

## **POSTER SESSION A, (Tuesday, March 9, 2010, 20:30-21:30)**

### **Biological Process Engineering**

- A1** Spectrophotometric Analysis of Fulvic Acid Solutions  
Duygu ÖZTAN (Turkey)
- A2** Antimicrobial biomaterials based on poly(lactic-co-glycolic acid) dispersed with single-walled carbon nanotubes - Seyma ASLAN(USA)
- A3** Blood Glucose Control Algorithms for Type 1 Diabetic Patients  
Eda SEMİZER (Turkey)
- A4** Amperometric hydrogen peroxide biosensor based on covalent immobilization of horseradish peroxidase on copolymer poly(glycidyl methacrylate-co-vinylferrocene)  
Emre ÇEVİK (Turkey)
- A5** A novel amperometric urea biosensor based on copolymer of pyrrole-PAMAM dendritic wedges- Emre ÇEVİK (Turkey)
- A6** Preparation of ferrocene-modified polypyrrole derivative and its application in glucose biosensor- Emre ÇEVİK (Turkey)
- A7** Adsorption behavior of herbicides onto biodegradable poly ( $\epsilon$ -caprolactone)  
Orkun Ovez NALÇAÇI (Germany)
- A8** Kinetic Modeling the Influence of pH on Escherichia coli Fermentation  
Merve ŞAHİN (Turkey)
- A9** Biodepyritization of high sulphur lignites from Maritza East basin, Bulgaria  
Stefan MARINOV (Bulgaria)
- A10** Self-Assembly and Mesoscopic Structure in Complex Coacervates of Proteins with Stiff and Flexible Polyelectrolytes- A. Başak KAYITMAZER (Turkey)
- A11** Enantioselective R-1-Phenylethanol Production using Free and Immobilized Lactobacillus kefir- Özlem AYDOĞAN (Turkey)
- A12** The Effects of Biopolymers on the Barium Sulfate Crystal Growth  
Emel AKYOL (Turkey)
- A13** Effects bioprocess operation parameters on recombinant human growth hormone production by Pichia pastoris – Bahar İNANKUR (Turkey)
- A14** The Buffering Effect of Natural Zeolite on Gastric Disturbance  
İlker POLATOĞLU (Turkey)
- A15** pH Conditions Influence Recombinant Protein Production in Bacillus subtilis  
Özge Deniz YILMAZ (Turkey)
- A16** Directed mutation of the enhanced green fluorescent protein for biosensor development - Mária PÁLFI (Romania)
- A17** Extractive Separation of Glutaric Acid by Aliquat 336 in Different Solvent  
Ş. İsmail KIRBAŞLAR (Turkey)
- A18** Antimicrobial Properties of Semiconductor Nanoparticles  
Beril Korkmaz ERDURAL (Turkey)

## **Future Energy Engineering**

- A19** Effects of reaction time, temperature and purification type on biodiesel yield obtained from transesterification of waste frying oils – Murat KILIÇ (Turkey)
- A20** Nanocomposite Membranes based on Nafion and TiO<sub>2</sub> for PEM Fuel Cells  
Nurcan BAÇ (Turkey)
- A21** Carbon supported PtAgFe/C catalysts prepared by low temperature borohydride reduction to be used at the cathode of PEM fuel cells – Silver GÜNEŞ (Turkey)
- A22** HPLC method for elemental sulphur determination in coal  
Lenia GONSALVESH (Bulgaria)
- A23** Biogas desulphurization for fuel cell applications  
Stefano GALLI (Italy)
- A24** High Temperature Proton Exchange Membranes for Fuel Cells by Radiation Grafting  
Lale İŞIKEL ŞANLI (Turkey)
- A25** Hydrogen Production in an Outdoor Panel Photobioreactor on Dark Fermentation Effluent of Molasses – Sevler Gökçe AVCIOĞLU (Turkey)
- A26** Parameters Influencing Long Term Performance and Durability of PEM Fuel Cells  
Elif Seda ŞAYİN (Turkey)
- A27** Acidic Resins and Zeolites for the Etherification of Glycerol: Synthesis of Biocomponents for Fuel – Nalay ÖZBAY (Turkey)
- A28** Optimization of Direct Sodium Borohydride Fuel Cell Anode Catalyst Production Parameters - Osman OKUR (Turkey)
- A29** Mea and Methanol Concentration Optimization of A Passive Direct Methanol Fuel Cell - Levent AKYALÇIN, Süleyman KAYTAKOĞLU (Turkey)
- A30** Electrode Optimization for Direct Methanol Fuel Cells  
Serdar KÖSELER, Levent AKYALÇIN, Süleyman KAYTAKOĞLU (Turkey)

