

Contrasting effects of $\text{NH}_4^+$ and $\text{NO}_3^-$ amendments on amount and chemical characteristics of different density organic matter fractions in a boreal forest soil S. Cheng, S. He, H. Fang, J. Xia, J. Tian, G. Yu, J. Geng and G. Yu	1
Photooxidation of pyrogenic organic matter reduces its reactive, labile C pool and the apparent soil oxidative microbial enzyme response R. Wang, C.D. Gibson, T.D. Berry, Y. Jiang, J.A. Bird and T.R. Filley	10
Total vertical sediment flux and $\text{PM}_{10}$ emissions from disturbed Chihuahuan Desert surfaces R.S. Van Pelt, M.C. Baddock, T.M. Zobeck, P. D'Odorico, S. Ravi and A. Bhattachan	19
Retention of quaternary ammonium herbicides by acid vineyard soils with different organic matter and Cu contents M. Conde-Cid, R. Paradelo, D. Fernández-Calviño, C. Pérez-Novo, J.C. Nóvoa-Muñoz and M. Arias-Estévez	26
Umbric Ferralsols along a climosequence from the Atlantic coast to the highlands of northeastern Brazil: Characterization and carbon mineralization J.K.S. Araujo, V.S.d. Souza Júnior, F.A. Marques, P. Voroney, R.A.d.S. Souza, M.M. Corrêa and E.R.G. Câmara	34
Microscale soil structures foster organic matter stabilization in permafrost soils C.W. Mueller, C. Hoeschen, M. Steffens, H. Buddenbaum, K. Hinkel, J.G. Bockheim and J. Kao-Kniffin	44
Estimation of soil organic carbon and total nitrogen in different soil layers using VNIR spectroscopy: Effects of spiking on model applicability Q. Jiang, Q. Li, X. Wang, Y. Wu, X. Yang and F. Liu	54
Behavior of the enantiomers of the herbicide imazaquin in agricultural soils under different application regimes R. López-Cabeza, B. Gámiz, J. Cornejo and R. Celis	64
Soil microbial community responses to long-term land use intensification in subtropical grazing lands S. Xu, M.L. Silveira, K.S. Inglett, L.E. Sollenberger and S. Gerber	73
Soil C quantities of mangrove forests, their competing land uses, and their spatial distribution in the coast of Honda Bay, Philippines J.A.A. Castillo, A.A. Apan, T.N. Maraseni and S.G. Salmo III	82