

Table of Contents

Preface	v
Organizing Committees	vii
ICCCP 2011 Session 1	
Photocatalytic Decolorization of Coralene Dark Red 2B Azo Dye by Using Calcium Zincate Nanoparticles in Presence of Natural Sunlight <i>Yogendra. K, Mahadevan. K. M, Madhusudhana. N, Suneel Naik and Gopalappa. H</i>	8
Microstructure Studies on the Effect of the Alkaline Activators Ratio in Preparation of Fly Ash-Based Geopolymer <i>A. M. Mustafa Al Bakri, H. Kamarudin, M. N. Norazian, C. M. Ruzaidi, Y. Zarina, A. R. and Rafiza</i>	13
Preliminary Study on Effect of NaOH Concentration on Early Age Compressive Strength of Kaolin-Based Green Cement <i>H. Kamarudin, A.M. Mustafa Al Bakri, M. Binhussain, C.M Ruzaidi, M. Luqman, C.Y. Heah and Y.M. Liew</i>	18
Gamma Radiation Effects on Benzoxazine Monomer: Curing and Thermal Properties <i>Sunan Tiptipakorn, Apinya Duangchan and Yingpit Pornputtanakul</i>	25
ICCCP 2011 Session 2	
Identification of a Novel <i>Phoma</i> sp. with Tangerine Peel Degrading Activity and Cellulolytic Enzymes from the Fungus <i>Jung-Youn Choi, Chang-Jun Cha, Yong Jin Kim, Jae-Jin Kim and Jeong-Jun Yoon</i>	30
Optimization Approach to Minimize Energy Consumption in Pasteurized Milk Process <i>Sathit Niamsuwan, Paisan Kittisupakorn and Iqbal Mohammed Mujtaba</i>	35
Mechanically Reinforced Glassy Epoxy Nanocomposites Using a Lamellar Mesostructure <i>In Park, Jin Kie Shim and Kyung Ho Choi</i>	40
Utilization of Galvanic Sludge as Raw Material for Production of Glass <i>Ozgul Dere Ozdemir, Aysel Kanturk Figen and Sabriye Piskin</i>	45
Dehydroxylation Reaction Kinetic Mechanism of İnderite Mineral <i>Mehmet Burcin Piskin and Halit Eren Figen</i>	50
ICCCP 2011 Session 3	
Synthesis of Zinc Borate: Effects of Different Modifying Agents and Isopropyl Alcohol on Yield and Hydrophobicity by Using Zinc Carbonate <i>Nurcan Tugrul and Nil Baran Acarali</i>	55
Production of Methyl Borate for Sodium Borohydride (NaBH ₄): Hydrogen Storage Medium <i>Sabriye Piskin and Muge Sari Yilmaz</i>	59
Neutron Absorption Capabilities of Turkish Colemanite Minerals <i>Emek Moroydor Derun and A. Seyhun Kipcak</i>	64

Synthesis of Na-x Hydrate Zeolite from Fly Ash and Amorphous Silica from Rice Husk Ash by Fusion with Caustic Soda Prior to Incubation <i>Pattaranun Thuadaj and Apinon Nuntiya</i>	69
CBM and CO ₂ Sequestration in India: Solution to India' s Growing Energy Needs and Mitigation of Global Warming <i>Keka Ojha, B. Karmakar, A. Mandal and A. K. Pathak</i>	75
ICCCP 2011 Session 4	
Synthesis of Ethyl 2-((E)-3-(E) benzylideneamino)-4-(2-(4'-substituted phenyl)hydrazono) -5-oxo-4,5- dihydro-1H-pyrazol-1-yl) Acetate Derivatives <i>Nagaraju G, Kishore Kumar k, Spoorthy Y.N., Jayaveera K.N and Ravindranath L.K</i>	80
Synthesis of Y ₂ O ₃ Nanoparticles by Modified Transient Morphology Method <i>Zobadeh Momeni Larimi, Ahmad Amirabadizadeh and Amir Zelati</i>	86
A NUMERICAL ANALYSIS IN PIEZOELECTRIC FAN SYSTEMS FOR COOLING OF ELECTRONIC DEVICES <i>Jiho Park and Eunpil Kim</i>	91
Effect of Tween 80 on the Mechanical and Thermal Properties of Solution-Cast Blends of Poly(lactic acid) and Cellulose Acetate Butyrate Films <i>Sutinee Girdthep, Winita Punyodom, Robert Molloy and Wasinee Channuan</i>	95
Simulation and Optimization of H ₂ S Expulsion from Crude Oil with the Use of Equilibrium Model <i>Reza Vaezi, Hossein Atashi and Farshad Farshchi Tabrizi</i>	101
ICBBT 2011 Session 5	
Hydrogen Production via Oxidative Steam Reforming of Biodiesel By-products over Ni/CeO ₂ -ZrO ₂ /Al ₂ O ₃ Catalyst <i>Krongthong Kamonsuangkasem, Supaporn Therdthianwong and Apichai Therdthianwong</i>	107
FTIR Study for the Cr(VI) Removal from Aqueous Solution Using Rice Waste <i>Tarun Kumar Naiya, Biswajit Singha and Sudip Kumar Das</i>	114
GreenFone "An Innovative Green Solutions for Wireless Devices" <i>M.L.Naarayan, S.Srikanth, Hussain Yunus and S.Vigneshwaran</i>	120
Corrosion Inhibition of Al6061- SiCp Composite in 0.5 M Hydrochloric Acid <i>U Achutha Kini, Prakasha Shetty, S Divakara Shetty and M Arun Isloor</i>	127
Synthesis, Characterization and Antitumor Activity Studies of [UO ₂ (HMBUD)] ⁺² , [UO ₂ (HMND)] ⁺² , [UO ₂ (HMPBD)] ⁺² Complexes on HT29 and T47D Cell Line <i>Mohammad Hossein Farjam and Mohammad Kazem Mohammadi</i>	133
ICBBT 2011 Session 6	
Hydrodesulfurization Reaction: Alumina- Titania Supported Catalysts <i>Peyman Moradi and Matin Parvari</i>	137
Controlled Release from Coated Polydisperse Particles <i>Boris Golman</i>	141

