

REVIEW PAPER

Use and understanding of organic amendments in Australian agriculture: a review

J. R. Quilty, S. R. Cattle

1

RESEARCH PAPERS

Comparison of three carbon determination methods on naturally occurring substrates and the implication for the quantification of 'soil carbon'

M. K. Conyers, G. J. Poile, A. A. Oates, D. Waters, K. Y. Chan

27

Factors affecting apparent ^{15}N fractionation during nitrogen mineralisation in soils with different root litter inputs

Jorge Sierra, Lucienne Desfontaines

34

Remedial options for copper-contaminated vineyard soils

U. Pietrzak, N. C. Uren

44

Evaluation of the effects of cation combinations on soil hydraulic conductivity

N. S. Jayawardane, E. W. Christen, M. Arienzo, W. C. Quayle

56

Bacterial community structure and denitrifier (*nir*-gene) abundance in soil water and groundwater beneath agricultural land in tropical North Queensland, Australia

Steven A. Wakelin, Paul N. Nelson, John D. Armour, Velupillai Rasiah, Matthew J. Colloff

65

Temporal variability of soil water storage evaluated for a coffee field

L. C. Timm, D. Dourado-Neto, O. O. S. Bacchi, W. Hu, R. P. Bortolotto, A. L. Silva, I. P. Bruno, K. Reichardt

77

Runoff, soil loss, and nutrient transport from cropping systems on Red Ferrosols in tropical northern Australia

A. L. Cogle, M. A. Keating, P. A. Langford, J. Gunton, I. S. Webb

87

SHORT COMMUNICATION

Assessing carbon lability of particulate organic matter from $\delta^{13}\text{C}$ changes following land-use change from C_3 native vegetation to C_4 pasture

R. C. Dalal, B. A. Cowie, D. E. Allen, S. A. Yo

98