

Impacts of thermal and smouldering remediation on plant growth and soil ecology A. Pape, C. Switzer, N. McCosh and C.W. Knapp .....	1
Hypotheses presence and acceptance in seven soil science journals P. Nardi, G. Di Matteo and A.E. Hartemink .....	10
Temporal variation in soil physical properties improves the water dynamics modeling in a conventionally-tilled soil L. Alletto, V. Pot, S. Giuliano, M. Costes, F. Perdrieux and E. Justes .....	18
An evaluation of the role of hillslope components and land use in soil erosion using <sup>137</sup> Cs inventory and soil organic carbon stock K. Nosrati, A. Haddadchi, M.R. Zare and L. Shirzadi .....	29
Process-based mass-balance modeling of soil phosphorus availability: Testing different scenarios in a long-term maize monoculture A.J. Messiga, N. Ziadi, A. Mollier, L.-E. Parent, A. Schneider and C. Morel .....	41
Effects of endogeic earthworms on the soil organic matter dynamics and the soil structure in urban and alluvial soil materials J. Amossé, P. Turberg, R. Kohler-Milleret, J.-M. Gobat and R.-C. Le Bayon .....	50
Spatial variability of saturated hydraulic conductivity at the hillslope scale: Understanding the role of land management and erosional effect A.(Thanos) N. Papanicolaou, M. Elhakeem, C.G. Wilson, C. Lee Burras, L.T. West, H.(Henry) Lin, B. Clark and B.E. Oneal .....	58
Revisiting nitic horizon properties of Nitisols in SW Ethiopia L. De Wispelaere, V. Marcelino, A. Regassa, E. De Grave, M. Dumon, F. Mees and E. Van Ranst .....	69
Evaluation of soil quality for agricultural production using visible–near-infrared spectroscopy M.S. Askari, S.M. O'Rourke and N.M. Holden .....	80
Geometrical analysis of laboratory soil spectra in the short-wave infrared domain: Clay composition and estimation of the swelling potential G. Dufréhou, G. Grandjean and A. Bourguignon .....	92
Transport of dissolved polyacrylamide through a clay loam soil J. Kang, R.A. McLaughlin, A. Amoozegar, J.L. Héitman and O.W. Duckworth .....	108
Assessing the potential of biochar and charcoal to improve soil hydraulic properties in the humid Ethiopian Highlands: The Anjeni watershed H.K. Bayabil, C.R. Stoof, J.C. Lehmann, B. Yitaferu and T.S. Steenhuis .....	115

*(continued from back cover)*

Pore structure, stability and water repellency of earthworm casts and natural aggregates in loess soil J. Lipiec, M. Turski, M. Hajnos and R. Świeboda	124
Rapid assessment of soil and contaminant variability via portable x-ray fluorescence spectroscopy: Copșa Mică, Romania L. Paulette, T. Man, D.C. Weindorf and T. Person	130
Conifer litter identity regulates anaerobic microbial activity in wetland soils via variation in leaf litter chemical composition J.B. Yavitt and C.J. Williams	141
Estimating short-term soil erosion rates after single and multiple rainfall events by modelling the vertical distribution of cosmogenic <sup>7</sup> Be in soils A. Jha, U. Schkade and G. Kirchner	149
Synthesized use of VisNIR DRS and PXRf for soil characterization: Total carbon and total nitrogen D. Wang, S. Chakraborty, D.C. Weindorf, B. Li, A. Sharma, S. Paul and Md.N. Ali	157
Cumulative respiration in two drying and rewetting cycles depends on the number and distribution of moist days A. Shi, N. Yan and P. Marschner	168
Effects of biochar and manure amendments on water vapor sorption in a sandy loam soil E. Arthur, M. Tuller, P. Moldrup and L.W. de Jonge	175
Proximal soil sensing for Precision Agriculture: Simultaneous use of electromagnetic induction and gamma radiometrics in contrasting soils F.A. Rodrigues Jr., R.G.V. Bramley and D.L. Gobbett	183
The protozoic Si pool in temperate forest ecosystems — Quantification, abiotic controls and interactions with earthworms D. Puppe, O. Ehrmann, D. Kaczorek, M. Wanner and M. Sommer	196
Soil aggregate stability to predict organic carbon outputs from soils V. Chaplot and M. Cooper	205
Do more detailed environmental covariates deliver more accurate soil maps? A. Samuel-Rosa, G.B.M. Heuvelink, G.M. Vasques and L.H.C. Anjos	214