

THESIS PRESENTATION SCHEDULE

March 7, 2025 (FRI)

10:30-12:00	A - 大專生新秀獎 A (College Student Research Award A)	靜安樓 103
A01	Liquid crystal sensor for Cr(III)-citrate detection via interfacial coagulation	
A0017	Chuang Yung Jung, Tamkang University	
A02	探討非核醣體胜肽生物合成之機制	
A0019	Wei-Yen Liao, National Taiwan University	
A03	Palladium-Mediated ortho C-H Bond Activation and Functionalization/Transformation of Dibenzosuberone and Mechanistic Investigation	
A0028	You-Zhen Lin, National Taitung University	
A04	High-Efficiency OLEDs Enabled by Innovative Quinoxaline-Based Exciplex Hosts	
A0031	楊育禱, 靜宜大學	
A05	合成銅頁矽酸鹽孔洞材料應用於溶液中硫化氫之吸附	
A0033	Xuan-Ci Hu, National Cheng Kung University	
A06	Structural Effect of Intermolecular Hydrogen Bonding of Non-conjugated Molecules on the Formation of Clustering Triggered Emission	
A0034	Yu Chi Hsieh, Tamkang University	
13:30-15:00	A - 大專生新秀獎 A (College Student Research Award A)	靜安樓 103
A08	Judicious Molecular Design of 5H-Dithieno[3,2-b:2',3'-d]pyran-based Hole-Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells	
A0036	Chia-Hui Lin, Soochow University	
A09	Understanding the Sequence Determinants of NRP Thioesterase Function	
A0042	Fa-Neng Thomas Ma, National Taiwan University	
A10	Synthesis of NiO Catalysts Reducible under Hydrogen Atmosphere at Particularly Low Temperature	
A0043	Yun Hsuan Tsai, National Cheng Kung University	
A11	以軟模板法合成氧化矽載體並搭載鐵應用於 SO₂ 吸附	
A0048	Yi-Yuan Tseng, National Cheng Kung University	
A12	Stimuli-Responsive Complex Emulsions: Morphology Control in Liquid-Liquid System and Liquid Crystal-Liquid System	
A0052	Chun-Yu Huang, National Dong Hwa University	
A13	Enhanced Performance of Photocatalytic CO₂ Reduction Using Cu@Graphene Nanoparticle-decorated Co₃O₄ Nanoneedles	
A0055	Yi-Xuan Lin, University of Taipei	
15:15-17:45	A - 大專生新秀獎 A (College Student Research Award A)	靜安樓 103
A14	C-H Bond Activation Using Metal-Organic Frameworks and Heterogenization of Homogeneous Catalysts	
A0061	Xin-Yi Lin, National Taiwan Normal University	
A15	Synthesis and Catalytic Investigation of N-Heterocyclic Carbene Palladium Complexes Incorporating Hexamethylenetetramine Ligands in Suzuki Coupling Reactions	
A0066	Zi-Yi Zheng, Providence University	

15:15-17:45**A - 大專生新秀獎 A (College Student Research Award A)****靜安樓 103****A16 2-Mercaptobenzimidazole Modified hydrophobic Ag Nanowire for Industrial CO₂****A0068 Reduction to CO**

Shuo-Peng Lin, national yang ming chiao tung university

A17 Ultrasensitive Detection of Tetracycline Using Inner-Filter Effect-Induced**A0023 Phosphorescence Quenching of Carbon Dots**

趙承宇, 國立中山大學

A18 Co(II) and Mn(II)-based low-dimensional coordination polymers from 4-(4-Methyl-2-pyridyl)pyrimidine: crystal structures and magnetic properties**A0101**

Wan-Chi Yang, Tunghai University

A19 Asymmetric Norrish Type II Rearrangement For the Synthesis of α -Substituted- β,γ -Unsaturated Esters**A0093**

Pei-Shan Lin, National Sun Yat-sen University

A20 The synthesis of mesoporous silica and its application for ammonia and PET recycle adsorption**A0074**

Po-Hsuan Wu, National Cheng Kung University

A21 In situ generation of CuOx nanoparticles with the peroxidase-like activity at neutral pH : mechanism study and application**A0011**