## **Nano and Hybrid Materials**

- A31** Synthesis and Characterization of Acid/Amide Functionalized Copolymer-Organoclay Nanohybrids by Complex-Radical Interlamellar Copolymerization in Aqueous Medium – Burcu ŞENOL (Turkey)
- A32** Interlamellar Complex-Radical Copolymerization of Maleic anhydride (Itaconic Acid) and n-Butyl Methacrylate with Reactive Organoclays  
Ernur SÖYLEMEZ (Turkey)
- A33** Synthetic Partways of Functional Copolymer/Organo-Silicate hybrid Nanosystems Through Interlamellar Controlled/Living Radical Copolymerization  
Zakir M.O. RZAYEV (Turkey)
- A34** Synthesis of TiO<sub>2</sub>/polythiophene nanohybrids using RF plasma method  
Ayşegül UYGUN (Turkey)
- A35** The Particle Size Determination of Candesartan-Cilexetil and Candesartan Loaded Nanoparticles – Aylin GEÇER (Turkey)
- A36** Surface Treatment of Carbon Nanotubes and Their Composites with Poly(ethylene terephthalate) – Sertan YEŞİL (Turkey)
- A37** Electrochemical study of azulene-thiophene copolymer films and thiophene 2-carboxylic acid polymer films – Florina TEODORESCU (Romania)

- A38** Effect of Chemical Additives on Crystal Size Distribution, Size and Morphology of ZnO – Bora AKIN (Turkey)
- A39** Surface Functionalization of Carbonnanotubes by Chemical Vapor Deposition  
Özcan KÖYSÜREN (Turkey)
- A40** The Modification Of Bitumen With Synthetic Reactive Ethylene Terpolymer And SBS – Seyfullah KEYF (Turkey)
- A41** Effect of nano-clay addition on the mechanical properties of hydrogels  
Gülşah YAŞAR (Turkey)
- A42** Effect of Silicon-based Polymers on the Flame Retardant and Mechanical Properties of Polypropylene-based Composites – Sibel DÖNMEZ (Turkey)
- A43** Synthesis and Characterization of Mesoporous Structured MCM-41 with Barium  
Emine KAYA (Turkey)
- A44** Optical Properties and Low Temperature Oxidation Activities Of Metal Doped Titanium Dioxide Semiconductors  
Pelin YETİŞEMEYEN, Bilal BAYRAM, Gürkan KARAKAŞ (Turkey)
- A45** Physical and Antibacterial Properties of Silver Zeolite/Chitosan Composite Films  
Funda TIHMİNDİOĞLU (Turkey)
- A46** A Study on Individual Usage of Zinc Carbonate and Zinc Oxide to Product Zinc Borate - Nurcan TUĞRUL (Turkey)
- A47** Effect of Carbon Nanotube Templates & Doping on The Photocatalytic Activity of Sol-Gel Synthesized Titania - Alp YÜRÜM (Turkey)
- A48** Linear Low Density Polyethylene/Organoclay/Compatibilizer Ternary Nanocomposites - Tijen SEYİDOĞLU (Turkey)
- A49** Development of Nanostructured Aluminum Alloys with High Physical-Mechanical Characteristics - Gabriela POPESCU (Romania)
- A50** Effect of Doping Titania with Praseodymium  
Doruk DOĞU (Turkey)
- A51** Synthesis and Characterization of Mesoporous Pt-Based Silicate Catalysts  
Dilek VARIŞLI (Turkey)
- A52** Effect of Organoclay on Phase Inversion Point of Polystyrene/Organoclay Nanocomposites - Canan YENİOVA (Turkey)
- A53** Preparation and Characterization of Zinc Oxide - Polycaprolactone Biocomposites  
Burcu ALP (Turkey)
- A54** Liquid-Phase Exfoliation of Graphite to Obtain Graphene-like Sheets  
Gülçin UYGUR (Turkey)
- A55** The Investigation of Leaching Kinetics in Preparation of Raney Cobalt Catalyst from the Co-Si Alloy - Mehmet Selçuk MERT (Turkey)
- A56** Preparation and Characterization of Nanocrystalline Titania  
Özlem Çağlar DUVARCI (Turkey)
- A57** Optical and Mechanical Properties of Polyethylene-Zinc Oxide Composites  
Filiz Özmihçi ÖMÜRLÜ (Turkey)
- A58** Single and Multicomponent Ion Exchange of Silver, Zinc and Copper on Zeolite 4A – Hale AY (Turkey)

