

Arid Environments

Volume 76C January 2012

Contents

Botany

- Huang, J.Y., Yu, H.L., Wang, B., Li, L.H., Xiao, G.J. & Yuan, Z.Y. Nutrient resorption based on different estimations of five perennial herbaceous species from the grassland in inner Mongolia, China 1
- Bowker, M.A., Muñoz, A., Martínez, T. & Lau, M.K. Rare drought-induced mortality of juniper is enhanced by edaphic stressors and influenced by stand density 9
- Giantomasi, M.A., Roig-Juñent, F., Patón-Domínguez, D. & Massaccesi, G. Environmental modulation of the seasonal cambial activity in *Prosopis flexuosa* DC trees from the Monte woodlands of Argentina 17
- Eberhart, A. & Tielbörger, K. Maternal fecundity does not affect offspring germination – An empirical test of the sibling competition hypothesis 23
- Eugenio, M., Olano, J.M., Ferrandis, P., Martínez-Duro, E. & Escudero, A. Population structure of two dominant gypsophyte shrubs through a secondary plant succession 30

Zoology

- Pereira, J.A., Walker, R.S. & Novaro, A.J. Effects of livestock on the feeding and spatial ecology of Geoffroy's cat 36
- Lara-Romero, C., Virgós, E., Escribano-Ávila, G., Mangas, J.G., Barja, I. & Pardavila, X. Habitat selection by European badgers in Mediterranean semi-arid ecosystems 43
- Attum, O. & Mahmoud, T. Dorcas gazelle and livestock use of trees according to size in a hyper-arid landscape 49
- Halffter, G., Verdú, J.R., Moreno, C.E. & Halffter, V. Historical and ecological determinants of dung beetle assemblages in two arid zones of central Mexico 54

Landscape

- Scott, A.J. & Morgan, J.W. Recovery of soil and vegetation in semi-arid Australian old fields 61
- Kollaus, K.A. & Bonner, T.H. Habitat associations of a semi-arid fish community in a karst spring-fed stream 72
- Raiesi, F. Land abandonment effect on N mineralization and microbial biomass N in a semi-arid calcareous soil from Iran 80
- Pérez-Cabello, F., Cerdà, A., de la Riva, J., Echeverría, M.T., García-Martín, A., Ibarra, P., Lasanta, T., Montorio, R. & Palacios, V. Micro-scale post-fire surface cover changes monitored using high spatial resolution photography in a semiarid environment: A useful tool in the study of post-fire soil erosion processes 88
- Rau, B.M., Tausch, R., Reiner, A., Johnson, D.W., Chambers, J.C. & Blank, R.R. Developing a model framework for predicting effects of woody expansion and fire on ecosystem carbon and nitrogen in a pinyon–juniper woodland 97
- Abdallah, F., Noumi, Z., Ouled-Belgacem, A., Michalet, R., Touzard, B. & Chaieb, M. The influence of *Acacia tortilis* (Forssk.) ssp. *raddiana* (Savi) Brenan presence, grazing, and water availability along the growing season, on the understory herbaceous vegetation in southern Tunisia 105

Land Use

- Baldi, G. & Jobbágy, E.G. Land use in the dry subtropics: Vegetation composition and production across contrasting human contexts 115

Short Communications

- Palacio, S., Johnson, D., Escudero, A. & Montserrat-Martí, G. Root colonisation by AM fungi differs between gypsum specialist and non-specialist plants: Links to the gypsophile behaviour 128
- Donnermeyer, C.J. & Drezner, T.D. Cohort establishment on slopes: Growth rates, demographic patterns, and the relationship to volcanic eruptions 133
- Santos, I.J.M., Melo Coutinho, H.D., Ferreira Matias, E.F., Martins da Costa, J.G., Nóbrega Alves, R.R. & de Oliveira Almeida, W. Antimicrobial activity of natural products from the skins of the semiarid living lizards *Ameiva ameiva* (Linnaeus, 1758) and *Tropidurus hipidus* (Spix, 1825) 138
- Procter, D.L.C. Soil-living nematodes of a savanna community in Botswana: A preliminary report 142