

# THESIS PRESENTATION SCHEDULE

## March 29

13:00-16:45	[A] 大專生新秀獎 (College Student Research Award) A 組	HC102
<b>A01 (A0004)</b> 13:00-13:15	<b>Dual-Functional Silver Nanoparticles for Colorimetric Detection of Cartap and Catalytic Degradation of Methyl Orange and Rhodamine B</b> Wei-Yu Wang, National Taitung University	
<b>A02 (A0015)</b> 13:15-13:30	<b>Hybrid Polymer Dot–Magnetic Nanoparticle Based Immunoassay for Dual-Mode Multiplexed Detection of Two Mycotoxins</b> Yu-Han Syu, National Yang Ming Chiao Tung University	
<b>A03 (A0020)</b> 13:30-13:45	<b>High-Activity and High-Selectivity Air-Stable Nickel and Copper Complexes for Copolymerization of Epoxides with Anhydrides</b> Mei-Ling Lin, Chinese Culture University	
<b>A04 (A0023)</b> 13:45-14:00	<b>Improved Stability P2-type <math>\text{Na}_{0.67}\text{-yKyMg}_{0.22}\text{Cu}_{0.11}\text{Mn}_{0.67}\text{O}_2</math> Layer-oxide Anionic Redox Cathodes for Sodium-Ion Batteries Incorporating <math>\text{K}^+</math>-doping</b> Chien Hao Yeh, National Tsing Hua University	
<b>A05 (A0027)</b> 14:00-14:15	<b>Steric Effect of Tertiary Amines on Surface Passivation of Ce-based Perovskite Electrocatalysts</b> Mei-Yu Chien, National Taiwan Normal University	
<b>A06 (A0032)</b> 14:15-14:30	<b>Highly efficient and well-defined phosphinous acid-ligated Pd(II) precatalysts for Hirao cross-coupling reaction</b> Li-Hui Hong, Providence University	
<b>A07 (A0034)</b> 14:30-14:45	<b>Total Synthesis of Tilivalline</b> Yu-Sheng Tsai Yuan, National Taiwan University	
<b>A08 (A0038)</b> 14:45-15:00	<b>Spectral studies of the reaction of the Criegee intermediate methyl vinyl ketone oxide with <math>\text{HC(O)OH}</math> using a step-scan time-resolved Fourier-transform infrared absorption spectrometer</b> Ju Yin Hsu, National Yang Ming Chiao Tung University	
<b>A09 (A0041)</b> 15:00-15:15	<b>Ultrahigh-Efficiency Cation Iridium(III) Emitters Applied in Light-Emitting Electrochemical Cells (LECs)</b> Yu-Ting Huang, Providence University	
<b>A10 (A0047)</b> 15:15-15:30	<b>Synthesis, Photophysical Measurement, and Aggregation-Induced Emission Enhancement Investigation of Novel 3,7-Diarylpyrazolo[1,5-a]pyridine Luminogens</b> Binghan Zhuang, National Taiwan Taitung University	
<b>A11 (A0048)</b> 15:30-15:45	<b>Measuring multiplexed EGFR mutation towards precision oncology by Immunoaffinity enrichment coupled with PRM-MS and exploring matrix effects in protein absolute quantification</b> Chia-Yen Wang, National Taiwan University	
<b>A12 (A0060)</b> 15:45-16:00	<b>Determination of Homocysteine in Human Plasma with a Silver Nanopaste-based Microfluidic Device</b> Hsiang-Wei Chiu, Soochow University	
<b>A13 (A0061)</b> 16:00-16:15	<b>Synthesis of Isoindoline with a Quaternary Chiral Center via Asymmetric Synergistic Catalysis</b> Jin-Yu Wang, National Sun Yat-sen University	

13:00-16:45	[A] 大專生新秀獎 (College Student Research Award) A 組	HC102
<b>A14 (A0068)</b> 16:15-16:30	<b>The Development and Application of Asymmetric Organocatalyzed Cyclization Reaction of 1,3- Cyclohexanediones and 2,3-Dioxopyrrolidines</b> 歐承諭, 國立中興大學	