Yu-Hsuan Huang, Fu Jen Catholic University

A22 Structural Diversity, Dimensionality and Interpenetration of Seven Co(II) Coordination Polymers Constructed by 1,3,5-tris(4-pyridylsulfanyl-methyl)-2,4,6-trimethyl-Benzene (L1) and Multi-carboxylate Ligands**A0070**

Tsai-Ni Chen, Soochow University

A23 Investigation of 77K Phosphorescence Characters for Ru-(bi-Dentated Cyclometalated Ligand) Chromophore**A0013**

吳冠樺, 天主教輔仁大學

10:30-12:00**B - 大專生新秀獎 B (College Student Research Award B)****靜安樓 105****B01 One-Dimensional Tin Dioxide Catalysts Enable Industrial CO₂ Reduction Reaction to Formic Acid****A0069**

Ching-Ya Wang, National Yang Ming Chiao Tung University

B02 合成一系列含硒元素的黃酮醇與其黃酮醇-鈉錯合物抗癌藥物**A0071**

湯美馨, 淡江大學

B03 Spatial Confinement Effect of SnO₂ Nanospheres Catalysts Enables Ampere-Level CO₂ Reduction to Formic Acid and Artificial Photosynthesis system**A0072**

Chi Kang, National Yang Ming Chiao Tung University

B04 Tissue metabolomic analysis of renal cell carcinoma using differential ¹²C₂-/¹³C₂-isotope dansylation labeling combine with LC-QTOF-MS and LC-MRM-MS**A0073**

Hsiang Cheng Tu, Chang Gung University

B05 Synthesis of novel amino-boryloxy zinc complexes and their catalytic study in ring-opening polymerization**A0082**

Pei Yu Lin, Providence University

B06 Synthesis of Novel Bis(biphenyl)-Substituted Bipyrazolo[1,5-a]pyridine Derivatives via C-H Bond Activation: Investigation of Their Photophysical Properties, Aggregation-Induced Emission Enhancement, and Applications**A0088**

Yi Hua Jiang, National Taitung University

13:30-15:00		B - 大專生新秀獎 B (College Student Research Award B)	靜安樓 105
B07 A0089	導電高分子聚噻吩正極結合新型多功效離子凝膠電解質開發具可撓式且可快速自充電的柔性電化學儲能裝置	Ke-Yun Tong, Providence University	
B08 A0090	Anion Effect on the CuII–Neocuproine Mediator and Its Electrocatalysts for Dye-Sensitized Solar Cells: Polymeric Chalcogenides of PEDOT–PEDTT	Xin-Bei Lin, National Taiwan Normal University	
B09 A0091	Hierarchical Single-Phase Co ₉ S ₈ Nanoneedles for Photocatalytic CO ₂ Reduction	Chu-Jung Huang, University of Taipei	
B10 A0094	Proteomic and Metabolomic Features for Diagnosis and Treatment Responsiveness Prediction of COPD	Pei Yu Hu, Taipei Medical University	
B11 A0095	Full-Spectrum Iridium(III) Complexes in Light-Emitting Electrochemical Cells (LECs): Novel Molecular Design and EQE Near 40%	Che-Lun Chang, Providence University	
B12 A0096	Design and Synthesis of Novel AIEgens Based on Imidazole-Pyridine Conjugates	Wei-Ting Chien, Chung Yuan Christian University	
15:15-17:30		B - 大專生新秀獎 B (College Student Research Award B)	靜安樓 105
B13 A0097	Copper-Based Near-Infrared Emitters: Pushing the Limits of Wavelength for Light-Emitting Electrochemical Cells (LECs)	ChenYou Weng, Providence University	
B14 A0100	Effects of Artificial Graphite Modification on Lithium-Ion Diffusion, SEI Formation, and Lithium Deposition Behavior for Battery Safety	Tzu-Yu Shen, National University of Tainan	
B15 A0103	Use Carbazole Derivatives as Host Materials for Phosphorescent Organic Light-Emitting Diodes	林峻丞, 靜宜大學	
B16 A0098	Structurally Modified Sterol Analogues Influence the Metabolic Labeling of Cholesteryl Glucosides in Helicobacter pylori	Shu-Yun Chang, National Taiwan University	
B17 A0030	Electrochemical sensor based on a deep eutectic solvent molecularly imprinted polymers @ AuAgNPs/rGO for detection of acetaminophen	Chin-Chun Hsu, Soochow University	
B18 A0027	Highly selective colorimetric and smartphone-based paper assay using malic acid-functionalized silver nanoparticles for thiram detection	Kuan-Hsun Chen, National Taitung University	
B19 A0099	Nickel-Catalyzed Stereoconvergent Cross-Coupling of (E)- and (Z)- Mixed Alkenyl Methyl Ethers	You-You Chou, National Kaohsiung Normal University	
B20 A0102	Design and Preparation of Flexible, Stretchable, and Self-Healing Conductive Hydrogels	Chien-Yin Lin, Chung Yuan Christian University	
B21 A0075	Structural Diversity, Diversity and Interpenetration of Five type Solvent-dependent Structural Isomeric MOFs of [Ni(4-bpd)2(NCS)2] (4bpd=1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene)	Wang Hsiao Ling, Department of Chemistry	

