

Table of Contents

ICBEE 2013

Efficacy of Dielectrophoresis in Preventing Sedimentation of High Density Bio-Particles in Micro-Mixers <i>Siddharth Mohan, Shankar Anand Deka and Niti Nipun Sharma</i>	1
Chemical and Mineralogical Characterization and Soil Reactivity of Brazilian Waste Limestones <i>Leyser Rodrigues Oliveira, Humberto P. Cunha, Nilvânia M. Silva and Ivani P.M. Pádua</i>	8
Particle size and Zeta Potential of ZnO <i>Roman Marsalek</i>	13
Kinetic Modelling of Non – Catalytic Pyrolysis of Waste Jute in a Fixed Bed Pyrolyzer <i>R. Chowdhury, S. Poddar and S. De</i>	18
Fenton and Photo-Fenton Oxidation Processes for Degradation of 3-Aminopyridine from Water <i>Rahul S.Karale, Basavaraju Manu and S.Shrihari</i>	24
Policy Analysis for Performance Assessment of Integrated Coastal Zone Management Initiatives for Coastal Sustainability <i>Y. Beeharry, T. Makoondlall-Chadee and C. Bokhoree</i>	29
Assessment of Environmental and Health Risks Associated with the Management of Medical Waste in Mauritius <i>C. Bokhoree, Y. Beeharry, T. Makoondlall-Chadee, T. Doobah and N. Soomary</i>	35
Influence of Substituents on Reactivity and Reaction Mechanism of SN Reaction of Some Organophosphorus Compounds; Relied on Linear Free Energy Relationship <i>Bilkis Jahan Lumbiny, Zhang Huib and M. Azizul Islam</i>	41
Optimization of Bone Drilling Process with Multiple Performance Characteristics Using Desirability Analysis <i>Rupesh Kumar Pandey and S. S. Panda</i>	47
Oxygen Mass Transfer in Biological Treatment System in the Presence of Non-Aqueous Phase Liquid <i>Anal Chavan and Madhusudan</i>	53
Numerical Study of Flow inside the Micro Fluidic Cell Sense Cartridge <i>Praveen Gadad, Ramsatish Kaluri, Venkat Kalambur and Sudipa Galgalkar</i>	58
Biogas Production in the Anaerobic Digestion of Paper Sludge	64

Electrochemical Oxidation of Methylene Blue using Lead acid battery anode <i>Indu M S, A K Gupta and C Sahoo</i>	69
Soil Chemical Analysis of Secondary Forest 30 Years after Logging Activities at Krau Wildlife Reserve, Pahang, Malaysia <i>Gufirin Amlin, Mohd. Nazip Suratman and Nurun Nadhirah Md Isa</i>	74
Evaluation of Isocyanates Concentration in the Air of the Foam-Producing Section in a Car Manufacturing Company <i>M. Jabbari, S. B. Mortasavi, H. Asilian, A. Khavanin and A. Soleimani</i>	81
Carbon Dioxide Sequestration in Alkaline Top Soil Using Alkaline wastes <i>Richa Sehgal, Luv Sehgal, Arvind Kumar Nema and Prakhar Gupta</i>	86
Mechanical Properties of Activated Carbon (AC) Coconut Shell Reinforced Polypropylene Composites Encapsulated with Epoxy Resin <i>Salleh Z., Islam M. M., M. Y. M. Yusop and M. A. Mun'aim M. Idrus</i>	92
Variation of Flux in Membrane Distillation <i>Selvi S. R and R. Baskaran</i>	97
Heavy Metal Lead in Filipino Staple Food as Studied in Metro Manila, Philippines <i>Judilynn N. Solidum</i>	102
SEM Study of Oil Adsorption on the Surface of <i>Khaya Senegalensis</i> Dried Leaves <i>Ziyad Said and Habsah Alwi</i>	108
Immunogenicity of Malaria Vaccine Candidate - <i>Plasmodium falciparum</i> Merozoite Surface Protein 5 (PfMSP5) Expressed in <i>Bacillus subtilis</i> <i>Chittibabu Gottimukkala, Charles Ma, Hans J. Netter, Santosh B. Noronha and Ross L. Coppel</i>	113
Determination of Energy Changes and Length of Micro Cracks Formed in Cotton Fibre Reinforced Natural Composite Laminate Due to Environmental Degradation. <i>Akula komuraiah, N. Shyam Kumar and B. Durga Prasad</i>	120
Sustainable Building Blocks for Today's Chemistry: Hydrophilic/lipophilic Balance of Cellulosic Nanobiomaterials <i>Saeed Jafarirad</i>	126
Isolation, Identification of a Halotolerant Acid Red B Degrading Strain and Its Decolorization Performance <i>Cai Feng, Chen Fang-yan and Tang Yu-bin</i>	131
Investigation of Allelopathic Potentiality of The Himalyan Lichen <i>Parmelia reticulata</i> Tayl. Against <i>Phalaris minor</i> retz. <i>Mayurika Goel, Archana Rani, P. Dureja and P. Uniyal</i>	140

