

Session Program

22-24 Jun 2022



Siam Physics Congress 2022 (SPC2022)

S2 Condensed Matter Physics

Thursday 23 June

10:45

S2 Condensed Matter Physics: Oral presentation 3

Session | Location: TURQUOISE

10:45–11:15

Alkali titanates as a bride for solid state chemistry and soft matter

Speaker

Tosapol Maluangnont

11:15–11:30

External pressure effects on superfluid density of isotropic s-wave superconductors

Speaker

Grittichon Chanilkul

11:30–11:45

The temperature dependent surface critical magnetic field (H_{c3}) of $K_{0.73}Fe_{1.68}Se_2$ superconductor by semi-anisotropic two band Ginzburg-Landau approach

Speaker

Ms Suppanyou Meakniti

11:45–12:00

Effect of annealing temperature on the structure and hardness of DC reactive magnetron sputtered CrAlN thin films

Speakers

Dr Nirun Witit-anun, Dr Adisorn Buranawong

12:00

Friday 24 June

09:00

S2 Condensed Matter Physics: Oral presentation 3

Session | Location: TURQUOISE

09:00–09:30

Magnetic Bacterial Cellulose and Carbon Fiber Nanocomposites

Speaker

Supree Pinitsoontorn

09:30–09:45

Characterization of TiN thin film deposited by reactive DC unbalanced magnetron sputtering at different N₂ flow rates

Speaker

Dr Siriwat Alaksanasuwan

09:45–10:00

Improvement in Reproducibility of Large-scale Perovskite Solar Cells Using Automatic Liquid Injection in Antisolvent Method

Speaker

Watcharakart Insri

10:00–10:15

Synthesis of (Zn + Nb) co-doped TiO₂ rutile nanoparticles and dielectric properties

Speaker

Theeranuch Nachaithong

10:15

11:30

S2 Condensed Matter Physics: Oral presentation 3

Session | Location: TURQUOISE

11:30–11:45

Giant Dielectric Response and Maxwell-Wagner Relaxation in Isovalent and Pentavalent Co-doped Rutile-TiO₂

Speaker

Ms Yasumin Mingmuang

11:45–12:00

Versatile, Low-Cost, and Portable 2D Material Transfer Setup with a Facile and Highly Efficient DIY Inert-Atmosphere Glove Compartment Option

Speaker

Harihara Ramamoorthy

12:00

13:00

S2 Condensed Matter Physics: Oral presentation 10

Session | Location: TURQUOISE

13:00–13:30

Electron-pinned defect-dipole and internal/surface barrier layer capacitor effects for high-performance giant dielectric oxides

Speaker

Prasit Thongbai

13:30-13:45

Improving Heterointerface Abruptness of InGaAs/InP Superlattice by Optimizing a Purging Period of Group-V Gas**Speaker**

Dr Warakorn Yanwachirakul

13:45-14:00

EFFECT OF ANNEALING CONDITIONS ON VO₂ THIN FILMS PREPARED BY SOL-GEL METHOD**Speaker**

Mr Pongsatorn Panburana

14:00-14:15

PREPARATION OF UiO-66-MOFs FROM PLASTIC BOTTLE WASTE FOR GAS ADSORPTION MATERIAL APPLICATION**Speaker**

Chawisa Visanupornprasit

14:15-14:30

Ab-initio study and Atomistic spin model simulations of α -Cr₂O₃ thin films**Speaker**

Mr Boonthum Kunyanguyen

14:30-14:45

Classification of metal polyhydride critical temperature using support vector machine**Speaker**

Vichayuth Imchitr

14:45-15:00

On the origin of high performance V₂O₅ cathodes of aqueous Mg-ion batteries: A computational study**Speaker**

Panupol Untarabut

15:00-15:15

First principles study on thermal conductivity of nitrogen substituted diamane**Speaker**

Mr Sakarn Khamkaeo

15:15-15:30

First-principles prediction of configurational order-disorder phase transition in ((Ti_{1-x}V_x)_{1/3}Mo_{2/3})₃C₂ MXene alloys**Speaker**

Chayanon Atthapak

15:30-15:45

Fabrication and characterization of the Si p-n junction prepared by thermal diffusion

Speaker

Mr Nanthawat Toarun

15:45–16:00

Synthesis of antibacterial nanofibers composite from poly butylene succinate and copper nanoparticle as a filter layer in a surgical mask**Speaker**

Jaggawut Suwannachot

16:00–16:15

High–Performance Giant Dielectric Properties of (Tb+Nb) Co–Doped TiO₂ Ceramics**Speaker**

Mr Noppakorn Thanamoon

16:30