

Table of Contents

ICESD 2011 Session 1

Aviation and Global Climate Change <i>Mehri Hashemi Devin and Ali Akbar Sabziparvar</i>	1
Effects of Imidacloprid on the Biodiversity of Soil Microbes in Selected Soils of Malaysia <i>Nasrin Sabour Moghaddam, Mohamad Pauzi Zakaria, Dzolkhifli Omar, Kamaruzaman Sijam and Reza Khakvar</i>	7
Study of Hysteresis in Electrolysis and Photo-electrolysis <i>Sangeeta and Ashok N. Bhaskarwar</i>	11
Effect of Greywater Irrigation on Soil Characteristics <i>A. H. M. Faisal Anwar</i>	15
Water quality changes during aquifer storage and recovery: Quantification of water-sediment interactions and reactive transport modeling. <i>Carlos Descourvieres, Henning Prommer, Carolyn Oldham and Janek Greskowiak</i>	19
Treatment Effect On Coking Wastewater Using Three-phase Biological Fluid-bed With New Ultrastructure Biological Carriers <i>Na Li, Haibiao Liu and Junli Huang</i>	24
Developing and Expanding the Environmental Conflict Resolution Toolkit: Facilitation and Consensus Building for Better Environmental Outcomes <i>John Haydon and Jianbo Kuang</i>	28
Using variable fuzzy set theory and information entropy for air pollution risk assessment in Beijing, China <i>Liyun Yang and Songtao Wu</i>	33
Free Electricity source from trees <i>Ankita Vashishtha</i>	42
Particulate Matter emitted from a Pig Farm in Beijing: A Preliminary Study <i>Roxana Mendoza Huaitalla, Eva Gallmann and Liu Xuejun</i>	45

ICESD 2011 Session 2

The removal of cadmium ions from aqueous solutions using silica support immobilized with 2-hydroxyacetophenone-3-thiosemicarbazone <i>Rajesh Kumar, Thomas N Abraham and S. K. Jain</i>	48
CORPORATE ECOLOGICAL FOOT PRINT (CEF) OF SRM UNIVERSITY TOWARDS SUSTAINABILITY A Pilot Study	53

<i>Nagarajan C, Sai Aditya P and R Jeyalakshmi</i>	
Effects of wind blow and sand burial stress on seedling growth and photosynthetic properties of <i>Caragana microphylla</i> <i>Ha-Lin Zhao, Xue-Yong Zhao, Tong-Hui Zhang and Rui-lian Zhou</i>	57
Investigation of Iran Vulnerability Trend to Desertification with approach of climate change <i>Peyman Mahmoudi, Dostmohammad Kalim and Mohamad Reza Amirmoradi</i>	63
Effects of sheep grazing and precipitation patterns on sandy grassland vegetation in Inner Mongolia, China <i>Ha-Lin Zhao, Tong-Hui Zhang, Xue-Yong Zhao and Rui-Lian Zhou</i>	68
Impeller Submergence Depth on Power Consumption of Mixing Tank <i>Bimesh Kumar and Thiyam T Devi</i>	76
Agitated Pile Composting of Water Hyacinth <i>Ganesh Chandra Dhal, W. Roshan Singh and Ajay S. Kalamdhad</i>	79
Inter-relationships among water, governance, human development variables in developing countries: a database coherence analysis <i>Céline Dondeynaz, César Carmona-Moreno, Andrea Leone and Daoyi Chen</i>	84
Occurrence of Chlorinated Paraffins in Bavarian House Dust Samples <i>M. Coelhan, B. Hilger, H. Fromme and W. Völkel</i>	88
Wetlands management for Little Crane (<i>Porzana parva</i>) conservation in a “Natura 2000” site <i>A.N. Stermin, L.R. Pripon, A. David and I. Coroiu</i>	91
ICESD 2011 Session 3	
Effect of irrigation and fertilizer on sandy grassland productivity in Horqin Sandy Land, North China <i>Tonghui Zhang and Haling Zhao</i>	95
Study on adsorption of heavy metal ion in metallurgical wastewater by sepiolite <i>Xiuyan Zhou, Xiangxin Xue and Wenming Jiang</i>	100
Identifying Vulnerability Pattern in a Flood Prone Micro-Hotspot of Mumbai, India <i>Subhajyoti Samaddar, Roshni Chatterjee, Bijay Anand Misra and Hirokazu Tatano</i>	104
Dual Impact Of Climate Change Intensifying vulnerability <i>Achala Gupta</i>	110
Consequence Analysis for probable accidents of filter separators installed in Gas Pressure Reduction Stations <i>Mohammad Sadegh Yousefzadegan, Amir Masoud Masoudi, Yaser Kazemi Ashtiani, Masoud Kambarani and Seyed Iman Pishbin</i>	115