Application of Coagulation-Advanced Oxidation Process by O ₃ /GAC in the Fan Belt Wastewater Treatment <i>Enjarlis</i>	145
Pharmacokinetics Study of Metformin - Mathematical Modelling and Simulation <i>Sukankana Chakraborty, Kriti Arora, Prakash Kumar Sharma, Arijit Nath and Chiranjib Bhattacharjee</i>	151
Influence of Pyrrole Concentration on Cracking Activity of n-hexane in a Performance FCC Catalyst and Additives <i>Jitendra Kumar, K. R. Gota and Bharat Modhera</i>	160
Oxalic Acid Modified Rice Hull as a Sorbent for Methylene Blue Removal <i>Sook-Mun Lee and Siew-Teng Ong</i>	166
Comparison of Chemical Pretreatment Methods for Cellulosic Biomass <i>Marzieh Badiei, Nilofar Asim, Jamilah M Jahim and Kamaruzzaman Sopian</i>	171
WO ₃ Modification by Synthesis of Nanocomposites <i>Nilofar Asim, M F Syuhani, Marzieh Badiei and M Ambar Yarmo</i>	176
Selection of Solvent in Supercritical Antisolvent Process <i>Rahul Kumar, Hari Mahalingam and Krishna K. Tiwari</i>	182
A Study on Handling of Hazardous Chemicals in Engineering Industries <i>P. Sivaprakash, L. M. Karthikeyan and Sebastian joseph</i>	188
Rheological and Swelling Behavior of pH Sensitive Hydrogel Particles <i>Lomas K. Tomar, Charu Tyagi, Yahya E. Choonara, Pradeep Kumar and Viness Pillay</i>	193
ICCEN 2013	
Fracture Modelling of Crack Propagation in Steel <i>Shahriar Shahbazpanahi and Alaleh Kamgar</i>	198
Creep Behavior of Polyethylene Modified Bituminous Mixture <i>Madzlan Napiah, Noor Zainab Habib and Ibrahim Kamaruddin</i>	203
Application of Particle Swarm Optimization Algorithm for Computing Critical Depth of Horseshoe cross Section Tunnel <i>Ayoub Bahmanikashkooli, Majid Zare, Bahman Safarpour, and Mostafa Safarpour</i>	208
Ambient Vibration Tests and Finite Element Analysis for Dynamic Properties of Brick Masonry Inverted Bell-Shaped Chedi <i>Chayanon Hansapinyo and Nakhorn Poovarodom</i>	213
Seismic Performances of Brick Masonry Inverted Bell-Shaped Chedi <i>Chayanon Hansapinyo</i>	218

