

Cambridge Core

The new home of
Cambridge Journals

cambridge.org/core

Cambridge Core

<https://doi.org/10.1017/S0021859619000042> Published online by Cambridge University Press



CAMBRIDGE
UNIVERSITY PRESS

THE JOURNAL OF AGRICULTURAL SCIENCE

CROPS AND SOILS RESEARCH PAPERS

- Improving the estimation and partitioning plant nitrogen in the RiceGrow model
L. TANG, R. J. CHANG, B. BASSO, T. LI, F. X. ZHEN, L. L. LIU, W. X. CAO AND Y. ZHU 959
- Yield and nutrient gap analysis for potato in northwest China
X. LIU, S. LI, P. HE, P. ZHANG AND Y. DUAN 971

MODELLING ANIMAL SYSTEMS RESEARCH PAPERS

- Dynamics of forage ingestion, oral processing and digesta outflow from the rumen: a development in a mechanistic model of a grazing ruminant, MINDY
P. GREGORINI, F. D. PROVENZA, J. J. VILLALBA, P. C. BEUKES AND M. J. FORBES 980
- An evaluation of efficiency in dairy production using structural equation modelling
J. DREWS, I. CZYCHOLL, W. JUNGE AND J. KRIETER 996

ANIMAL RESEARCH PAPERS

- Effects of offering lupins/triticale and vetch/barley silages alone or in combination with grass silage on animal performance, meat quality and the fatty acid composition of lean meat from beef cattle
P. C. KENNEDY, L. E. R. DAWSON, F. O. LIVELY, R. W. J. STEEN, A. M. FEARON, B. W. MOSS AND D. J. KILPATRICK 1005
- Effects of offering grass silage alone or in combination with lupin/triticale, lupin/wheat or pea/oat whole-crop silages on animal performance, meat quality and fatty acid composition of beef from cattle offered two levels of concentrate
P. C. KENNEDY, L. E. R. DAWSON, F. O. LIVELY, R. W. J. STEEN, A. M. FEARON, B. W. MOSS AND D. J. KILPATRICK 1017
- Effect of dietary reduction and sex class on nutrient digestibility, nitrogen balance, excreted purine derivatives and infrared thermography of hair lambs
E. S. PEREIRA, A. C. N. CAMPOS, E. L. HEINZEN, J. A. D. BARBOSA FILHO, M. S. S. CARNEIRO, D. R. FERNANDES, L. R. BEZERRA AND R. L. OLIVEIRA 1028
- Effects of an intensified human-animal interaction on tail biting in pigs during the rearing period
KATHRIN BÜTTNER, IRENA CZYCHOLL, HEIDI BASLER AND JOACHIM KRIETER 1039
- Cow responses and evolution of the rumen bacterial and methanogen community following a complete rumen content transfer
T. DE MULDER, L. VANDAELE, N. PEIREN, A. HAEGEMAN, T. RUTTINK, S. DE CAMPENEERE, T. VAN DE WIELE AND K. GOOSSENS 1047
- Feathering rate impact on growth and slaughter traits of Japanese quail—Corrigendum
B. Y. MAHMOUD, A. S. ABDEL HAFEZ, A. M. EMAM, A. M. ABDELMONIEM AND S. A. ELSAFTY 1059

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](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://doi.org/10.1017/S0021859619000042> Published online by Cambridge University Press



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS