

CONTENTS

- JAPAN PRIZE OF AGRICULTURAL SCIENCE AND THE YOMIURI PRIZE OF AGRICULTURAL SCIENCE**
- 513 Photosynthesis improvement for enhancing productivity in rice
Amane Makino
- JSSSPN AWARD RESEARCH**
- 520 Ecology of methanogenic and methane-oxidizing microorganisms in paddy soil ecosystem
Susumu Asakawa
- SOIL CHEMISTRY AND SOIL MINERALOGY**
- 527 Improving effect of potassium in organic amendments on sodic soils
Limin Tong, Fu Fan and Akira Watanabe
- SOIL BIOLOGY**
- 535 Application of biofertilizer containing *Bacillus pumillus* TUAT1 on soybean without inhibiting infection by *Bradyrhizobium diazoefficiens* USDA110
Rifa Fadhillah Munifah Hasibuan, Minori Miyatake, Hinako Sugiura, Shin-ichiro Agake, Tadashi Yokoyama, Sonoko Dorothea Bellingrath-Kimura, Keisuke Katsura and Naoko Ohkama-Ohtsu
- 540 Optimum range of soil phosphorus fertility needed for effective arbuscular mycorrhizal inoculation of Welsh onions in a non-allophanic Andosol
Takae Suzuki, Toru Uno, Ryosuke Tajima, Toyooki Ito and Masanori Saito
- PLANT NUTRITION**
- 545 Effects of non-uniform salt stress on growth, yield, and quality of tomato
Weihua Wang, Liliang Cai, Zhendong Long, Xue Zhang and Fengyue Zhao
- 557 Accumulation and translocation of selenium in a soil-rice system in Guangxi, China
Zhen Wang, Fei Pang and Wei Huang
- SOIL FERTILITY**
- 566 On-farm assessment of the phosphorus balance of paddy soil fertilized with cow dung compost in mixed crop-livestock systems and with rice straw in conventional practice in Yamagata, Japan
Tung Thanh Nguyen, Yuka Sasaki, Misa Aizawa, Ken-ichi Kakuda, Hiroshi Fujii and Weiguo Cheng
- 576 Response of nitrification and nitrifying microorganisms to different nitrogen sources in the acid Ultisols of Jinyun Mountain
Dalu Guo, Belayneh Bayu, Kaiwen Pan, Si Shen, Jian Zhang, Xianjun Jiang, Zijie Yu, Jianjun Li and Hongyan Luo
- FERTILIZERS AND SOIL AMENDMENTS**
- 585 Amelioration in manganese uptake by a low-cadmium rice cultivar with application of several manganese fertilizers
Aomi Suda, Tadashi Abe and Satoru Ishikawa
- ENVIRONMENT**
- 594 Factors impacting soil organic carbon pool in different types of Andosols in Toya, Hokkaido, Japan
Shinya Iwasaki, Yasuhiko Endo, Ryusuke Hatano and Yo Toma
- 606 Soil microbial community responding to moderately elevated nitrogen deposition in a Japanese cool temperate forest surrounded by fertilized grasslands
Hirohiko Nagano, Masataka Nakayama, Genki Katata, Keitaro Fukushima, Takashi Yamaguchi, Makoto Watanabe, Toshiaki Kondo, Mariko Atarashi-Andoh, Tomohiro Kubota, Ryunosuke Tateno and Jun Koarashi
- ABSTRACT**
- 617 Abstracts of Nippon Dojo-Hiryogaku Zasshi 92-04