

RESEARCH PAPERS

- Quality potential of synthetic-derived commercial wheat cultivars in south-western China
Y. L. Tang, C. S. Li, W. Y. Yang, Y. Q. Wu, X. L. Wu, C. Wu, X. L. Ma, S. Z. Li, G. M. Rosewarne 583
- Contribution of apigenin di-C-glycosides and lutein to the colour of yellow alkaline noodles
Grace Y. Wijaya, Clare Ingram, Robert E. Asenstorfer, Daryl J. Mares 594
- Application of prognostic breeding in maize
Vasileios Greveniotis, Vasilia A. Fasoula 605
- Effect of Fe_3O_4 nanoparticles and iron chelate on the antioxidant capacity and nutritional value of soil-cultivated maize (*Zea mays*) plants
Mahboobeh Jalali, Faezeh Ghanati, Ali Mohammad Modarres-Sanavi 621
- Competition and growth of a grass-legume mixture fertilised with nitrogen and phosphorus: effect on nutrient acquisition, root morphology and symbiosis with soil microorganisms
Rodolfo Mendoza, Iléana García, Daniela Depalma, Carolina Fernández López 629
- Nitrogen fertiliser requirements of high-yielding irrigated transgenic cotton
Ian J. Rochester, Michael Bange 641
- Single independent genes confer resistance to faba bean rust (*Uromyces viciae-fabae*) in the current Australian cultivar Doza and a central European line Ac1655
Kedar N. Adhikari, Peng Zhang, Abdus Sadeque, Sami Hoxha, Richard Trethowan 649
- Physiological and molecular characterisation of lucerne (*Medicago sativa* L.) germplasm with improved seedling freezing tolerance
M. Rokeybul Anower, Anne Fennell, Arvid Boe, Ivan W. Mott, Michael D. Peel, Yajun Wu 655
- Autumn dormancy regulates the expression of *cas18*, *vsp* and *corF* genes during cold acclimation of lucerne (*Medicago sativa* L.)
Zhi-ying Liu, Guo-feng Yang, Xi-liang Li, Ya-fei Yan, Juan Su, Run Gao, Qi-zhong Sun, Zong-li Wang 666
- Control of water leakage from below the root zone by summer-active pastures is associated with persistence, density and deep rootedness
M. R. McCaskill, G. A. Kearney 679