

Oral Session Awards

1. **S1_O3**, Mr. Wasan Pantasri, (Mahasarakam University), Topic: **Parametric optimization for high performance HAMR**
2. **S1_O7**, Dr. Prapaiwan Sunwong, (SLRI), Topic: **Design of dipole magnet for SIAM photon source 2**
3. **S1_O6**, Dr. Poramed Wongjom, (Thammasat University), Topic: **The observation of spin Seedbeck effect in opposite spin Hall angle materials of polycrystalline bulk-Fe₃O₄/(Co/Fe) systems**
4. **S2_O17**, Satana Pongampai (KMITL), Topic: **Tailoring Temperature Stability in Ultralow Loss (Ba/Sr) Zirconate Microwave Dielectric**
5. **S3_O8**, Pornnipa Nunocha, (Naresuan University), Topic: **Effect of Ag doping on structural, optical, and electrical properties of Ca₃Co₄O₉ prepared by sol-gel auto combustion method**
6. **S3_O14**, Thanaphon Kansaard, (KMITL), Topic: **Structural, optical and photo-induced catalytic properties of derived-Leucoxene /BiVO₄ composite prepared by sonochemical process**
7. **S3_O6**, Krit Yantabutr, (KMUTNB), Topic: **Phase Characteristics, Microstructure, and Electrical Properties of BCT-BT Ceramics**
8. **S4_O24**, Pasawat Jongpanya-Ngam, (Silpakorn University), Topic: **Effect of Sulfonate Derivative as Nucleating Agents on Crystallization Behavior of Poly (lactic acid)**
9. **S4_O28**, Pornsit Chaiya, (Walailak University) Topic: **In Vitro Anti-Inflammatory Activity Using Thermally Inhibiting Protein Denaturation of Egg Albumin and Antimicrobial Activities of Some Organic Solvents**
10. **S5_O7**, Worasak Sukkabot, (Ubon Ratchathani University), Topic: **Shape-dependent nanocrystals with interesting electronic structures and optical properties: Atomistic tight-binding theory**
11. **S6_O7**, Thitipong Kruaehong, (Suratthani Rajabhat University), Topic: **Comparison of Some Properties of Y₁₂₃ and Gd₁₂₃ Superconducting Material**
12. **S6_O6**, Jitlada Kumpa, (Thammasat University), Topic: **Recycling of Exhausted Dust from Regenerator of Glass Furnace in Glass Batch Melting**
13. **S7_O10**, Picha Panmongkol (KMUTT), Topic: **Study of Imitative Micro pit volume evaluation**
14. **S8_O4**, Krittiya Sreebunpeng, (Chandrakasem Rajabhat University), Topic: **Fast response (Lu,Y)₃Al₂Ga₃O₁₂:Pr,Mg multicomponent garnet crystal scintillators**
15. **S8_O14**, Manlika Sriiondee, (KMUTT), Topic: **Dynamic changes of electrical resistance in bi-crystal SrTiO₃ induced by UV irradiation**
16. **S9_O2**, Gregory Soon How Thien, (University of Malaya), Topic: **Novel TiO₂ Blend MAPbI₃ Perovskite in Memory ReRAM Devices**
17. **S9_O9**, Pacharamon Somboonsaksri, (NECTEC), Topic: **The controlling power of oxygen plasma treated-ZnO nanostructure template for 3Dhybrid structured reusable surface-enhanced Raman scattering substrates**

18. **S10_O8**, Chutimon Makee (SUT), Topic: **Wear of multinite coated high speed steel drills compared with uncoated high speed steel drills**
19. **S11_O6**, Narawadee Sawamool, (CMU), Topic: **Optimal Pressure in Bypass Graft Prevent Failure Bypass Graft in Carotid Artery to Middle Cerebral Artery Bypass Using Computational Fluid Dynamic Method**
20. **S12_O13**, Ms. Nu Myat Thazin, (Kasetsart University), Topic: **Influence of Pretreatment and Pre-Carbonization Conditions on the Porosity Development of Activated Carbon Fibers from Kapok for Supercapacitor Electrode Applications**
21. **S12_O10**, Ms. Pudjira Manoonwong, (Kasetsart University), Topic: **ENHANCED ANTIMICROBIAL AND MECHANICAL PERFORMANCES OF ENGINEERED CEMENTITIOUS COMPOSITE BY INCORPORATING Al-Zn NANOPARTICLES**
22. **S14_O31**, Tidarut Vichaidid, (Prince of Songkla University), Topic: **Thermoluminescence dating of freshwater fossil shell in the archaeological sites at Cliff Dewa Thoud Ta-Thoud Yai, Songkhla Province of Thailand**
23. **S14_O10**, Chayani Sarumaha, (Nakhon Pathom Rajabhat University), Topic: **Effect of Gd₂O₃ in La₂O-AlF₃-CaF₂-P₂O₅-Eu₂O₃ glasses for laser medium and X-ray detection material applications**
24. **S14_O7**, นวรัตน์ จารุชา, (Nakhon Pathom Rajabhat University), Topic: **Radioluminescence and photoluminescence properties of Sm³⁺ doped gadolinium aluminium sodium phosphate oxyfluoride scintillating glass**
25. **S14_O26**, เขียวลักษณะณ์ ทาริวงค์, (Nakhon Pathom Rajabhat University), Topic: **Crystal growth and luminescence characteristic LaCl₃:Dy³⁺ single crystal for the laser application**

Poster Session Awards

1. **S1_P6**, Aek Jantayod, (Naresuan University), Topic: **Unconventional Rashba spin-orbit on a charge and spin of ferromagnetic/ferromagnetic insulator/ferromagnetic Rashba metal junction**
2. **S2_P3**, Siwat Penrasamee, (Chulalongkorn University), Topic: **Origin of piezoelectricity in bacterial cellulose for the development of ecofriendly responsive film**
3. **S10_P5**, Phatthrawet Buarabadthong, (Synchrotron Light Research Institute), Topic: **Development of an X-ray Mirror Based on Ultrathin B4C/W Multilayers Prepared by Magnetron Sputtering**
4. **S3_P3**, S. Nathabumroong, (Suranaree University), Topic: **Enhancement of electrochemical performance of asymmetric supercapacitors using violet laser treatment on N-doped reduce graphene oxide as cathode active material**
5. **S3_P4**, Siriwimol Noymak, (Kasetsart University), Topic: **Metal sulfide of Cu-Mn-S loaded-gel like carbon matrix as an electrode material for coin cell supercapacitors**
6. **S4_P9**, Mr. Phranot Ajkidkarn, (Chulalongkorn University), Topic: **Dimensional stability and ionic conductivity of electro spun PEBAX/BCNCs nanofibrous membranes as high-performance separators for lithium-ion batteries**
7. **S4_P3**, Mr. Phummiphat Buaphuen, (KMITL), Topic: **The Enhancement of Polymer Composite Coating by using a Waste Glass Powder as Alternative Reinforcement**
8. **S4_P35**, Mr. Sitthi Duangphet, (Mae Fah Luang University), Topic: **Effect of Crosslinking Agent on Mechanical Properties and Water Solubility of Water Soluble Film from Blown Film Extrusion**
9. **S4_P36**, Ms. Ploysai Ohama, (SuanSunandha Rajabhat University), Topic: **Colorimetric biofilm sensor with anthocyanin for monitoring fresh pork spoilage**
10. **S5_P1**, Surawut Wicharn, (Srinakharinwirot University), Topic: **Recursive-formula for second-harmonic generation problem in photonic hypercrystal**
11. **S5_P3**, Phachara Phongwisit, (King Mongkut's Institute of Technology Ladkrabang), Topic: **A design of beam splitter based on asymmetric Y-junction waveguide with adjustable splitting ratio using air hole defect**
12. **S6_P7**, Vorrada Loryuenyong, (Silpakorn University), Topic: **The Preparation of Reversible Thermochromic Mn-Doped Ca-Zn-Al-O Inorganic Materials**
13. **S6_P12**, Niti Yongvanich, (Silpakorn University), Topic: **Chemical stability of Y2Ti2O7 yellow pigments in ceramic glazes and development of an appropriate glaze recipe**
14. **S7_P1**, Purim Jarujamrus, (Ubon Ratchathani University), Topic: **Nitrogen-Doped Carbon Dots (N-CDs) As Peroxidase Mimic Coupled with A Laminated Three-Dimensional Microfluidic Paper-Based Analytical Device (Laminated 3D- μ PAD) For Smart Sensing of Total Cholesterol from Whole Blood**
15. **S8_P5**, P. Kamonpha, (Suranaree University), Topic: **Influence of Eu³⁺ doped lithium barium gadolinium phosphate glass for orange-reddish photonic devices**

16. **S8_P10**, Piyaporn Thangdee, (Suranaree University), Topic: **Effect of Various Oxygen Flow Rate Local Structure and Structural Properties of Vanadium Oxide Thin Films Prepared by Radio-Frequency Reactive Magnetron Sputtering**
17. **S9_P14**, Punlapa Borklom, (King Mongkut's Institute of Technology Ladkrabang), Topic: **Crucial role of crystalline orientation of aluminum-doped zinc oxide seeding film on hydrothermally grown zinc oxide formation**
18. **S9_P17**, Wattana Koetnuyom, (King Mongkut's University of Technology North Bangkok), Topic: **Fabrication of SnO₂ Thin Films by Reactive Gas-timing DC Magnetron Sputtering on LTCC substrate for NO₂ Sensor**
19. **S9_P21**, Suwan Plaipichit, (Srinakharinwirot University), Topic: **Preparation of TiN nanorods for SERS substrate by controlling pulse width of high power impulse magnetron sputtering**
20. **S9_P26**, hornsawat Baipaywad, (CMU), Topic: **Facile Preparation of Poly(N-Isopropylacrylamide) /Graphene Oxide Nanocomposites for Chemotherapy**
21. **S9_P34**, Mongkol Kongtunmon, (SUT), Topic: **Effect of Annealing Atmosphere on Physical and Electrical Properties of MgO Thin Film in Tunneling Magnetoresistance Sensor**
22. **S10_P2**, Sarayut Tunmee, (Synchrotron Light Research Institute), Topic: **The improvement in gas barrier performance of diamond-like carbon films deposited on polyethylene terephthalate sheets using bipolar pulsed-PECVD method**
23. **S10_P5**, Phakphanan Pakawani, (Synchrotron Light Research Institute), Topic: **Development of an X-ray mirror based on ultrathin B₄C/W multilayers prepared by magnetron sputtering**
24. **S11_P9**, Katchet Rattanabutbenja, (Suan Sunandha Rajabhat University), Topic: **STEM Activities for Robot and Packaging Design Camp**
25. **S12_P4**, Ms. Nicha Sato, (Nara Institute of Science and Technology, Japan), Topic: **Nanoparticulate Modified Microelectrode for Neurotransmitters Detection by Fast-Scan Cyclic Voltammetry**
26. **S14_P14**, Prom Kantuptim, (Nara Institute of Science and Technology, Japan), Topic: **Optical and scintillation properties of Ce-doped Y₂Si₂O₇ single crystal**
27. **S14_P10**, Prapon Lertloypanyachai, (Muban Chombueng Rajabhat University), Topic: **Optical and scintillation properties Mg²⁺ co-doped Gd₂YAl₂.4Ga₂.6O₁₂Ce ceramic scintillator**