

Effects of traditional soil management practices on the nutrient status in Sahelian sandy soils of Niger, West Africa K. Suzuki, R. Matsunaga, K. Hayashi, N. Matsumoto, R. Tabo, S. Tobita and K. Okada .....	1
Assessing the combined use of reduced tillage and cover crops for mitigating greenhouse gas emissions from arable ecosystem M. Abdalla, A. Hastings, M. Helmy, A. Prescher, B. Osborne, G. Lanigan, D. Forristal, D. Killi, P. Maratha, M. Williams, K. Rueangritsarakul, P. Smith, P. Nolan and M.B. Jones .....	9
Phosphorus release from anaerobic peat soils during convective discharge — Effect of soil Fe: P molar ratio and preferential flow D.M. Forsmann and C. Kjaergaard .....	21
The use of electromagnetic induction techniques in soils studies J.A. Doolittle and E.C. Brevik .....	33
Origin of the high sensitivity of Chinese red clay soils to drought: Significance of the clay characteristics B. D'Angelo, A. Bruand, J. Qin, X. Peng, C. Hartmann, B. Sun, H. Hao, O. Rozenbaum and F. Muller .....	46
Composition of clay-fraction organic matter in Holocene paleosols revealed by advanced solid-state NMR spectroscopy Z. Zhou, N. Chen, X. Cao, T. Chua, J. Mao, R.D. Mandel, E.A. Bettis III and M.L. Thompson .....	54
Effects of desertification on temporal and spatial distribution of soil macro-arthropods in Horqin sandy grassland, Inner Mongolia H.-L. Zhao, J. Li, R.-T. Liu, R.-L. Zhou, H. Qu and C.-C. Pan .....	62
Respiration (CO <sub>2</sub> flux) from urban and peri-urban soils amended with green waste compost L. Beesley .....	68
Soil classification using visible/near-infrared diffuse reflectance spectra from multiple depths G.M. Vasques, J.A.M. Demattê, R.A. Viscarra Rossel, L. Ramírez-López and F.S. Terra .....	73
Testing the effects of straw mulching and herb seeding on soil erosion after fire in a gorse shrubland J.A. Vega, C. Fernández, T. Fonturbel, S. González-Prieto and E. Jiménez .....	79
Determination of soil properties with visible to near- and mid-infrared spectroscopy: Effects of spectral variable selection M. Vohland, M. Ludwig, S. Thiele-Bruhn and B. Ludwig .....	88
Evaluation of modelling approaches for predicting the spatial distribution of soil organic carbon stocks at the national scale M.P. Martin, T.G. Orton, E. Lacarce, J. Meersmans, N.P.A. Saby, J.B. Paroissien, C. Jolivet, L. Boulonne and D. Arrouays .....	97
Calibration of DNDC model for nitrate leaching from an intensively cultivated region of Northern China H. Li, L. Wang, J. Qiu, C. Li, M. Gao and C. Gao .....	108