10:30-11:30		C - 分析化學 (Analytical Chemistry)	靜安樓 111
C01 A0003	Development of Advanced Electrochemical Biosensor and Smart Antibacterial Surface Empowered by Conductive and Responsive Polymers for Biomedical Applications	Syed Atif Ali, Academia Sinica	
C02 A0020	Applications of Functional Nanostructure-Based Smart Materials in Surface Enhanced Raman Scattering, Thermal Stability and Hydrochromism	Kai-Jie Chang, National Yang Ming Chiao Tung University	
C03 A0051	Investigate the role of the Cyanamide group within the Potassium-Poly(Heptazine Imide) Structure on its Photocatalytic Performance	Ci-Syuan Lan, National Cheng Kung University	
C05 A0086	Small-Molecule Modulated Affinity-Tunable Semisynthetic Protein Switches and its Application	Chien-Chi Wu, National Tsing Hua University	
13:30-15:15		C - 分析化學 (Analytical Chemistry)	靜安樓 111
C07 A0053	Enhanced Electrochemiluminescence Detection of Dopamine Using Antifouling PEDOT-Modified SPEs for Complex Biological Samples	Tzu-Yu Kao, National Taiwan University	
C08 A0058	Aggregation-Induced Emission Luminogen-doped Liquid Crystal Sensor for CO₂ Detection	Tsung Yang Ho, Tamkang University	
C09 A0059	The Development of Portable Liquid Crystal Sensing Devices	Jhih-Wei Huang, Tamkang University	
C10 A0060	Design High-Efficiency Microreactors for Environmental Sustainability and Clinical Application	Chun-Hao Chang, National Yang Ming Chiao Tung University	
C11 A0077	Surfactant Effects on Perovskite-Like Cobalt Formate Coordination Polymer and Its Application as Electro-Catalyst in Dye-Sensitized Solar Cells	Yu-Chien Lee, National Taiwan University	
C12 A0079	Fluorescent complex emulsions: Real-time sensors and portable microreactors	Rakesh Narani, National Dong Hwa University	
C13 A0084	Physical and Chemical Insights into Water-Biomolecule-Interface Interactions on Functionalized Nanostructured Conducting Polymers	Chia-Hsin Lin, National Taiwan University	
10:30-11:15		D - 物理化學 (Physical Chemistry)	靜安樓 113
D01 A0001	Theoretical Study on the Changes in the Hydrogen Evolution Activity of a Defective MoS₂ Surface Over Time Due to Surface Reconstruction	Cheng-Te Tsai, National Sun Yat-sen University	
D02 A0007	One-step Synthesis to Upgrade Biochar into Graphite-like Multi-porous Carbon with High Specific Surface Area, High Nitrogen Content and High Electrical Conductivity for Supercapacitor Application	Shu-Sian Wang, National Cheng Kung University	
D04 A0092	Solvent and Light-Induced Self-Assembly Behavior of Block Copolymers in Confined Environments and Their Application in Solid Electrolytes	Yu-Hsuan Tseng, National Yang Ming Chiao Tung University	