Environmental issues and its impacts associated with the textile processing units in Tiruppur, Tamilnadu. <i>Jayanth sarathi N, Karthik R, Logesh S, Srinivas Rao K and Vijayanand K</i>	120
Climatic Impacts of Green House Emissions A Case Study on the Public and Private Transportation Sectors of the Asia Pacific <i>Avinash Shankaranarayanan and Christine Amaldas</i>	125
Turbulence Modeling Around Piers of Shadervan Bridge in Karun River <i>Seyed Majid Mosaddad, Mehdi Delphi, Fereidoon Shirvani and M. Mahmoodian Shooshtari</i>	130
Land Evaluation for Extensive Recreation Using Spatial Multi Criteria Evaluation Method <i>Seyed Ali Jozi, Narges Zaredar and Sahar Rezaian</i>	133
Water Consumption Management using WEAP&Conceptual Models (Case study: Golestan Province - Iran) <i>Sahar Rezaian and Seyed Ali Jozi</i>	137
ICESD 2011 Session 4	
Evaluation of Microbial quality of the drinking water of Duhok province/Kurdistan region of Iraq <i>Hassan Amin Al-mezori and Karzan A. M. Hawrami</i>	141
Genotypic Frequency of Calpastatin Gene in Lori Sheep By PCR-RFLP Method <i>Shahram Nanekarani, Nematollah Asadi and Saber.Khederzadeh</i>	148
Utility of Cerium(IV)Phosphomolybdate as a cation exchanger and dye adsorbent <i>A.P Apsara and B.Beena</i>	151
Adsorption of two azo reactive dyes by tannery sludge activated carbon: effect of temperature and pH <i>Geethakarathi A. and Phanikumar B R.</i>	154
Improved Method of Desalination of Seawater with Electric Power Generation using Solar Energy <i>Mukund.N and Muthu Raman.V</i>	158
Remediation of Cr(VI) contaminated soil by Zero-Valent Iron Nanoparticles (nZVI) entrapped in Calcium Alginate Beads <i>Ritu Singh, Virendra Misra and R. P. Singh</i>	162
Prevalence of Geophagia and its possible implications to health - A study in rural South Africa <i>G George and E Ndip</i>	166
Perennial Trends of Wastewater Discharge and Pollutant Content in Rivers of Shanghai <i>Kang Jiancheng, Yan Guodong and Wang Guodong</i>	170
Academic public-private partnership: a solution for sustainable development	174

Adrian Macarie, Adrian Lesenciuc and Mircea Boşcoianu

- Selective Action of Chlorine Disinfection on Different Coliforms and Pathogens Present in Secondary Treated Effluent of STP. 179
Dinesh Kumar, Neha Tyagi and A.B.Gupta

ICESD 2011 Session 5

- Implementation of Ambient Energy Harvesting from Air for ULP Devices as a Renewable Energy Source 185
B.R.Shashank, G.SharanKumar, K.Kalaiarasi,A.Shalini and A.Raagavendra Prabu

- “Environmental Concerns through Web Communication” 189
Charu lata Singh and Kota Mallikarjun

- Somatic embryogenesis and plant regeneration in *Crocus vernus* 199
Iyyakkannu Sivanesan, Mi Young Lim, Eun Hae Jo and Byoung Ryong Jeong

- Impact of Global Warming on severity of Heat Stroke 202
Harishankar.N and J.Srinivasan

- Numerical simulation of a turbidity current flowing over a solid obstacle 207
Afshin Eghbalzadeh and Mitra Javan

- 2D width-averaged numerical simulation of density current in a diverging channel 212
Mitra Javan and Afshin Eghbalzadeh

- Reusing of stone waste in various industrial activities 217
Elham Khalilzadeh Shirazi

- Indoor winter recreational site selection in arid and semi arid mountainous regions 220
Parvaneh Rezakhani and Narges Zaredar

- Future Sensors and Utilization of Sensors in Chemical Industries with Control of Environmental Hazards 224
K. Nirmal Kumar, R.Prabakaran, V.R. Sarma Dhulipala and P.Ranjith

- Compilation of a pattern for Environmental Auditing of Roads in Islamic republic of Iran 229
Mahmood Ameri and Fatemeh Zahed

ICESD 2011 Session 6

- Preparing and developing the indexes of sustainable development of transportation in I.R. Iran 234
Mahmood Ameri and Fatemeh Zahed

- Analyzing the Microeconomic Determinants of Travel Frequency using the Com-Poisson Regression model 240
R. Sultan and N. Mamode Khan

- Assessing Indian Cities for Vulnerability to Climate Change 246

<i>Ulka Kelkar, P. Balachandra and Anjula Gurtoo</i>	
A Novel Method for the Preparation of Core-Shell Silica - 12- Tungstophosphoricacid Nanoparticles for t-Butylation of phenol <i>Rosilda Selvin, Hsiu-Ling Hsu and L. Selva Roselin</i>	251
Clean Electricity production by Solid Oxide Fuel Cell-Waste Heat Recovery Boiler arrangement in conjunction with a Gas Turbine --Clean Technology by Systems Integration <i>Arjun Mahalingam, Mayank Vaish and Shirish Agarwal</i>	255
Polymer Composites Sustainability: Environmental Perspective, Future Trends and Minimization of Health Risk <i>V.P. Sharma, V. Agarwal, S. Umar and A. K. Singh</i>	259
Street/Inland-water (intermodal) Optimisation Model: For Municipal Solid Waste Collection & Transportation <i>Fathi A. Rhoma, Mandar Jawale and Bernd Noche</i>	262
Evaluation of Sustainability index for Urban Water Management System <i>Reena Popawala and N C Shah</i>	267
Advanced Oxidation Processes for Treatment of Textile and Dye Wastewater: A Review <i>Shashank Singh Kalra, Satyam Mohan, Alok Sinha and Gurdeep Singh</i>	271
Climate Change: Developing Countries and the Principle of Equity <i>Deepika Sriram and Medha Vikram</i>	276
Green usage of fossil fuels with solid oxide fuel cell <i>H.Kazemi Esfeh and T.M.Salehi</i>	281
Modelling Hydrodynamics for Water Quality of the Dwarka Region (Gujarat) <i>Rohit Goyal</i>	286
Hydrodynamic Modelling for Salinity of Singapore Strait and Johor Strait using MIKE 3FM <i>Rohit Goyal and Prameet Rathod</i>	295
Characteristics of Stormwater Runoff in Different Land Use Areas <i>Priyantha Ranjan Sarukkalige</i>	301
Food security, genetically modified crops and environment <i>Rakesh Kumar Gupta</i>	305
Author index	311