<b>A15 (A0097)</b> 16:30-16:45	<b>以(銅-硫) 6 金屬簇與二價銅離子合成之新穎二維金屬有機骨架材料</b> 江仲霖, 天主教輔仁大學	
13:00-17:00	[B] 大專生新秀獎 (College Student Research Award) B 組	HC104
<b>B01 (A0070)</b> 13:00-13:15	<b>Peptide-based AIE fluorescent tag for detecting the amyloid formation by islet amyloid polypeptide</b> Shu-An Shi, National Taiwan Normal University	
<b>B02 (A0071)</b> 13:15-13:30	<b>Palladium-Catalyzed ortho C-H Activation/Arylation of 7-Arylpyrazolo[1,5-a]pyridines and Mechanistic Investigation</b> Lin-En Zeng, National Taitung University	
<b>B03 (A0080)</b> 13:30-13:45	<b>Sulfur to Oxygen Substitution in the PEDOT/PEDTT Copolymer Films and its Effect on the Electro-catalytic Properties</b> Xin-Bei Lin, National Taiwan Normal University	
<b>B04 (A0083)</b> 13:45-14:00	<b>Mei5-Sae3 Stabilizes Small Dmc1 Oligomers for Efficient Dmc1 Assembly on RPA-Coated Single-Stranded DNA</b> Chin-Dian Wei, National Taiwan University	
<b>B05 (A0084)</b> 14:00-14:15	<b>Organic dyes containing bis(2',6'-bis(hexyloxy)-[1,1'-biphenyl]-4-yl)amino)phenyl for dye-sensitized solar cells</b> Yu-Pei Cheng, National Central University	
<b>B06 (A0085)</b> 14:15-14:30	<b>利用棒式塗佈法控制 C3 對稱盤形液晶衍生物於不同基材之配向研究</b> Shao-Chen Lu, National Taipei University of Technology	
<b>B07 (A0087)</b> 14:30-14:45	<b>藉由 3-芳磺烷基指甲花醌作為高活性亞烷基前驅物經分子內威梯反應合成蔡並呔喃醌衍生物</b> Guan You Lin, National Taiwan Normal University	
<b>B08 (A0092)</b> 14:45-15:00	<b>Investigating the optoelectronic properties of hydrogen-doped Cs<sub>2</sub>AgBiBr<sub>6</sub> thin films</b> Heng-Chi Chu, National Taiwan University	
<b>B09 (A0094)</b> 15:00-15:15	<b>Desymmetrization of Cyclohexadienones through Phase-Transfer-Catalyzed Stereoselective Intramolecular Aza-Michael Addition with Chiral Sulfinamide Nucleophiles / Asymmetric Substitution of Allylic Alcohols via Synergistic Palladium and Chiral Brønste</b> Bing Syuan Wu, Tunghai University	
<b>B10 (A0098)</b> 15:15-15:30	<b>Computational design and screening of Single-Atom Phthalocyanine-Coordinated transition metal catalysts for the electrochemical cyanide reduction reaction</b> Chen-Hao Fan, Chinese Culture University	
<b>B11 (A0099)</b> 15:30-15:45	<b>Non-Equivalent Iodide Ions Boosting the Bismuth-Based Catalysts to Achieve Industrial CO<sub>2</sub> Reduction to Formic Acid</b> Ming Hsuan Li, National Yang Ming Chiao Tung University	
<b>B12 (A0105)</b> 15:45-16:00	<b>In-situ Composition and Band Structure Investigation of Perovskite Thin Films via UPS and LEIPS Techniques</b> Man-Ying Wang, National Taiwan University	
<b>B13 (A0106)</b> 16:00-16:15	<b>Development of NIR-II Responsive Carbon Nanotube-Alginate Hydrogels for Controlled Drug Release</b> Jenny Lai, National Taiwan University	

<b>13:00-17:00</b>	<b>[B] 大專生新秀獎 (College Student Research Award) B 組</b>	<b>HC104</b>
<b>B14 (A0107)</b> <b>16:15-16:30</b>	<b>Versatile Synthesis of Symmetric and Unsymmetric Imines via Photoelectrochemical Catalysis: Application to N-Terminal Modification of Phenylalanine</b> Ting-Jun Lin, Soochow University	
<b>B15 (A0108)</b> <b>16:30-16:45</b>	<b>Bioinspired Photoredox Oxidation of Alcohols with Copper-containing Galactose Oxidase Analog</b> Chih-Hui Chou, Soochow University	