## **Process Intensification**

- A59** New results on hydrothermal reactions of C1-compounds: 2. Disproportionation reactions of formaldehyde – Gökçen AKGÜL (Germany)
- A60** Effects of Delignification of hazelnut shell to enhance ethanol fermentation by *Pichia stipitis* – Yeşim ARSLAN (Turkey)

- A61** Catalytic Wet Air Oxidation of Maleic Acid  
Meral DÜKKANCI (Turkey)
- A62** Characterization of Bio-Char from Pyrolysis of Safflower (*Charthamus tinctorius* L.)  
Dilek ANGIN (Turkey)
- A63** Catalytic Performance of Aluminum Impregnated SBA-15 In Dimethyl Ether Synthesis – Kenan Cem TOKAY (Turkey)
- A64** Effect of Surfactant Removal Technique on the Properties of STA-Zr-MCM41 Catalysts Designed for Dimethyl Carbonate Synthesis – Sultan ORMAN (Turkey)
- A65** Ni, Rh, Cu And Co Impregnated MCM-41-Like Mesoporous Catalysts For Ethanol Reforming – Seval GÜNDÜZ (Turkey)
- A66** Synthesis of tungstophosphoric acid impregnated SBA-15 catalysts and their performance in pyrolysis of polyethylene – Buğçe AYDEMİR (Turkey)
- A67** An unsteady-state analysis for fluidized-bed cooling  
Yahya SUYADAL (Turkey)
- A68** Performance of Commercial Polymeric and Zeolitic Membranes for Dehydration of the Printing Industry By-product – Emre BÜKÜŞOĞLU (Turkey)
- A69** Dynamic modeling of reactive absorption of carbon dioxide into carbonated ammonia solutions – Ahad GHAEMI (Iran)
- A70** Nonequilibrium dynamic modeling of hydrogen sulfide absorption using diglycolamine solution – Shahrokh SHAHHOSSEINI (Iran)
- A71** Prediction of Vapor-Liquid Equilibrium of H<sub>2</sub>S-DGA-H<sub>2</sub>O System Using Artificial Neural Network - Azadeh KIANI (Iran)
- A72** Pervaporation of Organic/Water Mixtures by Zeolite A Membranes Synthesized in a Flow System – Berna ARICAN (Turkey)
- A73** Effect of Using Polymeric Additive on The Synthesis Of Zinc Borate  
Berk BALTACI (Turkey)
- A74** New poly(imide siloxane)-zeolite mixed matrix membranes: Synthesis, characterization and gas separation properties – Mehtap Şafak BOROĞLU (Turkey)
- A75** Aqueous Two-Phase Extraction of Lactic Acid  
Özlem AYDOĞAN (Turkey)
- A76** The Effect of Carboxymethyl Inulin on Calcium Carbonate Crystallization  
Semra KIRBOĞA (Turkey)
- A77** Adsorption of Basic Blue 41 onto activated carbons prepared from coal by different methods: Studies of adsorption equilibrium and kinetics  
Elvan SULU (Turkey)
- A78** Esterification of Glycerol with Lauric Acid in the Presence of Amberlyst-15 Catalysts  
Halit Levent HOŞGÜN (Turkey)
- A79** Comparison of different processes for used oil recycle  
Enver ERPEK (Turkey)
- A80** Determination of disposal routes for waste crankcase oils  
Volkan PELİTLİ (Turkey)
- A81** Effect of Operating Parameters on Performance of Polymer/ Zeolite Mixed Matrix Membranes – Edibe Eda ORAL (Turkey)
- A82** Na<sub>2</sub>CO<sub>3</sub> Modified Bifunctional CuO-ZnO-Al<sub>2</sub>O<sub>3</sub> Incorporated Mesoporous Silicate Structured Catalysts for Synthesis of Alcohols and Dimethyl Ether from Synthesis Gas - Ayça ARINAN (Turkey)
- A83** Removal of Heavy Metals from Hazardous Waste Leachate by Adsorption onto Kaolinite - Başak MESCİ (Turkey)
- A84** A Study on Zinc Borate Production by Using Borax Decahydrate Mineral  
Emek Moroydor DERUN (Turkey)

