

## Soil physics

- 537 Spatial variability of vertical profiles of radiocesium in a paddy field measured by conventional core sampling  
*Shuichiro Yoshida, Hiroaki Yamano, Sho Shiozawa and Kazuhiro Nishida*

## Soil chemistry and soil mineralogy

- 550 Priming effect of *Miscanthus sinensis* derived biochar on brown forest soil  
*Yasuo Iimura, Masaaki Natsuhara, Toshiyuki Ohtsuka, Mitsutoshi Tomotsune, Shinpei Yoshitake and Hiroshi Koizumi*
- 557 The effects of fertilization treatments and cropping systems on long-term dynamics and spectroscopic characteristics of dissolved organic matter in paddy soil  
*Huiqiao Wu, Morimaru Kida, Akiko Domoto, Masayuki Hara, Hitoshi Ashida, Takeshi Suzuki and Nobuhide Fujitake*

## Soil biology

- 566 Improvement of *Camelina sativa* yield using a plant growth-promoting rhizobacterium  
*Hiroki Miyashita and Kounosuke Fujita*
- 570 Dominance of limited arbuscular mycorrhizal fungal generalists of *Sorghum bicolor* in a semi-arid region in Sudan  
*Omer Badi Mohammed Badi, Tilal Sayed Abdelhalim, Mohamed Mutasim Eltayeb, Yasir Serag Alnor Gorafi, Hisashi Tsujimoto and Takeshi Taniguchi*

- 579 Arbuscular mycorrhizal colonization increases yield of mungbean [*Vigna radiata* L.] at moderate level of salinity  
*Mominur Rahman, Md. Ashraf Hossain, Mohammad Eyakub Ali, Faridul Alam and Md. Khairul Alam*

## Plant nutrition

- 589 Evidence for rice Heading date 16 contribution to yield increase under low-nutrient conditions  
*Nobuhiro Tanaka, Saki Yoshida, Hiroki Takagi, Ryohei Terauchi, Akifumi Shimizu and Toru Fujiwara*
- 598 Spore inoculation of *Bacillus pumilus* TUAT1 strain, a biofertilizer microorganism, enhances seedling growth by promoting root system development in rice  
*Ngoc Phuong Ngo, Tetsuya Yamada, Shungo Higuma, Naoya Ueno, Kaya Saito, Katsuhiro Kojima, Masumi Maeda, Hiroko Yamaya-Ito, Naoko Ohkama-Ohtsu, Motoki Kanekatsu and Tadashi Yokoyama*

## Soil genesis, classification and survey

- 605 Comparison of visual and instrumental measurements of soil color with different low-cost colorimeters  
*Naoki Moritsuka, Kensuke Kawamura, Yasuhiro Tsujimoto, Michel Rabenarivo, Andry Andriamananjara, Tovohera Rakotoson and Tantely Razafimbelo*