

CONTENTS

RESEARCH PAPERS

- In vitro* and *in vivo* bio-stimulatory properties of a *Lupinus albus* L. seed suspension
Elmarie van der Watt, Johan C. Pretorius 189
- Amino acid composition of xylem and phloem sap varies in canola genotypes differing in nitrogen- and sulfur-use efficiency
Tatjana Balint, Zdenko Rengel 198
- Radiation-use efficiency and the harvest index of winter wheat at different nitrogen levels and their relationships to canopy spectral reflectance
H. L. Li, Y. Luo, J. H. Ma 208
- Development of a DNA marker tightly linked to low-alkaloid gene *iucundus* in narrow-leaved lupin (*Lupinus angustifolius* L.) for marker-assisted selection
X. Li, H. Yang, B. Buirchell, G. Yan 218
- Salinity and waterlogging tolerance amongst accessions of messina (*Melilotus siculus*)
M. E. Rogers, T. D. Colmer, P. G. H. Nichols, S. J. Hughes, K. Frost, D. Cornwall, S. Chandra, S. M. Miller, A. D. Craig 225
- Biserrula and subterranean clover can co-exist during the vegetative phase but are out-competed by capeweed
S. A. Conning, M. Renton, M. H. Ryan, P. G. H. Nichols 236
- Effect of environment and plant phenology on prediction of plant nutrient deficiency using leaf analysis in *Leucaena leucocephala*
Alejandro Radrizzani, Scott A. Dalzell, H. Max Shelton 248
- Seasonal changes in leaf and stem loline alkaloids in meadow fescue
Brian Patchett, Ravi Gooneratne, Lester Fletcher, Bruce Chapman 261