<b>B16 (A0113)</b> <b>16:45-17:00</b>	<b>Small-Molecule Passivation of Defect Perovskite for Photovoltaic Applications: A First-Principle Calculation Study</b> Yi-chen Wu, Providence University	
<b>14:00-15:45</b>	<b>[C] 分析化學 (Analytical Chemistry)</b>	<b>HC103</b>
<b>C01 (A0021)</b> <b>14:00-14:15</b>	<b>Integrating On-line Photo-induced Reduction and Microdroplet Digestion for Mapping Disulfide Linkages Using Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)</b> Chin Ming Kuo, Taiwan Semiconductor Manufacturing Company, Ltd	
<b>C02 (A0030)</b> <b>14:15-14:30</b>	<b>Integrated Strategies in Mass Spectrometry-Based Metabolomics: From Single-Cell Analysis to Disease Biomarker Investigation</b> Kai-Wen Cheng, National Taiwan University	
<b>C03 (A0051)</b> <b>14:30-14:45</b>	<b>Development A Variable Window DIA Method for Multiplexed Quantitation of Lung Cancer Drug Targets</b> Huan-Chi Chiu, Academia Sinica	
<b>C04 (A0062)</b> <b>14:45-15:00</b>	<b>Creating liquid crystal microdroplet arrays for multiplexed sensing by spatially-controlled molecular patterning</b> Chung-Yun Chang, National Taiwan University	
<b>C05 (A0075)</b> <b>15:00-15:15</b>	<b>探討鈷摻雜溴化銻鉛鈣鈦礦量子點之合成與其在含氯揮發性氣體的光降解影響與光學感測之應用</b> 郭家騫, 逢甲大學	
<b>C06 (A0090)</b> <b>15:15-15:30</b>	<b>Differential Metabolomics for Mouse Liver Induced by Microplastics Utilizing SWATH-based Mass Spectrometry</b> Kuan-Lu Wu, National Taiwan Normal University	
<b>C07 (A0029)</b> <b>15:30-15:45</b>	<b>Cytotoxicity and human health risk evaluated by whole sediment extraction</b> Meng Wei Lin, National Yang Ming Chiao Tung University	
<b>13:00-17:00</b>	<b>[D] 化學合成 (Chemical Synthesis), 有機化學 (Organic Chemistry)、藥物化學 (Medicinal Chemistry)</b>	<b>HC106</b>
<b>D01 (A0037)</b> <b>13:00-13:15</b>	<b>Facile Solid-Phase Method for The Preparation of Peptidols through Dbz Resin</b> Szu-Hsuan Chen, National Tsing Hua University	
<b>D02 (A0077)</b> <b>13:15-13:30</b>	<b>Total synthesis of Campylobacter jejuni NCTC11168 CPS assisted with iMAP (intramolecular anomeric protection) 1,6-anhydro strategy</b> Chun-Hong Yeh, I National Tsing Hua University	
<b>D03 (A0010)</b> <b>13:30-13:45</b>	<b>Thioacetal Framework as a Selective Probe for Sensor of Mercury(II) Ions</b> Lin Yu-Hsuan, Tunghai University	

<b>13:00-17:00</b>	<b>[D] 化學合成 (Chemical Synthesis), 有機化學 (Organic Chemistry)、藥物化學 (Medicinal Chemistry)</b>	<b>HC106</b>
<b>D04 (A0019)</b> <b>13:45-14:00</b>	<b>A Regioselectivity Switch between Enantioselective 1,2- and 1,4-Addition of Allyl Aryl Ketones with 2,3- Dioxopyrrolidines</b> Bo-Wei Huang, National Chung Hsing University	
<b>D05 (A0024)</b> <b>14:00-14:15</b>	以氯化鉀鈍化界面及以二硫化鉬混合於主動層之三重陽離子鈣鈦礦太陽能電池的特性研究 Ying Ting Wang, National Taipei University of Technology	
<b>D06 (A0028)</b> <b>14:15-14:30</b>	<b>Gold-Catalyzed Reaction between Alkynes and Diazo to afford Functionalized Carbo and Hetrocycles</b> AkshaySubhash Narode, National Tsing Hua University	
<b>D07 (A0033)</b> <b>14:30-14:45</b>	<b>Direct <math>\alpha</math>-Functionalization of Cyclic Enones and Synthetic Study toward Natural Product (<math>\pm</math>)-Waihoensene</b> Po-Chou Chen, National Tsing Hua University	
