

European Journal of Agronomy

Vol. 89

CONTENTS

SEPTEMBER 2017

Research Articles

- Improved evaluation of field experiments by accounting for inherent soil variability
K. Heil and U. Schmidhalter
- Early nitrogen deficiencies favor high yield, grain protein content and N use efficiency in wheat
C. Ravier, J.-M. Meynard, J.-P. Cohan, P. Gate and M.-H. Jeuffroy
- Soil nitrogen availability indices as predictors of sugarcane nitrogen requirements
E. Mariano, R. Otto, Z.F. Montezano, H. Cantarella and P.C.O. Trivelin
- Improved persistence of red clover (*Trifolium pratense* L.) increases the protein supplied by red clover/grass swards grown over four harvest years
A.H. Marshall, R.P. Collins, J. Vale and M. Lowe
- Impact of high temperatures on the marketable tuber yield and related traits of potato
Y.-U. Kim, B.-S. Seo, D.-H. Choi, H.-Y. Ban and B.-W. Lee
- Does long-term plastic film mulching really decrease sequestration of organic carbon in soil in the Loess Plateau?
F. Zhang, W. Zhang, M. Li, Y. Yang and F.-M. Li
- Co-learning cycles to support the design of innovative farm systems in southern Mali
G.N. Falconnier, K. Descheemaeker, T.A. Van Mourik, M. Adam, B. Sogoba and K.E. Giller
- Within-field variations in sugar beet yield and quality and their correlation with environmental variables in the East of England
S.A. Mahmood and A.J. Murdoch
- Efficacy of agronomic strategies for mitigation of after-harvest N₂O emissions of winter oilseed rape
B. Vinzent, R. Fuß, F.-X. Mairdl and K.-J. Hülsbergen
- 1 Improving cereal yield forecasts in Europe – The impact of weather extremes
V. Pagani, T. Guarneri, D. Fumagalli, E. Movedi, L. Testi, T. Klein, P. Calanca, F. Villalobos, A. Lopez-Bernal, S. Niemeier, G. Bellocchi and R. Confalonieri
- 16 Cassava yield loss in farmer fields was mainly caused by low soil fertility and suboptimal management practices in two provinces of the Democratic Republic of Congo
K. Kintché, S. Hauser, N.M. Mahungu, A. Ndonga, S. Lukombo, N. Nhamo, V.N.E. Uzokwe, M. Yomeni, J. Ngamitshara, B. Ekoko, M. Mbala, C. Akem, P. Pypers, K.P. Matungulu, A. Kehbila and B. Vanlauwe
- 25 Dynamics of oil and tocopherol accumulation in sunflower grains and its impact on final oil quality
R. González Belo, S. Nolasco, C. Mateo and N. Izquierdo
- 38 Zinc biofortification of wheat through preceding crop residue incorporation into the soil
A.H. Khoshgoftarmanesh, M. Norouzi, M. Afyuni and R. Schulin
- 46 Modelling phenological and agronomic adaptation options for narrow-leafed lupins in the southern grainbelt of Western Australia
C. Chen, A. Fletcher, R. Lawes, J. Berger and M. Robertson
- 53 Modelling productivity and resource use efficiency for grassland ecosystems in the UK
A. Qi, P.J. Murray and G.M. Richter
- 61 88 97 107 124 131 140 148