANG K., CROISE J., MAYER G., Computation of the couplex-gaz exercise with tough2-MP : Hydrogen flow and transport in the pore water of a low-permeability clay rock hosting a nuclear waste repositry, Nuclear Technology, 174, 364-374