- A85** Coke Formation over Mesoporous-supported PdNi catalysts in Dry Reforming of Methane - Katya ARISHTIROVA (Bulgaria)
- A86** Cell interaction properties of monodisperse hydrogel beads carrying anion-exchanger molecular brushes generated by surface initiated ATRP  
Aslıhan BAYRAKTAR (Turkey)
- A87** Effect of Photoinitiator Concentration on Gelation Time in Photopolymerization Process - Gökçen A. Altun ÇİFTÇİOĞLU (Turkey)
- A88** Investigation of Methyl Borate Production from Different Boron Compounds  
Müge Sarı YILMAZ (Turkey)
- A89** Kissinger model application of dehydration reaction of kurnokovite mineral: Non-isothermal differential thermal analysis - Halit Eren FİGEN (Turkey)
- A90** Thermal-Catalytic Pyrolysis of Polystyrene Waste Foams  
Çiğdem ÇELİKGÖĞÜS (Turkey)
- A91** Room Temperature Synthesis of Rutile Titania by Microemulsion Templates  
H. Banu YENER (Turkey)
- A92** Process Optimization for Electrospun Styrene-co-Glycidyl Methacrylate /MWCNTs Using Response Surface Methodology - Elif ÖZDEN (Turkey)
- A93** Evaluation of Oleuropein Extraction from Olive Tree (*Olea europea*) Leaves by means of Water - Selin ŞAHİN (Turkey)
- A94** Kinetics of Reaction between CO<sub>2</sub> and a CO<sub>2</sub>-Binding Organic Liquid DBU  
M. Çağdaş ÖZTÜRK, G. Bengüsu TEZEL, Erdoğan ALPER (Turkey)
- A95** Application of General Rate Model in Continuous Annular Chromatography for Single Component Non-linear Adsorption Isotherms - Tuğrul KOYUNCU (Turkey)
- A96** CO Methanation Over Co<sub>3</sub>O<sub>4</sub>/CeO<sub>2</sub>/ZrO<sub>2</sub>, Ag/CeO<sub>2</sub>/ZrO<sub>2</sub> and MnO<sub>2</sub>/CeO<sub>2</sub>/ZrO<sub>2</sub> Catalysts - Filiz Balıkçı DEREKAYA (Turkey)
- A97** Purification of Biotechnological Carboxylic Acids with Adsorption Method Using Single Walled Carbon Nanotubes - Şahika Sena BAYAZİT (Turkey)
- A98** Water Vapor and Gas Barrier Properties of Silicate Layered Polylactide Nanocomposite Films - Hale OĞUZLU (Turkey)
- A99** Kinetics of Alternative Ionic Liquid Based Solvent Systems for CO<sub>2</sub> Capture  
Emrah KORKMAZ, Süleyman PATİR, Emel KABADAYI, Erdoğan ALPER (Turkey)
- A100** Nano-particles and Steady Counterflow for Intensification of Bio-separations  
Edwin N. LIGHTFOOT, Thatcher W. ROOT, Jane L. O'DELL (USA)
- A101** Processing and Characterization of Natural Zeolite: Microwave Technology  
Yelda AKDENİZ (Turkey)
- A102** Sol-gel Derived Alumina-Silica Membranes  
Berna TOPUZ (Turkey)
- A103** Catalytic CO<sub>2</sub> Reforming of Turkish Lignite  
Arzu KANCA (Turkey)
- A104** Photocatalytic CO<sub>2</sub> Reduction in Liquid Media  
Bahar İPEK (Turkey)
- A105** A Hydride Precursor Deposition Method Application: Cu deposition on Ti  
Hilal Kivrak (Turkey)

