

## ORIGINAL SCIENTIFIC PAPERS

- PELÍŠEK I.: Investigation of soil water infiltration at a scale of individual earthworm channels ..... 1
- MOKARRAM M., NAJAFI-GHIRI M., ZAREI A.R.: Using self-organizing maps for determination  
of soil fertility (case study: Shiraz plain) ..... 11
- MORADI G., MEHDINEJADIANI B.: Modelling solute transport in homogeneous and heterogeneous  
porous media using spatial fractional advection-dispersion equation ..... 18
- PAVLŮ L., MÜHLHANSELOVÁ M.: Differences in humic acids structure of various soil types studied  
by DRIFT spectroscopy ..... 29
- KISIC I., BOGUNOVIC I., ZGORELEC Z., BILANDZIJA D.: Effects of soil erosion by water under different  
tillage treatments on distribution of soil chemical parameters ..... 36
- TOBIAŠOVÁ E., BARANČÍKOVÁ G., GÖMÖRYOVÁ E., DĘBSKA B., BANACH-SZOTT M.: Humus substances  
and soil aggregates in the soils with different texture ..... 44
- GOUGOULIAS N., PAPAPOLYMEROU G., KARAYANNIS V., SPILIOOTIS X., CHOULIARAS N.: Effects  
of manure enriched with algae *Chlorella vulgaris* on soil chemical properties ..... 51