13:30-15:30**E - 化學生物/生物化學 (Biochemistry and Chemical Biology)****靜安樓 113**

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- E01**
A0006 **Acceptor-Mediated Regioselective Enzyme-Catalyzed Glycosylations and Mammalian Glycosyltransferases in the Applications of Glycan Syntheses**
Hsin-Kai Tseng, National Tsing Hua University
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- E02**
A0025 **Oriented and Covalent Immobilization of Antibody Through Its N-glycan**
Wen-Hua Kuo, National Tsing Hua University
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- E03**
A0026 **Reverse Phase Protein Array from Overexpressed ORF Clones Reveals a Novel Tyrosine Kinase in Escherichia coli**
Batuhan Birol Keskin, National Cheng Kung University
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- E04**
A0029 **Interactions between Nano/Micro-Sized Particles and Microbes for Agricultural and Environmental Applications**
Li-Ting Yen, Academia Sinica
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- E05**
A0040 **Mass Spectrometry-based Omics Research of Djulis, Bee Products, and Tea**
Yi-Feng Zheng, National Chung Hsing University
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- E06**
A0063 **Insight into the recognition between Shiga toxin B and Gb3: from precision science to potential applications**
Zong-You Lee, Academia Sinica
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- E07**
A0064 **To explore the proteomic changes for young plasma transfusion in the recovery of Traumatic brain injury mice**
Wen Chen Chen, Chang Gung University
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- E08**
A0067 **Chemoenzymatic Synthesis of Asymmetrically Branched HMOs : Lacto-N-neooctose and Its Fucosyl Derivatives**
Tsung-Han Ho, National Tsing Hua University

10:30-12:00**F - 有機化學/藥物化學 (Organic Chemistry/ Medicinal Chemistry)****靜安樓 114**

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- F01**
A0004 **Epoxides and carbon tetrabromide serve as controllable building blocks for C-O and C-N bond formation**
Alageswaran Jayaram, Kaohsiung Medical University
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- F02**
A0009 **Trifluoroethanol-mediated Decarboxylative Addition Reactions of β -Ketoacids with Diverse Electrophiles / Organocatalytic Vinylogous Cascade Reaction of Indane-1,3-diones with Enals and The Rearrangement Reaction Thereafter**
Jen Yu Kuan, National Chung Hsing University
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- F03**
A0014 **Efficient Synthesis of Type-I LacNAc Tetrasaccharide via Iterative Glycosylation and Photolysis**
Pei-Chi Huang, Academia Sinica
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- F04**
A0016 **Synthesis of Ganglioside SJG-2 Glycan**
Yung-Yu Su, National Tsing Hua University
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- F05**
A0021 **Incorporating Macrocyclic Structure to Develop Efficient Thermally Activated Delayed Fluorescence Emitter**
Chun-Yen Lin, National Taiwan University
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- F06**
A0037 **Development of Thermally Activated Delayed Fluorescence Molecules with Ultra-Narrow ΔE_{ST} and Analysis of Their Exciton Dynamics**
Wen Hao Zhang, Tamkang University
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13:30-15:00		F - 有機化學/藥物化學 (Organic Chemistry/ Medicinal Chemistry)	靜安樓 114
F07 A0045	The molecular mechanism underlying small molecule compound Nudiposide-mediated astrocyte-to-neuron conversion	Yu-Tang Lee, National Tsing Hua University	
F08 A0046	Development of a Novel Chlorodifluoro-acetamide Protecting Group as an Oxazoline Glycosyl Donor for Glycan Synthesis	Riping Phang, Academia Sinica	
F09 A0047	Crafting Responsive Films via Layer-by-Layer Process Using Upcycled Materials	Chun Ting Chang, National Yang Ming Chiao Tung University	
F10 A0057	Design and Synthesis of Organic Small Molecule based Charge Transporting Materials for Perovskite Solar Cells	Rajarathinam R Ramanujam, Academia Sinica	
F11 A0076	One-Pot Synthesis of 4-Substituted and 1,4-Disubstituted 1,2,3-Triazole Using α-Diazo Ketone	Min-Cheng Chien, National Tsing Hua University	
F12 A0080	White Light Emission-Based [c2]Daisy Chains and [1]Rotaxanes of Mechanically Interlocked Molecules for Various Sensor Applications	Trung Thanh Nguyen, National Yang Ming Chiao Tung University	
15:15-15:45		F - 有機化學/藥物化學 (Organic Chemistry/ Medicinal Chemistry)	靜安樓 114
F13 A0083	Palladium-Catalyzed Intramolecular Oxidative Etherification of Phenols: Synthesis of Hydrodibenzofuranone	Yu Chieh Cheng, National Yang Ming Chiao Tung University	
F17 A0105	Development of New Gold and Phosphine-Catalyzed Organic Reactions	Vikas Ashokrao Sadaphal, National Tsing Hua University	
10:30-12:00		G - 無機化學 (Inorganic Chemistry)	靜安樓 115
G01 A0008	Tailoring Carbonaceous Materials for Valorizing Biomass-Derived Feedstocks: A Sustainable Route to Fine Chemicals	Gemechu Dadi Bedasso, Institute of Chemistry, Academia Sinica	
G03 A0015	Investigation on Denticity Governance, Cuprophilicity, Reactivity and Self-assembly Properties or Bio-Inspired Concerns via β-Thioetiminato Copper(I) Complexes	Venkata Sai Sashankh Penki, Kaohsiung Medical University	
G04 A0018	2-吡啶脲醯胺衍生物的合成及辨識行為研究	Zhe-Wei Wu, Chaoyang University of Technology	
G05 A0024	Synthesis and Reactivity Study of m-Terphenyl Substituted Borinium Cation	Bo-An Chen, National Taiwan University	
G06 A0032	Doping effects of dichalcophosphate supported silver-rich superatoms	Tzu-Hao Chiu, National Dong Hwa University	

