



Cambridge Core

The new home of
Cambridge Journals

cambridge.org/core

Cambridge Core

<https://doi.org/10.1017/S002185961900039X> Published online by Cambridge University Press



CAMBRIDGE
UNIVERSITY PRESS

THE JOURNAL OF AGRICULTURAL SCIENCE

CLIMATE CHANGE AND AGRICULTURE RESEARCH PAPER

- **Regional difference of grain production potential change and its influencing factors: a case-study of Shaanxi Province, China**
LI FEI, LI YA AND MA SHUANG 1

CROPS AND SOILS RESEARCH PAPERS

- **The effect of over 50 years of liming on soil aluminium forms in a Retisol**
Z. KRYZEVICIUS, D. KARCAUSKIENE, E. ÁLVAREZ-RODRÍGUEZ, A. ZUKAUSKAITE, A. SLEPETIENE AND J. VOLUNGEVICIUS 12
- **Detection of quantitative trait loci for wheat (*Triticum aestivum* L.) heading and flowering date**
C. H. ZHAO, H. SUN, C. LIU, G. M. YANG, X. J. LIU, Y. P. WANG, F. X. LV, C. Y. WU, J. W. XU, Y. Z. WU AND F. CUI 20
- **Influence of indigenous arbuscular mycorrhizal fungus and bacterial bioinoculants on growth and yield of *Capsicum chinense* cultivated in non-sterilized soil**
K. SURENDIRAKUMAR, R. R. PANDEY AND T. MUTHUKUMAR 31
- **Improving soil carbon pool, soil fertility and yield of maize (*Zea mays* L.) in low-fertile tropical Alfisols by combining fertilizers with slow-decomposing organic amendments**
J. A. S. CHATHURIKA, D. KUMARAGAMAGE, S. P. INDRARATNE AND W. S. DANDENIYA 45

ANIMAL RESEARCH PAPERS

- **Butyric acid as a promising alternative to antibiotic growth promoters in broiler chicken production**
M. RAZA, A. BISWAS, N. A. MIR AND A. B. MANDAL 55
- **Plant and animal responses of elephant grass pasture-based systems mixed with pinto peanut**
A. C. VIEIRA, C. J. OLIVO, C. B. ADAMS, J. C. SAUTHIER, L. R. PROENÇA, M. D. F. A. DE OLIVEIRA, P. B. DOS SANTOS, H. P. SCHIAFINO, T. J. TONIN, G. L. DE GODOY, M. ARRIAL AND L. G. CASAGRANDE 63
- **Whey protein concentrate improves antioxidant capacity, faecal microbiota and fatty acid profile of growing piglets**
I. KAFANTARIS, D. STAGOS, B. KOTSAMPASI, D. KANTAS, V. KOUKOUNIS, N. D. MOSCHONAS, Z. SKAPERDA, K. GERASOPOULOS, S. MAKRI, N. GOUTZOURELAS, C. MITSAGGA, I. GIAVASIS, K. PETROTOS, S. KOKKAS AND D. KOURETAS 72
- **Pregnant cow nutrition and its effects on foetal weight – a meta-analysis**
D. ZAGO, M. E. A. CANOZZI AND J. O. J. BARCELLOS 83

CORRIGENDUM

- **Corrigendum: The effect of over 50 years of liming on soil aluminium forms in a Retisol**
Z. KRYZEVICIUS, D. KARCAUSKIENE, E. ÁLVAREZ-RODRÍGUEZ, A. ZUKAUSKAITE, A. SLEPETIENE AND J. VOLUNGEVICIUS 96

Submit your paper online

mc.manuscriptcentral.com/jagricsci

Register to receive the latest news and content from the journal

<https://www.cambridge.org/core/journals/journal-of-agricultural-science>

Cambridge Core

For further information about this journal
please go to the journal web site at:

[cambridge.org/ags](https://www.cambridge.org/ags)



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS