

Ecology, Biological Processes and Plant Interactions

The responses of early foliar litter humification to reduced snow cover during winter in an alpine forest

X. Ni, W. Yang, H. Li, L. Xu, J. He, B. Tan, and F. Wu 453–461

Differentiation of potato ecosystems on the basis of relationships among physical, chemical and biological soil parameters

G. Boiteau, C. Goyer, H. W. Rees, and B. J. Zebarth 463–476

Composition and Chemical Processes

Landscape-scale variability in soil organic carbon storage in the central Canadian Arctic

A. B. Campeau, P. M. Lafleur, and E. R. Humphreys 477–488

Physical Processes and Interfaces

Improving water storage of reclamation soil covers by fractionation of coarse-textured soil

Y. V. Dobrovolskaya, H. W. Chau, and B. C. Si 489–501

Genesis, Landscape Processes and Relationships

Soil organic carbon estimation with topographic properties in artificial grassland using a state-space modeling approach

D. She, G. Xuemei, S. Jingru, L. C. Timm, and W. Hu 503–514

Contamination and Environmental Stewardship

Soluble salts, copper, zinc, and solids constituents in surface runoff from cattle manure compost windrows

F. J. Larney, A. F. Olson, J. J. Miller, and B. C. Tovell 515–527

Desulphurized tailings serve as a useful soil supplement for mine reclamation

A. W. Carson, P. M. Rutherford, and P. J. Burton 529–541

Effect of phosphate rock on the solubility of heavy metals in soils saturated with industrial wastewater

M. Irshad, R. U. Khan, S. Jadoon, A. Hassan, and A. E. Eneji 543–549

Management for Agricultural, Forestry and Urban Uses

An evaluation of biochar pre-conditioned with urea ammonium nitrate on maize (*Zea mays* L.) production and soil biochemical characteristics

M. Dil, M. Oelbermann, and W. Xue 551–562

Nitrogen application rate, timing and history effects on nitrous oxide emissions from corn (*Zea mays* L.)

A. K. Roy, C. Wagner-Riddle, B. Deen, J. Lauzon, and T. Bruulsema 563–573