

The 4th CLEAN ENERGY PRIORITY RESEARCH CENTER WORKSHOP

Date : May 29(Tue), 2018

Venue : ChE Rm 214, Yeungnam University

13:45 - 14:10 Registration

Opening Ceremony (Moderator: Prof. Woo Kyoung Kim)

14:10 Commemorative Photographing

Introduction

14:15 Overview of Clean Energy Priority Research Center Project
Prof. Jae-Jin Shim (Director, Clean Energy Priority Research Center)

Research Presentations

Session 1: Team 1 (70min) Chair: Prof. Jintae Lee

14:30 10min "Development of NT-based Energy Storage Materials"
Prof. Jae-Jin Shim (Team 1 Leader)

14:40 10min "Efficient Synthesis of Organic and Nanomaterials"
Prof. Yong Rok Lee

14:50 15min "Synthesis of CuO coated CoO@rGO Composite as a Green Catalyst for Dual Environmental Applications: Reduction of p-nitrophenol and Heterogeneous Catalyst for Dyes Removal"
Dr. Amr Hussein Mady

15:05 15min "Efficient Synthesis of Diverse Heterocycles via Carbon-Heteroatom Bond Formation"
Dr. Khanal Hari Datta

15:20 5min "Nanostructured Cobalt Manganese Mixed Sulfides as Positive Electrode for High Performance Aqueous Hybrid Supercapacitor"
Tensangmu Lama Tamang(Advisor Prof. Jae-Jin Shim)

15:25 5min "Effect of Synthesis Conditions on the Morphology of ZnO/RGO Nanocomposite: A Comparative Study on the Morphological Impact on the Photocatalytic Property"
Nguyen Van Quang(Advisor Prof. Jae-Jin Shim)

15:30 5min "Facile Green Synthesis of Carbon Nanostructures for Energy and Environmental Applications"
Dr. Raji Atchudan(Advisor Prof. Yong Rok Lee)

15:35 5min "Green Synthesis of Metal and Metal Oxide Nanoparticles for the Organic Transformations"
Dr. Kanchan Mishra(Advisor Prof. Yong Rok Lee)

15:40 20min COFFEE BREAK

Session 2: Team 2 (65min) Chair: Prof. Jong Su Kim

16:00 10min "Super-capacitive Microbial Fuel Cells for Simultaneous Production and Storage of Electricity"
Prof. Moo Hwan Cho (Team 2 Leader)

16:10 10min "Gold Nanoparticle Composites for Controlling Superbacteria"
Prof. Jintae Lee

16:20 15min "Inhibitory Activities of Plants, Fish and Insect-derived Compounds Against Pathogenic Bacteria"
Research Prof. Jin-Hyung Lee

16:35 15min "Biogenic Fabrication of Graphitic Carbon Nitride (g-C₃N₄)-Metal Nanostructures and their Multifunctional Efficacy as Antibacterial Agents, Photoelectrochemical and Photocatalyst"
Dr. Mohammad Ehtisham Khan

16:50 5min "Biogenic Synthesis of Gold Nanoparticles in Microbial Fuel Cell and its Application for Hydrogen Peroxide Detection"
Md Rezaul Karim(Advisor Prof. Moo Hwan Cho)

16:55 5min "Antibiofilm efficacy of curcumin against multidrug-resistant Acinetobacter baumannii"
Chaitanya Jayprakash Raorane(Advisor Prof. Jintae Lee)

17:00 5min "Development of environment-friendly nematicides using halogenated indoles"
Dr. Satish kumar Rajasekharan(Advisor Prof. Jintae Lee)

17:05 20min COFFEE BREAK

Session 3: Team 3 (105min) Chair: Woo Kyoung Kim

17:25 10min "Formation mechanism of InAs nanostructures on GaSb (100) surface"
Prof. Jong Su Kim (Team 3 Leader)

17:35 10min "Process Developement on Hybrid Extraction-distillation for the Purification 2,3-butandiol from Fermentation Broth"
Prof. Moonyong Lee

17:45 10min "Phase Evolution during Rapid Formation of Cu(InGa)Se₂ Photovoltaic Absorber from Mo/CuGa/In/Se Precursors"
Prof. Woo Kyoung Kim

17:55 15min "Energy Transfer based Photoluminescence Properties of Phosphors for Photonic Applications"
Dr. Koramala Naveen Kumar

18:10 15min "Advanced Designs for Biorefinery Processes from Lignocellulosic Biomass"
Dr. Le Cao Nhien

18:25 15min "Studies on Tin Sulfide Thin Films for Solar Cells"
Dr. Gedi Sreedevi

18:40 5min "Temperature Dependent-photoluminescence of InSb/GaSb Quantum Dot Grown by Droplet Epitaxy"
Mo Geun So(Advisor Prof. Jong Su Kim)

18:45 5min "Optical Properties of InAs/GaAs_{1-x}Sb_x Submonolayer Quantum Dots"
Min Seak Kim(Advisor Prof. Jong Su Kim)

18:50 5min "Operational Optimization of SMR Natural Gas Liquefaction(LNG) Process"
Kinza Qadeer(Advisor Prof. Moonyong Lee)

18:55 5min "Salting Out Extraction"
Junaid Haider(Advisor Prof. Moonyong Lee)

19:00 5min "Characterization of Al:ZTO Transparent Conductive Oxide Film"
Hyunmin Jung(Advisor Prof. Woo Kyoung Kim)

19:05 5min "Fabrication of In₂S₃ via Chemical bath Deposition Technique by Using Green Complexing Agent"
Doohyung Moon(Advisor Prof. Woo Kyoung Kim)

Closing Ceremony

19:10 Closing Remarks and Lucky Draw
19:30 Workshop Banquet (Room 312 & 322)