

## **Session Program**

**21-23 May 2018**

# **Siam Physics Congress 2018**

## ***A13: Material Physics***

Topland | Hotel & Convention Center Phitsanulok  
<http://www.toplandhotel.com/index.php> Phitsanulok, Thailand

## Tuesday 22 May

09:00

### A13: Material Physics

**Session** | **Location:** Phichit Room | **Convener:** Dr Sasiporn Prasertpalichat

09:00-09:15

#### Optical properties of Mn-doped CdS Thin films Grown by the SILAR Method

##### Speaker

Mr Nattawee Phasook

09:15-09:30

#### Microstructural, Dielectric and Optical Properties of [KNbO<sub>3</sub>]<sub>0.9</sub> - [BaNi<sub>0.5</sub>Nb<sub>0.5</sub>O<sub>3</sub>]<sub>0.1</sub> Perovskite Ceramics

##### Speaker

Dr Saichon Sriphan

09:30-09:45

#### HSE hybrid functional calculation of absolute deformation potential in MgGeN<sub>2</sub>

##### Speaker

Chaiyawat kaewmeechai

09:45-10:00

#### Optimization of multi-layer graphene/PMMA synthesized by low pressure chemical vapor deposition from acetylene precursor

##### Speakers

Dr Tula Jutarosaga, Mr Nutdanai Bodinthisitkul

10:00-10:15

#### Effect of Destabilisation and Tempering on Microstructure and Hardness of 28 wt.%Cr-(1-4) wt.%W Cast Irons

##### Speaker

Ms Sasitorn Yeekew

10:15-10:30

#### Sintered Fe-Mo-Si-C alloys with ductile cast iron microstructure

##### Speaker

Kittikhun Ruangchai

10:30

10:45

### A13: Material Physics

**Session** | **Location:** Phichit Room | **Convener:** Dr Theerachai Bongkarn

10:45-11:00

#### Preparation and Electrical Properties of Calcium Carbonate Nano-particle

##### Speaker

Rachaya Sittipeng

11:00-11:15

#### Effect of calcination temperature on the conductivity of Sm and Cu co-doped ceria

##### Speaker

Mr Anuchit Sawangprom

11:15-11:30

**Structural and electronic properties of MXene phase of Mo<sub>2</sub>C under external stresses****Speaker**

Baramett Somtha

11:30-11:45

**Synthesis of titanium and diamond-like carbon thin films bi-layers used as an electrode for electrochemical advanced oxidation in diuron degradation by dc magnetron sputtering****Speaker**

Mr Nimit Kantiyawong

11:45-12:00

**Influence of Ag Doping on Some Physical Properties of Y156 Superconductors Prepared by Solid State Reaction****Speaker**

Kanchaporn Tantivichitvech

12:15