Session Program

27-29 Nov 2016



NanoThailand 2016

Heron 1

THE GREENERY RESORT KHAO YAI www.greeneryresort.com Nakhon Ratchasima, Thailand

Sunday 27 November

d Application in Catalytic Co2 Conver Combination of First-principles laterials Using Optical Coherence
laterials Using Optical Coherence
reduction of CO_{2} to Methanol on
elatonin in the Bulk Water and at the

Monday 28 November

10:15 Heron 1: Session 2: Nano-characterization & instruments & Nanomaterials & nanostructures Session | Location: Greenery, Room2, --10:15-10:35 The mystery of high temperature superconductivity at the FeSe/STO interface Speaker Prof. Donglai Feng 10:35-10:55 Possible electric field induced indirect to direct band gap transition in MoSe\$ 2\$ Speaker Prof. Kim Changyoung 10:55-11:15 First-principles study on two dimensional dichalcogenides for hydrogen production Speaker Prof. Seungwu Han 11:15-11:30 The observation of strain-induced valence band splitting on HfSe\$_2\$ by Alkali metal intercalation Speaker Dr Tanachat Eknapakul 11:30-11:45 Analysis of electronic spectral weight of two-dimensional electron gases at the surfaces of ferroelectric KNb\$_x\$Ta\$_(\$\$_1\$\$_-\$\$_x\$\$_)\$O\$_3\$ across T\$_c\$ Speaker Sujinda Chaiyachad 12:05 13:00 Heron 1: Session 3: Nano-electronics/systems Session | Location: Greenery, Room2, --13:00-13:20 Polymer/Metal Nanoparticle/Nanocarbon Hybrid Materials for Highly Sensitive and **Selective Volatile Organic compound Detection** Speaker Winadda Wongwiriyapan

13:20-13:40

DESIGNING MOLECULAR STRUCTURES OF D- π -A TYPE ORGANIC DYES FOR HIGH EFFICIENCY DYE-SENSITIZED SOLAR CELLS

Speaker

Prof. Vinich Promarak

13:40-14:00

X-ray Absorption Investigation on Cation Distribution and Magnetic Behavior of Zinc Ferrite Nanoparticles

Speaker

Wisanu Pecharapa

14:00-14:20 Fabrication of Highly Aligned CNT and P(VDF/TrFE) Nanofiber Sheets

Speaker

Hidenori Mimura

14:20-14:35 Simulation of single quantum well solar cells

Speaker

Dr Maetee Kunrugsa

14:55

15:00

Heron 1: Session 4: Nano-energy & storage

Session | Location: Greenery, Room2, --

15:00-15:20

Natural Materials for Dye Sensitized Solar Cells: Experimental and Theoretical Study

Speaker

Vittaya Amornkitbamrung

15:20-15:40

A recent development of mixed metal oxides/polymer nanocomposites as energy storage catalysts

Speaker Dr Pailin NGAOTRAKANWIWAT

15:40-15:55

Electrical Properties of Co-Doped LiFePO4 Nanomaterial by Impedance Spectroscopy Technique

Speaker

Mr Phongsit Krabao

15:55-16:10

The porous carbon derived from the KOH activation of agro-waste char for supercapacitor electrode

Speaker Dr Jedsada Sodtipinta

16:10-16:25

Synthesis and identification of silica and activated carbon nanocomposite from rice husks for energy storage

Speaker Mr Yutthanakon Kanaphan

16:25-16:40

nvestigation the role of Co2+ in LiFePO4 cathode material during batteries operation by In-situ XANES technique

Speaker Ms Patcharapohn Chantrasuwan

16:40-16:55

Fabrication of Perovskite Solar Cell via Rapid Convective Deposition Technique

Speaker

Mr Natpapon Saranrom

16:55

Tuesday 29 November

10:15 Heron 1: Session 5: Nano-energy & storage Session | Location: Greenery, Room2, --10:15-10:35 Chitosan-metal nanohybrids for microbial detection and extraction Speaker Prof. Suwabun Chirachanchai 10:35-10:55 Charge storage mechanisms of manganese oxide nanosheets and N-doped reduced graphene oxide aerogel for high-performance asymmetric supercapacitors Speaker Dr Montree Sawangphruk 10:55-11:15 Molecular Dynamics Simulations and Gaussian Network Model in Improving Protein-Protein Binding Affinity: HIV and Dengue Cases Speaker Vannajan Sanghiran Lee 11:15-11:30 Fabrication, Characterization, and Electrochemical Properties of Electrospun **MnCo2O4** Nanofibers Speaker Ms Ornuma Kalawa 11:30-11:45 Synthesis, characterization and electrochemical properties of KFeO2 nanoparticles prepared by sol-gel method Speaker Ms Thongsuk Sichumsaeng 11:45-12:00 Improved Electrochemical Properties of Activated Biomass/FeOx/MnOx Composite Prepared by Hydrothermal method for Supercapacitor Electrode Materials Speaker Ms Unchista Wongpratat 12:00-12:15 DIAMONDOID COUNTER ELECTRODES FOR DYE-SENSITIZED SOLAR CELLS Speaker Sumeth Siriroj 12:15 13:30 Heron 1: Session 6: Other related topics Session | Location: Greenery, Room2, --

13:30-13:45

Gas Response of Tin Oxide Film Sensor to Varying Methane Gas Concentration

Speaker

Prof. Emmanuel Florido

13:45-14:00

ELECTROWETTING ON DIELECTRIC (EWOD) OF SESSILE MICRODROPLETS CONTAINING POLYDISPERSE GOLD NANOPARTICLES

Speaker

Prof. Crismar Patacsil

14:00-14:15

Salicylideneaniline-Functionalized Poly(m-phenyleneethynylene)s as Fluorescent Turn-On Chemosensors for Cations

Speaker

Ms Nopparat Thavornsin

14:15-14:30

Observing Chitooligosaccharide Traveling through a Biological Nanopore of Escheriachia coli

Speaker

H. Sasimali M. Soysa

14:30