
CONTENTS

The response of a shallow lake and its catchment to Late Glacial climate changes — A case study from eastern Poland I. Zawiska, M. Słowiński, A. Correa-Metrio, M. Obremska, T. Luoto, L. Nevalainen, M. Woszczyk and K. Milecka	1
Lithological discontinuities in Podzols developed from sandstone cover beds in the Stolowe Mountains (Poland) J. Waroszewski, M. Malkiewicz, R. Mazurek, B. Labaz, P. Jezierski and C. Kabala	11
Palynological studies of Late Holocene Jurujuba Sound sediments (Guanabara Bay), Rio de Janeiro, southeast Brazil C.F. Barreto, J.A.B. Neto, C.G. Vilela and O.M. Barth	20
The impact of permanent gullies on present-day land use and agriculture in loess areas (E. Poland) W. Zgłobicki, B. Baran-Zgłobicka, L. Gawrysiak and M. Telecka	28
Rapid and selective clast weathering on an alluvial fan, eastern Karoo, South Africa J. Boardman	37
Spatial variations and bioaccumulation of heavy metals in intertidal zone of the Yellow River estuary, China Z. Sun, X. Mou, C. Tong, C. Wang, Z. Xie, H. Song, W. Sun and Y. Lv	43
A modified applicative criterion of the physical model concept for evaluating plot soil erosion predictions V. Bagarello, V. Ferro, G. Giordano, F. Mannocchi, V. Pampalone and F. Todisco	53
Corrigendum: Comment on “Predicting event soil loss from bare plots at two Italian sites” by Bagarello et al. 2013 P.I.A. Kinnell	59
Impact of sheet erosion mechanisms on organic carbon losses from crusted soils in the Sahel S.B. Maïga-Yaleu, P. Chivenge, H. Yacouba, I. Guiguemde, H. Karambiri, O. Ribolzi, A. Bary and V. Chaplot	60
Soil organic and inorganic carbon in the loess profiles of Lanzhou area: implications of deep soils F. Zhang, X. Wang, T. Guo, P. Zhang and J. Wang	68
Influences of major flood sediment inputs on sedimentary and geochemical signals archived in a reservoir core (Upper Loire Basin, France) E. Dhivert, C. Grosbois, A. Coynel, I. Lefèvre and M. Desmet	75
Organic matter processing and soil evolution in a braided river system N. Bätz, E.P. Verrecchia and S.N. Lane	86
Soil distribution modeling using inductive learning in the eastern part of permafrost regions in Qinghai–Xizang (Tibetan) Plateau W. Li, L. Zhao, X. Wu, S. Wang, Y. Sheng, C. Ping, Y. Zhao, H. Fang and W. Shi	98
Paleo-environment and flooding of the Limpopo River-plain, Mozambique, between c. AD 1200–2000 S.R. Siteo, J. Risberg, E. Norström, I. Snowball, K. Holmgren, M. Achimo and J. Mugabe	105
The influence of catchment morphology, lithology and land use on soil organic carbon export in a Mediterranean mountain region E. Nadeu, J.M. Quiñonero-Rubio, J. de Vente and C. Boix-Fayos	117
Oxidative ratio (OR) of Southern African soils and vegetation: Updating the global OR estimate G.D. Clay and F. Worrall	126
An integrated approach to mapping and understanding of vegetation: soil systems W.H. Verboom and J.S. Pate	134

(Contents continued on last page of this issue)

(continued from outside back cover)

Soil management guidelines in Spain and Portugal related to EU Soil Protection Strategy based on analysis of soil databases A.P. Fernández-Getino and A.C. Duarte	146
Shrinkage of the Ruoergai Swamp and changes to landscape connectivity, Qinghai-Tibet Plateau Z.-W. Li, Z.-Y. Wang, G. Brierley, T. Nicoll, B.-Z. Pan and Y.-F. Li	155
Penetration resistance of biological soil crusts and its dynamics after crust removal: Relationships with runoff and soil detachment S. Chamizo, E. Rodríguez-Caballero, Y. Cantón, C. Asensio and F. Domingo	164
Tectono-geomorphic and environmental set-up deduced during deposition of Mio-Pleistocene sediments in NW Himalaya, India S. Singh, B. Parkash and A.K. Awasthi	173
Contribution of soil properties to the assessment of a seawater irrigation programme as a management strategy for abandoned solar saltworks M.N. González-Alcaraz, B. Aránega, H.M. Conesa, M.J. Delgado and J. Álvarez-Rogel	189
Variations of soil water isotopes and effective contribution times of precipitation and throughfall to alpine soil water, in Wolong Nature Reserve, China Y. Liu, F. Liu, Z. Xu, J. Zhang, L. Wang and S. An	201
Improvements in the physical and chemical characteristics of degraded soils supplemented with organic–inorganic amendments in the Himalayan region of Kashmir, Pakistan A. Khaliq and M. Kaleem Abbasi	209
Experimental Order 1 soil survey of vacant urban land, Detroit, Michigan, USA J.L. Howard and W.D. Shuster	220