

Contents

Simple Weir Types and Their Prospects for Small-Scale Irrigation Development in Northern Zambia <i>Alex Lushikanda Kabwe, Masahiro Hyodo, Hidehiko Ogata, Yoshihiro Sagawa, Yoshinao Adachi and Masayuki Ishii</i>	1
Development of a Simple-Concept Water Allocation Model at the Farm-Block-Level for Efficient Water Management <i>Naohisa Nakashima and Tetsuro Fukuda</i>	9
Clarification of Water Use under the Complicated Irrigation System and its Modeling in the Boribo-Bannak River Basin, Cambodia <i>Heng Salpisak, Tadao Yamamoto and Takashi Inoue</i>	17
Improvements in Preservation Properties of Homemade-Style Pickled Cucumber in Cambodia <i>Sokly Sorm, Shuki Muramatsu, Masataka Uchino, Yoshiki Muramatsu, Daiki Oka, Narong Touch, Yuri Tanioka, Takahiko Nakamura, Toru Nakajima, Motoe Sekido, Shotaro Kawakami, Chim Chay, Mari Arimitsu and Machito Mihara</i>	25
Reuse of Unavailable Phosphate in Soils Using Solar Cell-Powered Electrokinetic Treatment <i>Narong Touch and Takahiko Nakamura</i>	32
Impact of a Drip Irrigation System on Planning and Management of Water Delivery in a Large-Scale Irrigation Scheme in Morocco <i>Dayyabu Muhammad Zaharaddeen, Katsuyuki Shimizu, Yuri Yamazaki, Vinay Nangia, Anas Mansouri, Mohamed Belarabi and Lahcen Ousstous</i>	38
Conditions of Bio-Slurry Application in Crop Production in Kampong Cham Province, Cambodia <i>Chan Makara Mean, Lyhour Hin, Sophoanrith Ro, Nareth Nut, Nam Sok, Lytour Lor and Bart Frederiks</i>	45
Determination of Histamine Level and Its Correlation with Viable Bacterial Count in Cambodian Fermented Fish <i>Lengheang Choeng, Chanthol Peng, Leangey Set and Seyha Doeurn</i>	52
Evaluation of Soil Erosion Risk from Weathering Effects on K Factor of RUSLE in Cobija, Bolivian Amazonia <i>Juan Uego Perez and Machito Mihara</i>	59
Assessment of Antibacterial Activity of Lactic Acid Bacteria Isolated from Fermented Foods Against <i>Escherichia coli</i> O157:H7, <i>Proteus penneri</i> and their Potential for Starter Culture <i>Sineth Chev, Siveng Meng, Borarin Buntong, Chinda Chhe and Rithy Chrun</i>	65
Nitrogen Removal from Mining Dewatering and the Fate of Water Release to a River <i>Barry Noller</i>	71
Development of Erosion Protection Zones in the Catchment of the Reservoir “Kalimanci”, North Macedonia <i>Ivan Minchev, Ivan Blinkov, Aleksandar Trendafilov and Bozhin Trendafilov</i>	77
On-farm Effects of Subsurface Drainage System on Chinese Cabbage (<i>Brassica pekinensis</i> L. Rupr.) Production in Rainy Season at Svay Rieng Province, Cambodia <i>Tithya Kang, Saravuth Tum, Vanchey Ros, Nimul Chun, Chhun Hong, Borarin Buntong, Kimchhin Sok, Siranet Roern and Sophoanrith Ro</i>	82

Prediction of Land Use Change through the Cellular Automata-Markov Model: A Case Study of the Upper Sangkae River Basin in Cambodia	91
<i>Vanna Chey, Tadao Yamamoto and Takashi Inoue</i>	
Educational Material Research on the Color of Crayfish for Conversion to Edible Resources	98
<i>Saki Higuchi, Honami Ono, Hiroaki Honda, Sarvesh Maskey, Akira Kurosawa, Toshihiro Suzuki, Nobuyuki Takahashi, Hiromu Okazawa and Kouji Takeda</i>	
Evaluating Water Purification Capacity of <i>Patinopecten yessoensis</i> Shells Inoculated Effective Microorganisms	106
<i>Kosei Moroishi and Machito Mihara</i>	
Impact Assessment of New Dams Construction in Nam Ngum Watershed on Electric Generation at Num Ngum 1 Dam	112
<i>Koshi Yoshida, Keigo Noda, Task Kato and Keoduangchai Keokhamphui</i>	
Verifying Optimum Flying Conditions for UAV Photogrammetry in Assessing Hydro-structural Infrastructures	119
<i>Sarvesh Maskey, Hiyori Iseki, Kiseki Kurashina, Ke Zhang and Hiromu Okazawa</i>	
Information Transfer among Mango Contractors: Sources, Channels, and Priorities	126
<i>Dia Noelle Velasco, Katsumori Hatanaka, Nina Shimoguchi and Ramadhona Saville</i>	
Effect of Bio-slurry and Chemical Fertilizer on Soil Enzyme Activities	134
<i>Moeurb Ang, Hong Cheang, Dyna Theng, Nareth Nut, Lyhour Hin, Lytour Lor, Kasuni H. H. Gamage and Ganga M. Hettiarachchi</i>	
Household Income Diversity of Small-scale Cassava Producers in Vietnam	139
<i>Nien Chau Nguyen, Tamon Baba, Hisako Nomura and Kasumi Ito</i>	
The Effects of Green Manures on Sustainable Agriculture Soil Conservation under Open Field	147
<i>Mala Suon, Sopheak Tith, Thangrak Veu, Pisidh Voe, Socheat Ngy, Sothea Hill and Chhouk Chheang</i>	
Habitat Evaluation of Agricultural Waterways where Environmental Improvement was Practiced for Recreation	153
<i>Masayuki Nitta, Mitsuru Ohira, Muneyuki Aoki and Masahiro Nakajima</i>	
Temperature Sensitivity (Q10) of Organic Carbon in Red-yellow Soils and its Conservation Strategies	163
<i>Keiji Arostegui and Machito Mihara</i>	
National versus Local Climatic Variability and Implications for Communities in Protected Areas: The Case of Lake Malawi National Park	170
<i>Dickson M. Mazibuko, Lameck Fiwa, Maskey Sarvesh and Hiromu Okazawa</i>	