## **Challenges In Water Treatment-Chemical Engineers For Water Stress**

- A106** Adsorption of phenol from aqueous solutions onto activated carbon prepared from Tobacco residue – Murat KILIÇ (Turkey)
- A107** Removal of nickel(II) ions from aqueous solutions by biosorption onto hazelnut shell biomass – Murat KILIÇ (Turkey)
- A108** Modeling of Biological Denitrification in Drinking Water Using Monod Kinetics  
Orkun Ovez NALÇACI (Germany)
- A109** Chromium removal from metal industry wastewaters by chemical precipitation and coagulation flocculation methods – Raziye ERTAŞ (Turkey)
- A110** Fluorescence Penetrant Wastewater Treatment  
Elif Nazik Atabay DURUL (Turkey)
- A111** Biological wastewater treatment in a lab-scale sequencing batch reactor, enzymatic activity analysis in activated sludge flocs  
Szabolcs SZILVESZTER (Romania)
- A112** Phenol Removal from Water by Sorption-Membrane Filtration Hybrid Process  
Nalan KABAY (Turkey)
- A113** Use of Agricultural Waste Dry Sugar Beet Pulp for the Removal of Remazol Black B Reactive Dye – S. Pınar KODAL (Turkey)
- A114** Separation of Cu(II) ions from water by micro flow cell electrodeionization (EDI) system – Özgür ARAR (Turkey)
- A115** Boron Removal from Geothermal Water by Using a Small-Scale Reverse Osmosis (Ro) Plant - Effect of pH and Membrane Configuration  
E.YAVUZ, Ö.ARAR (Turkey)
- A116** A Comparative Study for Long-Term Swro Desalination Tests–Effect of Membrane Type on Product Water Quality - E.YAVUZ, S.SOLAK (Turkey)
- A117** Water Treatment: Cu(II) and Cd(II) ions removal with activated carbon  
Ilkün ORBAK, Selahattin GÜLTEKİN, Nilgün GÜLTEKİN (Turkey)
- A118** The Removal of Ammonium Ion with Natural Zeolite  
Beyhan Cansever ERDOĞAN (Turkey)
- A119** Boron Removal by Glucamine Functionalized Microgel Beads in Batch Fashion  
Sıla PINARBAŞI, Hülya Yavuz ERSAN (Turkey)
- A120** Heavy Metal Removal Characteristics of Monodisperse-Macroporous Beads with Anion Exchanger Molecular Brushes  
Hulusi TURGUT, Hülya Yavuz ERSAN (Turkey)
- A121** Isotherm and Thermodynamic Studies of Boron Removal from Aqueous Solutions by Calcined Magnesite Tailing - Mine ÖZDEMİR (Turkey)

