

(Abstracted/indexed in: AGRICOLA, Biological Abstracts, Biological & Agricultural Index, Elsevier BIOBASE/Current Awareness in Biological Sciences, Ecological Abstracts, EMBiology, Environment Abstracts, Environmental Periodicals Bibliography, Excerpta Medica, Geo Abstracts, Geobase, TROPAG and RURAL Database. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®.)

Research papers

Modeling the impacts of climate change on wheat yields in Northwestern Turkey M. Özdoğan (USA)	1
Two-year evaluation of fuelbreaks grazed by livestock in the wildfire prevention program in Andalusia (Spain) J. Ruiz-Mirazo, A.B. Robles and J.L. González-Rebollar (Spain)	13
Modeling the impact of climate change on soil organic carbon stock in upland soils in the 21st century in China Y. Wan, E. Lin, W. Xiong, Y. Li and L. Guo (China)	23
Invertebrate community richness in New Zealand kiwifruit orchards under organic or integrated pest management J.H. Todd, L.A. Malone, B.H. McArdle, J. Benge, J. Poulton, S. Thorpe and J.R. Beggs (New Zealand)	32
The effect of methodology on estimates of greenhouse gas emissions from grass-based dairy systems D. O'Brien, L. Shalloo, F. Buckley, B. Horan, C. Grainger and M. Wallace (Ireland)	39
Response to sewage sludge fertilisation in a <i>Quercus rubra</i> L. silvopastoral system: Soil, plant biodiversity and tree and pasture production N. Ferreiro-Domínguez, A. Rigueiro-Rodríguez and M.R. Mosquera-Losada (Spain)	49
Phosphorus forms and P-sorption properties in three alkaline soils after long-term mineral and manure applications in north-eastern Italy D. Pizzeghello, A. Berti, S. Nardi and F. Morari (Italy)	58
Summer drought influence on CO ₂ and water fluxes of extensively managed grassland in Germany M.Z. Hussain, T. Grünwald, J.D. Tenhunen, Y.L. Li, H. Mirzae, C. Bernhofer, D. Otieno, N.Q. Dinh, M. Schmidt, M. Wartinger and K. Owen (Germany, PR China, Iran, France)	67
Greenhouse gas balance due to the conversion of sugarcane areas from burned to green harvest in Brazil E.B. De Figueiredo and N. La Scala Jr. (Brazil)	77
Long-term soil quality degradation along a cultivation chronosequence in western Kenya B.N. Moebius-Clune, H.M. van Es, O.J. Idowu, R.R. Schindelbeck, J.M. Kimetu, S. Ngoze, J. Lehmann and J.M. Kinyangi (USA, Kenya)	86
Environmental and agronomic impact of fertilization with composted organic fraction from municipal solid waste: A case study in the region of Naples, Italy M. Fagnano, P. Adamo, M. Zampella and N. Fiorentino (Italy)	100
Carbon sequestration and biodiversity restoration potential of semi-arid mulga lands of Australia interpreted from long-term grazing exclosures G.B. Witt, M.V. Noël, M.I. Bird, R.J.S. (Bob) Beeton and N.W. Menzies (Australia)	108
Mixed effects of landscape structure and farming practice on bird diversity C. Fischer, A. Flohre, L.W. Clement, P. Batáry, W.W. Weisser, T. Tschardtke and C. Thies (Germany)	119
Effects of conservation practices on bird nest density and survival in intensive agriculture R.R. Conover, S.J. Dinsmore and L.W. Burger Jr. (USA)	126
Comparison of carbon fluxes, growth and productivity of a winter wheat crop in three contrasting growing seasons D. Dufranne, C. Moureaux, F. Vancutsem, B. Bodson and M. Aubinet (Belgium)	133
Winter feeding beef cattle on the western Canadian prairies: Impacts on soil nitrogen and phosphorus cycling and forage growth P.F. Jungnitsch, J.J. Schoenau, H.A. Lardner and P.G. Jefferson (Canada)	143
Nitrous oxide emissions and nitrate leaching in an arable rotation resulting from the presence of an intercrop V.A. Pappa, R.M. Rees, R.L. Walker, J.A. Baddeley and C.A. Watson (UK)	153
Sediment-bound and dissolved carbon concentration and transport from a small pastured watershed L.B. Owens and M.J. Shipitalo (USA)	162

(Contents continued on last page of issue)

(Contents continued from outside back cover)

Modelling uncertainty for nitrate leaching and nitrous oxide emissions based on a Swedish field experiment with organic crop rotation J. Nylander, M. Stenberg, P.-E. Jansson, Å.K. Klemedtsson, P. Weslien and L. Klemedtsson (Sweden)	167
Roots contribute more to refractory soil organic matter than above-ground crop residues, as revealed by a long-term field experiment T. Kätterer, M.A. Bolinder, O. Andrén, H. Kirchmann and L. Menichetti (Sweden)	184
Effects of organic farming on plant and arthropod communities: A case study in Mediterranean dryland cereal C. Ponce, C. Bravo, D.G. de León, M. Magaña and J.C. Alonso (Spain)	193
Species richness and composition of bird communities in various field margins of Poland A. Wuczyński, K. Kujawa, Z. Dajdok and W. Grzesiak (Poland)	202
Does soil biota benefit from organic farming in complex vs. simple landscapes? A. Flohre, M. Rudnick, G. Traser, T. Tschardt and T. Eggers (Germany, Hungary)	210
Short communications	
Nitrogenous fertilizer effects on soil structural properties under switchgrass J.Y. Jung, R. Lal, J.D. Jastrow and D.D. Tyler (USA)	215
Toxicity of castor bean (<i>Ricinus communis</i>) pollen to honeybees E.M. de Assis Junior, I.M. dos Santos Fernandes, C.S. Santos, L.X. de Mesquita, R.A. Pereira, P.B. Maracajá and B. Soto-Blanco (Brazil)	221
Wet deposition N and its runoff flow during wheat seasons in the Tai Lake Region, China Y. Tian, L. Yang, B. Yin and Z. Zhu (China)	224
Proximal and distal control by pH of denitrification rate in a pasture soil J. Čuhel and M. Šimek (Czech Republic)	230
Direct N ₂ O emissions following transition from conventional till to no-till in a cover cropped Mediterranean vineyard (<i>Vitis vinifera</i>) G.M. Garland, E. Suddick, M. Burger, W.R. Horwath and J. Six (USA)	234
Rice genotypes that respond strongly to elevated CO ₂ also respond strongly to low planting density H. Shimono (Japan)	240