<b>D08 (A0045)</b> <b>14:45-15:00</b>	<b>Vinylogous Michael Addition-triggered Quadruple Cascade of Arylidene-Pyrazolone and Arylidene-Indandione: Organocatalytic Enantioselective Construction of Complex (Caged) Scaffold with Five/Four Quaternary Stereocenters / Synthesis of Indenofuranone Derivatives by Utilizing Alkylphosphites or Phosphonates</b> Tzu-Chun Yen, National Taiwan Normal University	
<b>D09 (A0055)</b> <b>15:00-15:15</b>	<b>Visible Light-Induced Metal-Free Synthesis of All-Carbon Azetidine via Ring Strain Release</b> Chen-Kuei Shih, National Sun Yat-Sen University	
<b>D10 (A0058)</b> <b>15:15-15:30</b>	<b>Efficient Synthesis of 2-Aminomethyl Uronic Isofagomine to Develop Inhibitors of Bacterial <math>\beta</math>-Glucuronidases</b> Cheng-Ting Yang, Academia Sinica	
<b>D11 (A0076)</b> <b>15:30-15:45</b>	<b>Gold-Catalyzed Divergent Synthesis of Highly Functionalized Heterocyclic Molecules</b> AmitVijay Sasane, National Institute Research of Chinese Medicine	
<b>D12 (A0100)</b> <b>15:45-16:00</b>	合成對稱與不對稱結構的薑黃素及其唑類與釷類之衍生物 Jason Cheng, Tamkang University	
<b>D13 (A0110)</b> <b>16:00-16:15</b>	<b>Divergent Reactions of Alpha-Aryl-Alpha-Fluoro Cyclic Vinylogous Esters with Diverse Trapping Modalities</b> Bing-Han Hsieh, National Yang Ming Chiao Tung University	
<b>D14 (A0052)</b> <b>16:15-16:30</b>	<b>Exploring the Total Synthesis and Bioactivities of Vitroprocine A and Its Derivatives</b> Wen-Di He, National Sun Yat-sen University	
<b>D15 (A0078)</b> <b>16:30-16:45</b>	<b>Synthesis and Biological Applications of Bacterial Peptidoglycan-based Probes</b> Chun-Kai Wang, Academia Sinica	
<b>D16 (A0079)</b> <b>16:45-17:00</b>	<b>Synthesis of 6-amino-2-styrylchromones and selenophene and it's derivatives</b> Ya-Chen Chen, Tamkang University	
<b>09:30-11:45</b>	<b>[E] 物理化學 (Physical Chemistry), 應用化學 (Applied Chemistry)</b>	<b>HC103</b>
<b>E01 (A0005)</b> <b>09:30-09:45</b>	<b>Development of New All-Inorganic Perovskite Nanomaterials by Using the Recrystallization Process and Kinetic Studies of their Reaction Mechanism</b> Yi-Chia Chen, Tunghia University	
<b>E02 (A0012)</b> <b>09:45-10:00</b>	<b>A Computational Study on Design and Interfacial Degradation of Solid-State Polymer Electrolytes for All-Solid-State/Anode-Free Lithium Metal Batteries</b> Liang-Ting Wu, National Taiwan University of Science and Technology	

<b>09:30-11:45</b>	<b>[E] 物理化學 (Physical Chemistry), 應用化學 (Applied Chemistry)</b>	<b>HC103</b>
<b>E03 (A0053)</b> <b>10:00-10:15</b>	<b>Monitoring How Nucleotides Modulate RAD51 Nucleoprotein Filaments Using Optical Tweezers</b> You-Yang Tsai, National Taiwan University	
<b>E04 (A0086)</b> <b>10:15-10:30</b>	<b>Elucidating Dynamics of Light Harvesting in Photosystem II Using Network Analysis and Coarse-Grained Models</b> Yun-Chung Yang, National Taiwan University	
<b>E05 (A0036)</b> <b>10:30-10:45</b>	<b>Morphology Control and Sensing Applications of Stretchable and Healable Electrospun Fibers</b> Hsun-Hao Hsu, National Yang Ming Chiao Tung University	