13:30-14:30		G - 無機化學 (Inorganic Chemistry)	靜安樓 115
G07 A0039	利用二硫磷酸配位基合成銅銀超原子合金團簇的研究/以有機橋接分子連接超原子銀奈米簇及其光物理性質 閻葦嶸, National Dong Hwa University		
G08 A0050	Highly Stable Perovskite Quantum Dot Glass Composite Materials for Light Emitting-Diodes Ching Liu, National Taiwan University		
G09 A0062	Investigating Phosphorescence Characteristics of Os-(2,2'-bipyridine) Chromophore: Integration of Low-Temperature Observations and DFT Spin-Orbit Coupling Modeling YuHui Lin, Fu Jen Catholic University		
G10 A0065	海藻酸鈉、殼聚糖、稻穀殼、薑黃素之多功能創新綠色複合薄膜 Min Hsuan Tsou, National Taiwan Ocean University		
15:15-16:15		G - 無機化學 (Inorganic Chemistry)	靜安樓 115
G13 A0078	Synthesis and Characterization of Partially Fused N-doped Nanographene Rhenium complexes and Study on Mechanochromic Luminescence and Aggregation Induced Emission Properties of Pyrene Derivatives Eldhose Vadakkechalil Varghese, Kaohsiung Medical University		
G14 A0081	Chemical-Vapor-Deposition Enhanced Chromium doping in Iron-Cobalt Oxide for Efficient Alkaline Seawater Electrolysis in Membrane Electrode Assemblies Jian-Jie Ma, National Yang Ming Chiu Tung University		
G15 A0085	Investigation of Dioxygen Activation and Nitrite Reduction in Iron Complexes Hung-Ruei Pan, National Cheng Kung University		
G17 A0104	Exploring the structure variation of the solid solution $Zn_xMg_{1-x}Al_2O_4$ through the optical properties of Cr^{3+} and Ni^{2+} as activators in $MgAl_2O_4$ and $ZnAl_2O_4$ Yulun Huang, National Taipei University of Technology		