

Review

Review: Reducing residual soil nitrogen losses from agroecosystems for surface water protection in Quebec and Ontario, Canada: Best management practices, policies and perspectives
S. Rasouli, J. K. Whalen, and
C. A. Madramootoo 109–127

Ecology, Biological Processes and Plant Interactions

Effect of nitrogen fertilizer application rate on yield, methane and nitrous oxide emissions from switchgrass (*Panicum virgatum* L.) and reed canarygrass (*Phalaris arundinacea* L.)
A. Wile, D. L. Burton, M. Sharifi, D. Lynch, M. Main,
and Y. A. Papadopoulos 129–137

Nitrogen budget for fertilized carrot cropping systems in a Quebec organic soil
J. Caron, G. T. Rancourt, C. Bélec, N. Tremblay,
and L.-É. Parent 139–148

Greenhouse gas emissions from pig slurry applied to forage legumes on a loamy sand soil in south central Manitoba
X. Gao, M. Tenuta, K. E. Buckley, F. Zvomuya,
and K. Ominski 149–155

Composition and Chemical Processes

Carbon and nitrogen in the silt-size fraction and its HCl-hydrolysis residues from coarse-textured Canadian boreal forest soils
C. M. Preston, C. E. Norris, G. M. Bernard,
D. W. Beilman, S. A. Quideau, and
R. E. Wasylishen 157–168

Comparison of surface properties of synthetic and soil struvite
S. M. Y. Baugé, L. M. Lavkulich, J. E. Wilson,
and H. E. Schreier 169–176

Physical Processes and Interfaces

Changes of preferential flow path on different altitudinal zones in the Three Gorges Reservoir Area, China
M. Liu, W. Du, and H. Zhang 177–188

Genesis, Landscape Processes and Relationships

Enhanced A horizon Framework and Field Form for detailed field scale monitoring of dynamic soil properties
C. A. Fox, C. Tarnocai, G. Broll, M. Joschko,
D. Kroetsch, and E. Kenney 189–208

Contamination and Environmental Stewardship

Influence of streambank fencing and river access for cattle on riparian zone soils adjacent to the Lower Little Bow River in southern Alberta, Canada
J. J. Miller, T. Curtis, D. S. Chanasyk, and
W. D. Willms 209–222

Management for Agricultural, Forestry and Urban Uses

Water use efficiency of spring wheat in the semi-arid Canadian prairies: Effect of legume green manure, type of spring wheat, and cropping frequency
R. Kröbel, R. Lemke, C. A. Campbell, R. Zentner,
B. McConkey, H. Steppuhn, R. De Jong, and
H. Wang 223–235

Fluxes of CH₄, N₂O, and kinetics of denitrification in disturbed and undisturbed forest soil in India
N. Raut, B. K Sitaula, L. R Bakken, and
P. Dörsch 237–249

Acknowledgement of Reviewers 251–252