## **POSTER SESSION B, (Thursday, March 11, 2010, 20:30 – 21:30)**

### **Biological Process Engineering**

- B1** The separation of bioactive secondary metabolites from *Ligularia sibirica*  
Árpád KAPÁS (Romania)
- B2** The Potential Of The Bacterial Strain *Acidovorax Avenae* Subsp. *Avenae* Lmg 17238  
On The Adsorption Of 2,4-D Using Matlab Modelling –Duygu OVA(Turkey)
- B3** Optimization of alpha-amylase expression in *Pichia pastoris* cells for treating starch-  
based byproducts – Emese-Éva BÁLINT (Romania)
- B4** Catalysis Through Metabolic Engineering for Pathway Flux Amplification  
Tunçer H. ÖZDAMAR (Turkey)
- B5** Studying differently localized enzymes and outer membrane protein profile of  
beneficial soil bacteria – Éva TAMÁS (Romania)
- B6** Preparation and Characterization of Potassium Sorbate Incorporated Cellulose Acetate  
Films for Antimicrobial Food Packaging Applications – Metin UZ (Turkey)
- B7** The Effects of Urease Immobilization on the Transport Characteristics and Protein  
Adsorption Capacity of Cellulose Acetate Based Hemodialysis Membranes  
Filiz Yaşar MAHLIÇLI (Turkey)
- B8** Investigation of hydrocarbon-degrading microbial communities of petroleum  
hydrocarbon contaminated soils in Harghita county, Romania  
Tibor BENEDEK (Romania)
- B9** Heterologous expression of GITRL in *Escherichia coli*  
Erika KOVÁCS (Romania)
- B10** Protein adsorption properties of reactive hydrogel beads synthesized by a new  
suspension polymerization technique  
Aslıhan BAYRAKTAR, Ali TUNCEL (Turkey)
- B11** Large-size, polydisperse magnetic hydrogel particles for DNA isolation  
Aslıhan BAYRAKTAR (Turkey)
- B12** Thermal power plants ash for lightweight ceramic composites  
Georgeta PREDEANU (Romania)
- B13** A Comparative Study of Substrate Concentration Control of *S.cerevisiae* in Fed-batch  
Cultivation – Zeynep YILMAZER (Turkey)
- B14** Attachment of Human Cartilage Cells on Biodegradable Dextran Based Cryogels: A  
comparative Study for Tissue Engineering Applications – Nevsal USTA (Turkey)
- B15** The Effect of Solution pH on the Separation of Similar-Sized Proteins Through  
Polyacrylonitrile (PAN) and Polyelectrolyte Deposited PAN Membranes  
Yılmaz YÜREKLİ (Turkey)
- B16** Bistability of an Apoptosis Model in the Presence of Nitric Oxide  
Sercan Murat ŞEN (Turkey)
- B17** Delivery Vehicles from (Sub)micron Hyaluronic Acid Hydrogels Particles with  
Tunable Properties for Biomedical Application - Nurettin ŞAHİNER (Turkey)
- B18** Optimization of Growth Rate of *Kluyveromyces Lactis* in The Culture Medium Using  
Response Surface Methodology - Vahap YÖNTEN (Turkey)
- B19** Effects of Organo Clay to Chemical Resistance of Alkyd-Amino Resins  
Ayça Bal (Turkey)
- B20** Biocatalytic Racemization Of Racemic Benzoin Using *Rhizopus Oryzae*  
Rahime SONGÜR (Turkey)
- B21** Optimization of Biogas Production by co-digestion  
Gülsün AKTAŞ (Turkey)

