

## CONTENTS

- Pavlovic V., Pavlovic M., Cerenak A., Kosir I.J., Ceh B., Rozman C., Turk J., Pazek K., Krofta K., Gregoric G.:  
Environment and weather influence on quality and market value of hops ..... 155
- Shen J.Y., Zhao D.D., Han H.F., Zhou X.B., Li Q.Q.:  
Effects of straw mulching on water consumption characteristics and yield of different types of summer maize plants ..... 161
- Šrek P., Hejcman M., Kunzová E.:  
Effect of long-term cattle slurry and mineral N, P and K application on concentrations of N, P, K, Ca, Mg, As, Cd, Cr, Cu, Mn, Ni, Pb and Zn in peeled potato tubers and peels ..... 167
- Qiao Y.J., Li Z.H., Wang X., Zhu B., Hu Y.G., Zeng Z.H.:  
Effect of legume-cereal mixtures on the diversity of bacterial communities in the rhizosphere ..... 174
- Bano A., Ullah F., Nosheen A.:  
Role of abscisic acid and drought stress on the activities of antioxidant enzymes in wheat ..... 181
- Zhu X.C., Song F.B., Liu S.Q., Liu T.D., Zhou X.:  
Arbuscular mycorrhizae improves photosynthesis and water status of *Zea mays* L. under drought stress ..... 186
- Matějková Š., Šimon T.:  
Application of FTIR spectroscopy for evaluation of hydrophobic/hydrophilic organic components in arable soil ..... 192
- Dvořáček V., Prohasková A., Chrpová J., Štočková L.:  
Near infrared spectroscopy for deoxynivalenol content estimation in intact wheat grain ..... 196