<b>E06 (A0044)</b> <b>10:45-11:00</b>	<b>應用於植物與動物之近紅外光與其奈米技術</b> Wen-Tse Huang, National Taiwan University	
<b>E07 (A0054)</b> <b>11:00-11:15</b>	<b>The Development of Photochromic Hydrazone Derivatives for Bio-imaging and Micro-patterning</b> Bryan Po-Wen Chen, Academia Sinica	
<b>E08 (A0082)</b> <b>11:15-11:30</b>	<b>Using Triplex DNA nanoswitches in the development of bioanalytical platforms</b> Pei-Ying Lin, National Taiwan University	
<b>E09 (A0089)</b> <b>11:30-11:45</b>	<b>Developments of Frontier Two-Dimensional (Cu-S)<sub>n</sub> Metal-Organic Frameworks/Polymers/Graphene Composites in Peroxidase-like Catalytical, Gas Sensing, Anticorrosive, and Electrochemical Sensing Applications</b> Xiao-Yuan Lin, Fu-Jen Catholic University	
<b>13:00-16:00</b>	<b>[F] 無機化學 (Inorganic Chemistry)</b>	<b>HC107</b>
<b>F01 (A0003)</b> <b>13:00-13:15</b>	<b>Theoretical study of the photoelectron spectra of methylketene</b> Hsiang-Yu Chen, National Taichung University of Education	
<b>F02 (A0006)</b> <b>13:15-13:30</b>	<b>A Bis-(carbonyl) Pincer Ligand: Synthesis, Characterization and Coordination Chemistry</b> Bamlaku Semagne Aweke, Academia Sinica	
<b>F03 (A0014)</b> <b>13:30-13:45</b>	<b>Spinel-Type Structure Short-Wave Infrared Phosphor for Improving the Accuracy of Artificial Intelligence Identification System</b> Yu Kai Huang, National Taipei University of Technology	
<b>F04 (A0018)</b> <b>13:45-14:00</b>	<b>A Novel Iron Hydride Complex Featuring a Fe<sub>2</sub>(μ-H)<sub>2</sub> Core: Study on Reactivity and Application</b> Yi Wun Ding, National Yang Ming Chiao Tung University	
<b>F05 (A0022)</b> <b>14:00-14:15</b>	<b>Development of the bisdithiolene-based organometallic complexes with near-infrared-II absorption and their application in solar-steam generation</b> Yung-Tsung Yang, National Kaohsiung University of Science & Technology	
<b>F06 (A0026)</b> <b>14:15-14:30</b>	<b>Chiral Aluminum Cation Catalyzed C2-Functionalization of Indole via Asymmetric Michael Addition</b> Chuchiao Wen, National Taiwan University	
<b>F07 (A0059)</b> <b>14:30-14:45</b>	<b>Carbon Nanofiber-supported Nickel Single Atom Catalyst for the Industrial Criteria of CO<sub>2</sub> to CO Conversion</b> Hsin-Jung Tsai, National Yang Ming Chiao Tung University	
<b>F08 (A0069)</b> <b>14:45-15:00</b>	<b>Investigating of Photo-Induced Charge-Transfer Behaviors of the Bidentate Cyclometalated-Bridge [Di-Ru]<sup>2+/3+</sup> ions: Observations and DFT Modeling for the Ground State Mixed-Valence [Di-Ru]<sup>3+</sup> and Excited-State Relaxations [Di-Ru]<sup>2+</sup></b> Li-Ting Zhuo, Fu Jen Catholic University	

13:00-15:45	[F] 無機化學 (Inorganic Chemistry)	HC107
F09 (A0074)	氮硫配位金屬錯合物與還原氧化石墨烯混成材料於有機及染料敏化太陽能電池之應用	
15:00-15:15	Kunling Teng, Fu Jen Catholic University	
F10 (A0093)	<b>Understanding the Saccharide Adsorption Dynamics Using Hydrotalcite-derived Oxides</b>	
15:15-15:30	Chih-Hsuan Tsai, Academia Sinica	
F11 (A0112)	<b>Synthesis, Structural Characterization and Properties of Zn(II) MOFs Constructed by tripodal thioether-based pyridinyl-type Ligand and Carboxylate Ligands</b>	
15:30-15:45	Yu-Chen Chung, Soochow University	