

KOREAN JOURNAL OF SOIL SCIENCE AND FERTILIZER

Volume 59 Number 1

February 2026

- Yeon-Gyu Jeong, Jong-Hee Shin, Hye-Rin Jeong, Jung-Gi Ryu** 1
Effects of soil texture, crop type, and mounding on physical properties of greenhouse soils in Gyeongbuk Province from 2016 to 2024
- Tsubasa Izawa, Hosne Ara Dilzahan, Laysa Lorena Silva de Santana, Mateus Oliveira Gomes, Masahide Kobayashi, Andre Freire Cruz** 12
Arbuscular mycorrhizal fungal and bacterial communities in chestnut orchards under different management systems
- Myung-sook Kim, Tae-Gu Lee, Eun-jin Lee, Ha-il Jung, Seung-Gyu Lee, Se-yeong Choi, Mi-Hwa Moon, Jin-Hee An** 25
Assessment of soil EC variation and its influence on crop productivity in plastic film greenhouse
- Dong-hyun Kim, Jung-hun Ok, Min-kyeong Park, Seung-oh Hur, Jeong-woo Son** 39
Effect of black polyethylene mulching on soil temperature and water dynamics during onion and garlic cultivation using a weighable lysimeter
- Jae-Hyuk Park, Jin-Ju Yun, Jae-Hong Shim, Sang-Ho Jeon, Se-Won Kang, Ju-Sik Cho** 51
Effect of phyllite application as a soil amendment on soil chemical properties and crop growth
- Dasom Jeon, Kyung-Do Lee** 61
Identification of soil factors driving yield variability in Baromi2 rice and complementary assessment using Sentinel-2 NDVI
- Kyung-Hwa Han, Min-Hyo Lim, Seok-In Yun** 77
Net CO₂ removal in Korean orchard soils using prunings-derived biochar: effects of pyrolysis type and CH₄ emissions in biochar production stage
- Ho Jin Jung, Young Kyu Hong, Jin Wook Kim, Jeong Min Lee, Sung Chul Kim** 89
Evaluation of biochars derived from rice husk, wood chip, and cow manure: effects on soil properties and lettuce growth
- Min-Hyo Lim, Kyeong-Su Choi, Hyun-Jin Park, Seok-In Yun** 101
Nitrous oxide emission from aerobic soils is controlled by ammonia oxidation processes rather than N application rates
- José Rafael Rodríguez Alonzo, Dayoung Kim, Dimas Liranzo, Naryeong Kang, Jae-Koo Kang, Seong-Bin Kim, Won-Il Kim** 113
Effects of dried Pangola (*Digitaria eriantha*) mulching on Potato (*Solanum tuberosum*) yield and soil properties
- Eun-Su Song, Seung-Beom Lee, Jeong-Woo Son, Kyung-Hwa Han, Jin-Hyeob Kwak** 121
Changes in soil enzyme activity and microbial biomass carbon by fertilization method during open-field ginger cultivation
- Yeo-Uk Yun, Jeong Su Lee, Seon Joong Kim, Yun-Gi Cho, Jin Il Lee, Gwan Hou Kim, Jae-Han Lee, Tae-Gu Lee** 130
Evaluation of soil chemical properties by land-use type and regional variation in agricultural soils of Chungcheongnam-do