

# European Journal of Agronomy

Vol. 127

CONTENTS

JULY 2021

## Regular Articles

- Simultaneous assessment of nitrogen and water status in winter wheat using hyperspectral and thermal sensors  
J.L. Pancorbo, C. Camino, M. Alonso-Ayuso, M.D. Raya-Sereno, I. Gonzalez-Fernandez, J.L. Gabriel, P.J. Zarco-Tejada and M. Quemada 126287
- Reduced row spacing improved yield by optimizing root distribution in maize  
J. Gao, M. Lei, L. Yang, P. Wang, H. Tao and S. Huang 126291
- Beneficial microbial species and metabolites alleviate soybean oxidative damage and increase grain yield during short dry spells  
L.G. Moretti, C.A.C. Crusciol, J.W. Bossolani, J.C. Calonego, A. Moreira, A. Garcia, L. Momesso, E.E. Kuramae and M. Hungria 126293
- Estimating nitrogen, phosphorus, potassium, and sulfur uptake and requirement in soybean  
F. Salvagiotti, L. Magnano, O. Ortez, J. Enrico, M. Barraco, P. Barbagelata, A. Condori, G. Di Mauro, A. Manlla, J. Rotundo, F.O. Garcia, M. Ferrari, V. Gudelj and I. Ciampitti 126289
- Influence of pre-crops on growth and phosphorus uptake of maize and wheat in relay strip intercropping  
X. Wu, C. Li, M. Liu, M. Li and Y. Tang 126292
- Sulfur fertilization in soybean: A meta-analysis on yield and seed composition  
A.F.d. Borja Reis, L.H.M. Rosso, D. Davidson, P. Kovács, L.C. Purcell, F.E. Below, S.N. Casteel, C. Knott, H. Kandel, S.L. Naeve, W. Carciochi, W.J. Ross, V.R. Favoretto, S. Archontoulis and I.A. Ciampitti 126285
- Using optimized three-band spectral indices to assess canopy N uptake in corn and wheat  
F. Li, D. Li, S. Elsayed, Y. Hu and U. Schmidhalter 126286
- Individual-based analysis of interactions between plants: A statistical modelling approach applied to banana and cacao in heterogeneous multistrata agroecosystems in Talamanca, Costa Rica  
R. Salazar-Díaz and P. Tixier 126295
- Combining diversification practices to enhance the sustainability of conventional cropping systems  
L. Viguier, N. Cavan, C. Bockstaller, S. Cadoux, G. Corre-Hellou, S. Dubois, R. Duval, O. Keichinger, C. Toqué, A.-L. Toupet de Cordoue and F. Angevin 126279