Synthesis of BaCO ₃ Nanopowder by the Gel-combustion Method at Different Calcination Temperatures and Characterization of the Samples by TEM and XRD <i>Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany and Zobadeh Momeni Larimi</i>	146
Solid Phase Extraction Trace Lead using Amberlite XAD-2000 Resins prior to Determination by Flame Atomic Absorption Spectrometry <i>LI Qingbin, CAO Yunli and CHENG Yonghua</i>	151
Absorptive Removal of Copper from Aqueous Solution by Biosorbents <i>LI Qingbin, BAI Qing, XU Fu, ZHANG Qiuxia and CHU Songmao</i>	156
ICCCP 2011 Session 7	
Assessment and Improvement of Energy Utilization in Crude Palm Oil Mill <i>Kritsana Sommart and Suneerat Pipatmanomai</i>	161
Combustion Characteristics of Sawdust in a Bubbling Fluidized Bed <i>Srinath Suranani and Venkat Reddy Goli</i>	167
Simulation and Optimization of DE-Ethanolizer Tower <i>H.Kazemi Esfeh and I.Aalipour mohammadi</i>	173
Cellulosic Bioethanol from <i>Clostridium Thermocellum</i> Fermentation <i>Kwanchanok Viravaidya, Waranya Tangjerdjaras and Chakrit Tachaapaikoon</i>	178
Determination of θ Acceptance Range in the Distillation Columns Design by θ Method of Convergence <i>M. Jahandideh and H. Kazemi Esfeh</i>	184
ICCCP 2011 Session 8	
Assessment of the Water Quality of Mamba River of Mts. Palaypalay/Mataas na Gulod, Southern Luzon, Philippines <i>Felipe B. Martinez, Ma. Beata B. Mijares and Imelda C. Galera</i>	189
Calculation of Energy Interaction and Electric Dipole Intensity Parameters to Explore the Interaction between the Trivalent Praseodymium and Uracil Using 4f-4f Transition Spectra as an Absorption Probe <i>Victory Devi Ch. and Rajmuhon Singh N</i>	195
Research on a Dehumidifier of Liquid Desiccant Type Solar Air- Conditioning System for Full Year-round Use <i>Agung Bakhtiar, Fatkhur Rokhman and Choi Kwang Hwan</i>	200
Catalytic Decomposition of Hydroxylammonium Nitrate Monopropellant <i>Charlie Oommen, Santhosh Rajaraman, R Arun Chandru and R Rajeev</i>	205
Unsteady State Heat Transfer in Externally Heated Magnesium Thermic Reduction Reactor: An overview <i>Harekrushna Sutar and Abanti Sahoo</i>	210
ICCCP 2011 Session 9	
Triethylammonium Halochromates, (C ₂ H ₅) ₃ NH ⁺ [CrO ₃ X] ⁻ (X=F, Cl) , Reagents for Efficient Oxidation Coupling of Thiols to Disulfides <i>Mohammad Kazem Mohammadi, Shahriare Ghamamy and mohammad Hossein Farjam</i>	215
Acid Rain in Distilleries in Pakistan <i>Syed Mohammed Aqeel</i>	220

Factors Affecting Selection of Tubes of Heat Exchanger <i>N. Farhami and A. Bozorgian</i>	223
Predicting Exposure Levels of Respirable Particulate Matter (PM _{2.5}) and Carbon monoxide for the Cook from Combustion of Cooking Fuels <i>Vinod Joon, Harshika Kumari and Avinash Chandra</i>	229
CARBON MONOXIDE AND NITROGEN OXIDE EMISSIONS FROM TRADITIONAL AND IMPROVED BIOMASS COOK STOVES USED IN INDIA <i>Harshika Kumari, Vinod Joon, Avinash Chandra and S.C. Kaushik</i>	233
Evaluation of Oxidative-Antioxidative Balance in Serum of Patients With Non Acute Hepatitis Virus Type B <i>Rasha Hasan Jasim</i>	237
Highly Selective Chromogenic Ionophores for the Recognition of Cerium (IV) Based on a Water-soluble Azocalixarene Derivative <i>Nguyen Thi Ngoc Le, Le Van Tan and Le Ngoc Tu</i>	245
Author Index	251