

European Journal of **Soil Science** – *an International Journal*

Greenhouse gas emissions from soil under changing environmental conditions: special section

- 547 J.-A. SUBKE, M. LAMERS, M. HERBST AND A. FRANZLUEBBERS
Greenhouse gas emissions from soil under changing environmental conditions
- 550 V. R. N. COSENTINO, S. A. FIGUEIRO AUREGGUI AND M. A. TABOADA
Hierarchy of factors driving N₂O emissions in non-tilled soils under different crops
- 558 A. J. FRANZLUEBBERS AND J. A. STUEDEMANN
Soil-profile distribution of organic C and N after 6 years of tillage and grazing management
- 567 L. WEIHERMÜLLER, A. GRAF, M. HERBST AND H. VEREECKEN
Simple pedotransfer functions to initialize reactive carbon pools of the RothC model
- 576 Y. SHIRATO, M. JOMURA, R. WAGAI, M. KONDO, K. TANABE AND M. UCHIDA
Deviations between observed and RothC-simulated $\Delta^{14}\text{C}$ values despite improved IOM initialization
- 586 S. UNTEREGELSBACHER, R. GASCHER, L. LIPP, W. SUN, O. KREYLING, H. GEITLINGER, I. KÖGEL-KNABNER, H. PAPAN, R. KIESE, H.-P. SCHMID AND M. DANNENMANN
Increased methane uptake but unchanged nitrous oxide flux in montane grasslands under simulated climate change conditions
- 597 J. BARTYZEL, J. M. NECKI, D. ZIEBA, K. ROZANSKI AND M. GASIOREK
Uptake of atmospheric hydrogen by soils: a case study from southern Poland
- 610 C. DECOCK AND J. SIX
On the potential of $\delta^{18}\text{O}$ and $\delta^{15}\text{N}$ to assess N₂O reduction to N₂ in soil
- 621 L. MENICHETTI, A. EKBLAD AND T. KÄTTERER
Organic amendments affect $\delta^{13}\text{C}$ signature of soil respiration and soil organic C accumulation in a long-term field experiment in Sweden

Chemical and bio-chemical interactions

- 629 J. W. FELLOWES, R. A. D. PATTRICK, C. BOOTHMAN, W. M. M. AL LAWATI, B. E. VAN DONGEN, J. M. CHARNOCK, J. R. LLOYD AND C. I. PEARCE
Microbial selenium transformations in seleniferous soils
- 639 V. HÄRING, H. FISCHER, G. CADISCH AND K. STAHR
Improved $\delta^{13}\text{C}$ method to assess soil organic carbon dynamics on sites affected by soil erosion
- 651 S. GRAND AND L. M. LAVKULICH
Potential influence of poorly crystalline minerals on soil chemistry in Podzols of southwestern Canada

Continues on the inside back cover

Continued from outside back cover

- 661 A.-M. FARNET, L. QASEMIAN, G. GIL AND E. FERRÉ
The importance of water availability in the reaction equilibrium of hydrolases in forest litters from a Mediterranean area: a study on lipases
- 667 K. MAINWARING, I. L. HALLIN, P. DOUGLAS, S. H. DOERR AND C. P. MORLEY
The role of naturally occurring organic compounds in causing soil water repellency

Physical processes and interactions

- 681 A. BOON, J. S. ROBINSON, P. D. NIGHTINGALE, L. CARDENAS, D. R. CHADWICK AND A. VERHOEF
Determination of the gas diffusion coefficient of a peat grassland soil
- 688 V. G. ASCHONITIS, V. Z. ANTONOPOULOS, E. H. LEKAKIS, V. D. LITSKAS, S. A. KOTSOPoulos AND D. N. KARAMOUZIS
Estimation of field capacity for aggregated soils using changes of the water retention curve under the effects of compaction
- 699 V. ABROL, I. SHAINBERG, M. LADO AND M. BEN-HUR
Efficacy of dry granular anionic polyacrylamide (PAM) on infiltration, runoff and erosion

Soil development, variability, characterization and development

- 706 A. BISWAS, H. P. CRESSWELL, R. A. VISCARRA ROSSEL AND B. C. SI
Characterizing scale- and location-specific variation in non-linear soil systems using the wavelet transform
- 716 T. SAEY, M. VAN MEIRVENNE, P. DE SMEDT, W. NEUBAUER, I. TRINKS, G. VERHOEVEN AND S. SEREN
Integrating multi-receiver electromagnetic induction measurements into the interpretation of the soil landscape around the school of gladiators at Carnuntum
- 728 Book reviews
- 732 Corrigendum

A summary of the Instructions to Authors is printed from time-to-time inside the back cover of the journal.
The full version is available at <http://www.blackwellpublishing.com/ejs>