- B22** Recovery of Lactic Acid from Fermentation Broth by Reactive Distillation-  
Didem Nur SAĞLAM (Turkey)

## **Future Energy Engineering**

- B23** Co-Liquefaction of Elbistan Lignite and Wastes  
Hüseyin KARACA (Turkey)
- B24** Synthesis of Organic-Inorganic Composite Membrane for PEM Fuel Cell  
Alpay ŞAHİN (Turkey)
- B25** Synthesis and Characterization of Polypyrrole-modified Composite Membranes for Fuel Cells – Didem ÇİLİNGİR DOĞAN (Turkey)
- B26** Development of Different Carbon Supports for Proton Exchange Membrane (PEM) Fuel Cell Electrocatalysts – Burcu GÜVENATAM (Turkey)
- B27** Preparation of direct methanol fuel cells based on Poly(vinyl alcohol) (PVA)/4,4-diaminodiphenyl ether-2,2-disulfonic acid (ODADS) hybrid membranes  
Selva ÇAVUŞ (Turkey)
- B28** Pyrolysis of Some Biomass and The Investigation of Pyrolysis Products  
Emir H. ŞİMŞEK (Turkey)
- B29** Pyrolysis kinetics and product analysis of waste HDPE, PP, PS and their mixture  
İlknur KAYACAN (Turkey)
- B30** Development of Poly(Vinyl Alcohol) Based Membrane for PEM Fuel Cell  
Alpay ŞAHİN (Turkey)
- B31** Use of Granular Activated Carbon as Anode and Cathode Materials in Microbial Fuel Cells - Pelin ÇAVDAR (Turkey)
- B32** Multi-Objective Optimization of A Fuel Cell System for Transportation Application  
S.O. MERT (Turkey)
- B33** Producing Hydrogen for Solid Oxide Fuel Cells by Steam Reforming of JP-8 Fuel  
Arife Derya DENİZ (Turkey)

## **Nano and Hybrid Materials**

- B34** A new reactive hydrogel in the form of monodisperse-macroporous particles  
Bilginur MARAŞ (Turkey)
- B35** New generation small monodisperse-macroporous hydrogel beads for chromatographic applications in micro-liquid chromatography  
Çiğdem GÖLGELİOĞLU (Turkey)
- B36** Hyperthermia with magnetic monodisperse-macroporous polymer particles  
Selin SAĞLAM (Turkey)
- B37** Synthesis and characterization of monodisperse magnetic hydrogel particles via in-situ magnetization during multistage-microsuspension polymerization  
Selin SAĞLAM (Turkey)
- B38** Sorption Behavior of Crosslinked and Zeolite-Filled Poly(vinylalcohol) Membranes Prepared for Dehydration of Organic Solvents  
Ersel ARÇEVİK (Turkey)
- B39** Determination of Interatomic Forces between a Silicon Nitride Tip and 0001 Quartz Surface in Solution using AFM and comparison with Theory  
Gülnehal Ozek YELKEN (Turkey)
- B40** The Effects of Halogen Free Boron Based Flame Retardants on Mechanical Properties of Polyurethane Sponge - Ali KARADUMAN (Turkey)



