

Soil biology

- 103 Effect of salt stress on soybean growth and nodulation under inoculation with soybean rhizobia
Yoshikazu Nitawaki, Hayato Kitabayashi, Maria Luisa Tabing Mason, Akihiro Yamamoto and Yuichi Saeki

Plant nutrition

- 114 Exploration of unknown nickel-containing proteins from plants by liquid chromatography–inductively coupled plasma mass spectrometry
Sho Nishida, Aimi Takahashi, Lumi Negishi, Michio Suzuki and Naoki Furuta
- 120 Limited effects of the soluble organic phosphorus fraction on the root phosphorus uptake efficiency of upland rice genotypes grown in acid soil
Erina Shimamura, Roel Merckx and Erik Smolders

Soil fertility

- 130 Effects of sugarcane substrate inputs on microbial biomass and nitrogen availability in tropical sandy soils of northeast Thailand
Walaiphon Chuwongpanich, Kazumichi Fujii, Yoshiyuki Inagaki, Chie Hayakawa and Natthapol Chittamart
- 139 Effect of changes in the soil calcium-to-magnesium ratio by calcium application on soybeans, *Glycine max* (L.) Merr., growth
Akira Takamoto, Tomoki Takahashi and Kazuki Togami
- 150 Speciation of phosphorus accumulated in fertilized cropland of Aichi prefecture in Japan with different soil properties by sequential chemical extraction and P K-edge XANES
Kaori Ando, Noriko Yamaguchi, Yoshitaka Nakamura, Masahiro Kasuya and Katsutoshi Taki

- 162 Mineral weathering and silicon uptake by rice plants promote carbon storage in paddy fields
Kanako Kusa, Mihoko Moriizumi, Satoru Hobara, Mikoto Kaneko, Shingo Matsumoto, Junko Kasuga and Noriharu Ae
- 171 Rational utilization of Chinese milk vetch improves soil fertility, rice production, and fertilizer use efficiency in double-rice cropping system in East China
Hui Wang, Shan Tang, Shang Han, Min Li, Wenlong Cheng, Rongyan Bu, Yunqing Wang, Weidong Cao and Ji Wu

Fertilizers and soil amendments

- 180 The isolation of fiber flax (*Linum usitatissimum* L.) germplazms with high potassium utilization efficiency
Wengong Huang, Weidong Jiang, Yubo Yao, Xixia Song, Hongmei Yuan, Chuanying Ren, Baiquan Song, Si Chen, Zhongyi Sun, Hui Liao and Qinghua Kang

Environment

- 190 Soil carbon sequestration on a maize-mung bean field with rice straw mulch, no-tillage, and chemical fertilizer application in Thailand from 2011 to 2015
Naruo Matsumoto, Wanida Nobuntou, Nongluck Punlai, Tomohide Sugino, Praisorn Rujikun, Suphakarn Luanmanee and Kensuke Kawamura
- 197 Nitrogen losses in desert oasis agroecosystem in China estimated using a nitrogen balance approach
Rong Yang and Shiyang Chen
- 206 Correction
- 207 Correction
- 208 Abstracts of Nippon Dojo-Hiryogaku Zasshi 91-06