

Contents

Vol. 45, No. 2, 2012

A simultaneous English language translation of this journal is available from Pleiades Publishing, Ltd.
Distributed worldwide by Springer. *Eurasian Soil Science* ISSN 1064-2293.

Genesis and Geography of Soils

- Analysis of Soil–Climatic Relationships on the Basis of the Soil Map and the BIOME Database
N. I. Belousova, D. I. Nazimova, and N. M. Andreeva 109
- Dynamics of the Properties of Steppe Paleosols of the Sarmatian Time
(2nd Century BC–4th Century AD) in Relation to Secular Variations in Climatic Humidity
*V. A. Demkin, B. N. Zolotareva, T. S. Demkina, T. E. Khomutova,
N. N. Kashirskaya, M. V. El'tsov, and S. N. Udal'tsov* 119
-

Soil Chemistry

- The Humus State of the Soils of Locally Hydromorphic Landscapes
in the Lower Reaches of the Don River
S. A. Tishchenko and O. S. Bezuglova 132
- Heavy Metals (Copper, Lead, Nickel, and Cadmium) in the Organic Part
of Gray Forest Soils in the Buryat Republic
G. D. Chimitdorzhieva, A. Z. Nimbueva, and E. A. Bodeeva 141
-

Soil Biology

- Analysis of the Structure of Microbial Community in Soils
with Different degrees of Salinization Using T-RFLP and Real-Time PCR Techniques
*E. E. Andronov, S. N. Petrova, A. G. Pinaev, E. V. Pershina,
S. Zh. Rakhimgalieva, K. M. Akhmedenov, A. V. Gorobets, and N. Kh. Sergaliev* 147
- Evaluating the Biological Activity of Oil-Polluted Soils Using a Complex Index
*R. R. Kabirov, N. A. Kireeva, T. R. Kabirov,
I. Ye. Dubovik, A. B. Yakupova, and L. M. Safiullina* 157
-

Mineralogy and Micromorphology of Soils

- Assessment of the Mineralogical Status of Silicate Components in Chernozems
V. E. Alekseev 162
- Textures and Micromorphology of the Early Valdai Pedosediments
and Their Importance for the Reconstruction of the Natural Conditions
in the Period of the First Post-Mikulino Cooling (MIS 5d)
T. M. Grigor'eva, S. A. Sycheva, Yu. R. Belyaev, and E. D. Sheremetskaya 172
-

Soil Erosion

- Use of the Mass Exchange Theory for Describing Soil Erosion by Water and Wind
V. M. Gendugov, G. P. Glazunov, G. A. Larionov, and N. F. Nazarov 182
- Erodibility of Arable Soils in Georgia during the Period of Storm Runoff
G. P. Gogichaishvili 189
-

Degradation, Rehabilitation, and Conservation of Soils

Specific Features of the Ecological Functioning of Urban Soils in Moscow and Moscow Oblast

V. I. Vasenev, N. D. Ananyeva, and O. A. Makarov

194

Changes in the Properties of Leached Chernozems of the Northern Forest-Steppe
in the Middle Ob River Basin caused by Different Agricultural Uses

L. P. Galeeva

206
