

# International Journal of Environmental Science and Development

## CONTENTS

---

---

### Volume 4, Number 5, October 2013

- Implications of Climate Change Impacts on Regional Maize Production in the United States: Risk Mitigation Strategies and Food Security .....446  
*Xiang Li and Nobuhiro Suzuki*
- Effects of Plant Growth Substances on Biomass and Lipid Production in Diatoms.....452  
*Zhiguo Ju, Lixiao Ding, Kangjun Li, Zhen Ding, Qingna Zhang, and Yuan Li*
- Towards an Automated Guided Vehicle (AGV) in Sprinkler Irrigation.....456  
*Saeid Jafari, Reza Vatankhah Barenji, and Majid Hashemipour*
- Synthetic Seeds Production and Regeneration of *Oxalis triangularis* for Mass Propagation and Conservation.....461  
*Rosna Mat Taha, Noraini Mahmud, Jamilah Syafawati Yaacob, Noorlidah Abdullah, and Sadegh Mohajer*
- Comparative Studies of Forage Yield and Quality Traits among Proso Millet, Foxtail Millet and Sainfoin Varieties.....465  
*Sadegh Mohajer, Rosna Mat Taha, Arash Khorasani, and Elnaiem Elaagib Mubarak*
- Global and Diffuse Solar Radiation in the United Arab Emirates.....470  
*Hassan A. N. Hejase and Ali H. Assi*
- Antimicrobial Activities of Extracts Derived from *in vivo* and *in vitro* Grown *Trifolium pratense* (Red Clover)..... 475  
*Arash Khorasani Esmaeili, Rosna Mat Taha, Behrooz Banisalam, Sadegh Mohajer, and Noor Zalina Mahmood*
- Effects of Irradiance Level on the Growth and Photosynthesis of *Salvia*.....479  
*Yasuhiko Koike*
- Treatment of Landfill Leachate Using *Ganoderma Australe* Mycelia Immobilized on Ecomat.....483  
*Noorlidah Abdullah, Wan Razarinah W. A. R., Noor Zalina Mahmood, and Rosna Mat Taha*
- Carbon Use Efficiency of the First Ratoon Cane by Eddy Covariance Technique.....488  
*Tiwa Pakoktom, Nongpat Chaichana, Jessada Phattaralerphong, and Jate Sathornkich*
- The Distribution and Population of Wreathed Hornbill (*Aceros Udulatus*) in Mount Ungaran Central Java....492  
*Margareta R. and Edi K. Nugroho*
- The Impact of Climate Change on Inundation Potential.....496  
*Ching-Nuo Chen and Chih-Heng Tsai*

Environmental Protection Power Dispatch for Modern Power System.....	501
<i>Po-Hung Chen, Hung-Cheng Chen, Feng-Jih Wu, Li-Ming Chen, and An Liu</i>	
Biological Conversion from Slaughter Blood into Amino Acid Liquefied Fertilizer....	509
<i>Y. W. Jeon, H. J. Kim, Y. H. Cho, and H. M. Yoo</i>	
Stand-Alone Hybrid Generation System Based on Renewable Energy.....	514
<i>Hung-Cheng Chen, Po-Hung Chen, Long-Yi Chang, and Wei-Xin Bai</i>	
Pyrolysis Characteristics of Phoenix Dactylifera Date Palm Seeds Using Thermo-Gravimetric Analysis (TGA).....	521
<i>Mohammed Elamen Babiker, A. Rashid A. Aziz, Morgan Heikal, Suzana Yusup, and Mhadi Abakar</i>	
Isolation and Molecular Identification of an Aerobic Denitrifier.....	525
<i>Hongyu Wang, Kai Yang, Bin Ji, and Yu Jiang</i>	
Wireless Energy Management System for Residential Area.....	529
<i>Hong-Chan Chang and Cheng-Chien Kuo</i>	
Measure on Eco-Efficiency of Thai Growing-Fishing Pig Farms.....	533
<i>C. Rattanapan, T. T. Suksaroj, S. Wongsawass, and W. Ounsaneha</i>	
Cancer Risk Assessment from Trihalomethanes in Community Water Supply at Northeastern Thailand.....	538
<i>Prapat Pentamwa, Benchamaporn Sukton, Tanisa Wongklom, and Sathaporn Pentamwa</i>	
The Adsorption Study of Copper Removal by Chitosan-Coated Sludge Derived from Water Treatment Plant.....	545
<i>Meng-Wei Wan, Chan-Ching Wang, and Chien-Min Chen</i>	
Analysis of Shiitake Environmental Performance via Life Cycle Assessment.....	552
<i>Rungnapa Tongpool and Patcharaporn Pongpat</i>	
Influence of Coagulant Species on Sulfur Oxide (SO <sub>x</sub> ) Emission from the Textile Sewage Sludge Combustion.....	558
<i>Ari Rahman, Naoyuki Kishimoto, and Takeo Urabe</i>	
Vermiremediation and Mycoremediation of Polycyclic Aromatic Hydrocarbons in Soil and Sewage Sludge Mixture: A Comparative Study. ....	565
<i>A. B. Azizi, K. Y. Liew, Z. M. Noor, and Noorlidah Abdullah</i>	
Study on Coupling Degree and Optimal Path between Land Water Resources and Economic Development in Poyang Lake Ecological Economical Zone.....	569
<i>Tian-gui Lv and Ci-fang Wu</i>	
The Effect of <i>Magnaporthe oryzae</i> Conidia on Photosystem in Rice.....	582
<i>Jun Yi, Yungao Hu, Ling Zhang, Guotao Yang, and Liqiong Tang</i>	
Scanning Electron Microscopy Studies and <i>In Vitro</i> Regeneration of <i>Passiflora edulis</i> Sims var. <i>edulis</i> for Conservation.....	586
<i>Rubashiny Veeramohan, Noorma Wati Haron, and Rosna Mat Taha</i>	
Effect of Landfill Leachate on <i>Brassica chinensis</i> Dry Matter Weight and Iron Concentration.....	591

*Reza Farzinebrahimi, R. M. Taha, K. A. Rashid, M. Fadaienasab, and M. K. Yusoff*

Sustainable Biogas Production Potential from Urban Wastewater in Nepal.....	595
<i>S. P. Lohani, A. Chhetri, J. Adhikari, and R. Bakke</i>	
Optimization of Microcystin Extraction for Their Subsequent Analysis by HPLC-MS/MS Method in Urban Lake Water.....	600
<i>Qu Jiang-qi, Zhang Qing-jing, Jia Cheng-xia, Liu Pan, and Yang Mu</i>	
Water Use Efficiency of the First Ratoon Cane by Eddy Covariance Technique.....	604
<i>Tiwa Pakoktom, Nongpat Chaichana, Jessada Phattaralerphong, and Jate Sathornkich</i>	
Life Cycle Assessment of Fish Culture in Thailand: Case Study of Nile Tilapia and Striped Catfish.....	608
<i>Patcharaporn Pongpat and Rungnapa Tongpool</i>	