Effect of Curing Methods on Efficiency of Curing of Cement Mortar <i>Yash Nahata, Nirav Kholia and T. G. Tank</i>	223
Developing a Five-Year Maintenance and Rehabilitation (M&R) Plan for HMA and Concrete Pavement Networks <i>Hakan Sahin, Paul Narciso, and Narain Hariharan</i>	231
An Approach to Produce a GIS Database for Road Surface Monitoring <i>Karwan Ghazi Fendi, Sarhat Mustafa Adam, Nick Kokkas, and Martin Smith</i>	236
Environmentally Sustainable Concrete Curing with Coloured Polythene Sheets <i>Manish A. Kewalramani</i>	242
Response of Anchor in Two-Phase Material under Uplift <i>K. N. Rajesh and V.Shreni</i>	248
Organizational Culture Approach and Effects on Turkish Construction Sector <i>Gulcag Albayrak and Ugur Albayrak</i>	253
Freeze-Thaw Durability of Blended Harman Bricks That Used As Infill Material in Reinforced Concrete Framed Buildings <i>Mehmet Canbaz and Ugur Albayrak</i>	259
In-Plane Shear Behavior of FRP Strengthened Masonry Walls <i>Saghafi, M. H, Safakhah, S, Kheyroddin, A and Mohammadi,M</i>	265
Determination of Bearing Capacity of Nail Joints in Timber-Cement Boards <i>Kristyna Vavrusova, Antonin Lokaj and Libor Zidek</i>	270
Acid Sulphate Soil Interaction with Groundwater: A Remediation Case Study in East Trinity <i>A. Vahedian, S. Asadzadeh Aghdaei and S. Mahini</i>	275
Comparison of Bearing Capacity of Multilayer Glasses Depending on Their Thickness <i>Eva Rykalova and Radek Fabian</i>	282
Evaluate Performance of Precast Concrete wall to wall Connection <i>Ramin Vaghei, Farzad Hejazi, Hafez Taheri, Mohd Saleh Jaafar and Abang Abdullah Abang Ali</i>	287
A Good Dry Powder to Suppress High Building Fires <i>Liu Haiqiang, Zong Ruowen, Gao Jiaxin, Lo Siuming and Hu Yuan</i>	293
Effects of Wind and Adjacent High Rise on Natural Smoke Extraction in an Atrium with Pitched Roof <i>Haihang Li, Chuangang Fan and Jian Wang</i>	298
Erection and Construction HSE MS Procedure	304

<i>Hamad Al-Mebayedh</i>	
An Efficient and Reliable Structural Health Monitoring System for Buildings after Earthquake <i>M. Roghaei and A. Zabihollah</i>	311
Comparison of Mechanical Properties of Mortar Containing Industrial Byproduct <i>Swaptik Chowdhury, Sangeeta Roy, Aastha Tashkent Maniar and Om Suganya</i>	319
Tapered Beam Axial Vibration Frequency: Linear Cross-Area Variation Case <i>Farid Chalah, Salah Eddine Djellab, Lila Chalah-Rezgui, Kamel Falek and Abderrahim Bali</i>	325
Transverse Vibration Analysis of Uniform Beams under Various Ends Restraints <i>Lila Chalah-Rezgui, Farid Chalah, Kamel Falek, Abderrahim Bali and Ammar Nechnech</i>	330
Experimental and Numerical study of the Effect of Flow Separation on Dissipating Energy in compound Bucket <i>Neda Sharif and Amin Rostami Ravori</i>	336
A Simple Model for Calculating the Fundamental Period of Vibration in Steel Structures <i>Dia Eddin Nassani</i>	341
Drawing <i>Kampung</i> through Cognitive Maps Case Study: Jakarta <i>Antony Sihombing</i>	349
Fundamental Vibration Period of SW Buildings <i>Farid Chalah, Lila Chalah-Rezgui, Kamel Falek, Salah Eddine Djellab and Abderrahim Bali</i>	356
Vent Location Impacts on Building Compartment Fire under Natural Roof Ventilation <i>Jiaqing Zhang, Shouxiang Lu, Changhai Li and Richard Kwok Kit Yue</i>	362
Experimental Study on the Temperature Distribution in an Emergency Staircase of High-rise Building <i>W. X. Shi, J. Ji, J. H. Sun, S. M. Lo, C. G. Fan and L. J. Li</i>	367
Hysteresis Characteristics of Shear Panel Damper using SLY120 <i>Jaehyouk Choi and Daniel Y. Abebe</i>	372
Evaluation Strength Nano Geogrid Concrete Mats with High Resistance Using Nanotechnology Laboratory Model <i>Alireza Naseri, Ramin Vafaeipour Sorkhabi and Masoud Naseri</i>	378
Optimization of the Castellated Beams by Particle Swarm Algorithms Method <i>Ramin Vafaeipour Sorkhabi, Alireza Naseri and Masoud Naseri</i>	383
Axial Crushes Simulation of Thin-Walled Square Aluminum Alloy 6061-T5 Foam-Filled Section	389

Azrol Jailani and A. Othman

Off-Axis Crushes Simulation of Thin-Walled Tapered Tubes Inserted with Foam-Filled Structures 394

A. Othman and Azrol Jailani

Out of plane behavior of calcareous masonry panels strengthened by CFRP 399

Laura Anania, Giuseppe D'Agata, Cristian Giaquinta, Antonio Badalà

AuthorIndex 405