

# Contents

---

---

Vol. 46, No. 1, 2013

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

Complex of Solonchets and Vertic Chestnut Soils in the Manych–Gudilo Depression

*I. V. Kovda, E. P. Morgun, and L. P. Il'ina* 1

Buried Late Holocene Paleosols of the Nienshants Cultural–Historical Monument in St. Petersburg

*A. V. Rusakov, A. A. Nikonov, L. A. Savelieva, and D. V. Pinakhina* 15

---

## Soil Chemistry

Pyrogenic Polycyclic Aromatic Hydrocarbons in Soils of Reserved and Anthropogenically Modified Areas: Factors and Features of Accumulation

*A. N. Gennadiev and A. S. Tsibart* 28

Stable and Labile Components of Humus in Soddy-Podzolic Soils

*V. F. Drichko, L. G. Bakina, and N. E. Orlova* 37

Effect of Aluminum, Zinc, Copper, and Lead on the Acid–Base Properties of Water Extracts from Soils

*G. V. Motuzova, I. P. Makarychev, and M. I. Petrov* 44

Geostatistical Analysis of the Spatial Variation of the Ash Reserves in the Litter of Bog Birch Forests in Western Siberia

*T. T. Efremova, O. P. Sekretenko, A. F. Avrova, and S. P. Efremov* 51

---

## Soil Biology

Microbial Activity of Peat Soils of Boggy Larch Forests and Bogs in the Permafrost Zone of Central Evenkia

*I. D. Grodnitskaya, L. V. Karpenko, A. A. Knorre, and S. N. Syrtsov* 61

Abundance, Diversity, Viability, and Factorial Ecology of Fungi in Peatbogs

*A. V. Golovchenko, A. V. Kurakov, T. A. Semenova, and D. G. Zvyagintsev* 74

---

## Mineralogy and Micromorphology of Soils

The Destruction of Quartz, Amorphous Silica Minerals, and Feldspars in Model Experiments and in Soils: Possible Mechanisms, Rates, and Diagnostics (the Analysis of Literature)

*T. A. Sokolova* 91

---

---