- B41** Preparation of Activated Carbon from Pretreated Mixed Southern Hardwoods  
Emine YAĞMUR (Turkey)
- B42** Examination of Adsorptive Behaviour of Activated Carbon from Waste Tea by  
Chemical Activation with Microwave Energy  
I. Isil Gurten İNAL (Turkey)
- B43** Physical Activation of Soma Lignite and Characterisations  
Zeki AKTAŞ (Turkey)
- B44** Carbon Nanotube Production over MCM-41 Type Catalytic Materials via CVD  
Method-Aslı NALBANT (Turkey)
- B45** Novel graphene-based electrodes for energy storage devices  
Burcu SANER (Turkey)
- B46** Copper supported FSM-16 Molecular Sieves for Carbon Nanotube Production  
Sinem TAŞ, Firuze OKYAY (Turkey)
- B47** Morphology of Extended-Surface ZnO Nanoparticles  
Berrin İKİZLER (Turkey)
- B48** Synthesize and Characterization of Gold Nanoparticles and Nanorods  
Nihan GÜVENER (Turkey)
- B49** Dispersion Characteristics of CNT-Inorganic Hybrids in Epoxy Matrix  
Seda AKSEL (Turkey)
- B50** Removal of Cationic Dyes from Aqueous Solutions with Poly (N-  
isopropylacrylamide-co-itaconic acid) Hydrogel - Işıl ACAR (Turkey)
- B51** ZrO<sub>2</sub> Nanomaterials – Synthesis, Morphology and Thermal Characterization  
Alina PETCU (Romania)
- B52** High temperature thermochemical behavior and heat capacity of TiO<sub>2</sub> nanopowders -  
Cornelia MARÎNESCU (Romania)

## **Process Intensification**

- B53** A comparative study on lignocellulose pretreatments for bioethanol production from  
cotton stalk – Işık HAYKIR (Turkey)
- B54** Production of butyl acetate from dilute acetic acid by esterification  
Emine SERT (Turkey)
- B55** Chemical Demineralization and Isothermal Pyrolysis of Şırnak Asphaltite  
Murat SERT (Turkey)
- B56** Urea Decomposition Products over 2% Cu/Al<sub>2</sub>O<sub>3</sub> and 2 % Ag/Al<sub>2</sub>O<sub>3</sub> Catalysts  
H.Mehmet TAŞDEMİR (Turkey)
- B57** Preparation and Characterization of Cr-MCM-41 Catalysts  
Saliha KILIÇARSLAN (Turkey)
- B58** Biopolymerization of Carvacrol and Optimization of Reaction Conditions through  
Surface Response Methodology (RSM) – Özlem ÖZMEN (Turkey)
- B59** Ethyl tert-Butyl Ether (ETBE) Synthesis in the Presence of Solid Acid Catalysts  
Levent DEĞİRMENCİ (Turkey)
- B60** Investigation Of Hydrogen and/or Methane Production From Glycerol by Catalytic  
Gasification in Supercritical Water – Dilek GÖKKAYA (Turkey)
- B61** Hydrogen and/or Methane Production From Acorn by Gasification in Supercritical  
Water – Dilek GÖKKAYA (Turkey)
- B62** Ozone Production Optimization in Atmospheric Ac Dbd Plasma Generators  
Özge YÜKSEL (Turkey)

- B63** Synthesis of Zinc Borate in Inverse Microemulsion  
Sevdiye Atakul SAVRIK (Turkey)
- B64** Propane Oxidative and Non-Oxidative Dehydrogenation to Propylene over Cr Incorporated SBA-15 Catalysts Prepared by Impregnation and One-Pot Synthesis Methods - Özge AKTAŞ (Turkey)
- B65** MCM-41 Supported Cobalt Catalysts For Dry Reforming of Methane  
Selen FİLİZGOK (Turkey)
- B66** The Effects of Ozone on Power and Emission Values of Two Stroke Engines  
Samet ŞAHİN (Turkey)
- B67** Drying Kinetics of Celery Leaves Undergoing Microwave Heat Treatment  
Elçin DEMİRHAN (Turkey)
- B68** Colour change kinetics of celery leaves during microwave drying  
Elçin DEMİRHAN (Turkey)
- B69** Removal of Fe<sup>3+</sup> Ions in the Presence of Poly(vinyl pyrrolidone) and Dextran by using Poly(methyl methacrylate-co-methacrylic acid) Membrane  
Gülşen ASMAN (Turkey)
- B70** Application of Semiconductor Films Over Glass Surfaces and Their Photocatalytic Activity – Tuğçe İrfan ERSÖZ (Turkey)
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