

## 第一組 1-15

| 海報<br>編號 | 投稿者姓名 | English Name   | 系所<br>Department/ Institute          | 論文題目(中文)<br>Research Title (Chinese)                 | 論文題目(英文)<br>Research Title (English)                                                                                                                                                                           | 展示方式<br>Display | 11/06中餐<br>Lunch Box |
|----------|-------|----------------|--------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|
| 1        | 邱冠嘉   | Kuan-Chia Chiu | 化學系 Department of Chemistry          | 以廢棄林業資材應用於超級電容                                       | Valorization of Forestry Waste for Energy Storage in Supercapacitors                                                                                                                                           | 僅海報<br>Poster   | 葷 Regular            |
| 2        | 徐詳喻   | Hsiang-Yu Hsu  | 化學系 Department of Chemistry          | 以 DFT 與 CREST Meta-Dynamics 進行銅(I)水合叢集之全面構像探索        | Comprehensive Conformational Exploration of Hydrated Cu <sup>+</sup> Clusters via DFT and CREST Meta-Dynamics                                                                                                  | 僅海報<br>Poster   | 葷 Regular            |
| 3        | 蔣子豪   | Tzu-Hao Chiang | 光電科學與工程學系<br>Department of Photonics | WGM雷射的 CsPbBr <sub>3</sub> 量子點聚合物微纖維具高防水性            | Waterproof CsPbBr <sub>3</sub> Quantum-Dots-Embedded Polymer Microfibers for Whispering Gallery Mode Lasing                                                                                                    | 僅海報<br>Poster   | 葷 Regular            |
| 4        | 王大容   | Da-Rong Wang   | 光電科學與工程學系<br>Department of Photonics | 室溫無溶劑水性奈米壓印 TiO <sub>2</sub> 奈米光柵 用於電漿增強寬頻光偵測器       | Room-Temperature Binder-Free Aqueous Nanoimprint of TiO <sub>2</sub> Nanogratings for Plasmonic Broadband Photodetectors                                                                                       | 僅海報<br>Poster   | 葷 Regular            |
| 5        | 王宜婷   | Yi-Ting Wang   | 光電科學與工程學系<br>Department of Photonics | 耐水性的染料摻雜 PMMA 微纖維耳語迴廊雷射於水相倏逝場折射率感測之應用                | Water-Resistant Dye-Doped PMMA Microfiber Whispering-Gallery Lasers for Aqueous Evanescent-Field Index Sensing                                                                                                 | 僅海報<br>Poster   | 葷 Regular            |
| 6        | 劉健伶   | Jie-Ling Liou  | 光電科學與工程學系<br>Department of Photonics |                                                      | Optical Characteristics of Quasi 2D Perovskites (BA) <sub>2</sub> (MA) <sub>n-1</sub> Pb <sub>n</sub> I <sub>3n+1</sub> (n = 1, 2, 3) and Upconversion Photoluminescence in (BA) <sub>2</sub> PbI <sub>4</sub> | 僅海報<br>Poster   | 葷 Regular            |
| 7        | 郭容甄   | Jung-Chen Kuo  | 地球科學系 Department of Earth Sciences   | 金瓜石金銅礦床矽化岩石新近發現三種次生砷酸鹽晶體之 礦物學特徵與生成作用                 | Mineralogical Characterization and Formation Processes of Three Secondary Arsenate Minerals Recently Found in Silicified Rocks from the Chinkuashih Au-Cu deposit                                              | 僅海報<br>Poster   | 葷 Regular            |
| 8        | 林苡學   | Yi-Shiue Lin   | 地球科學系 Department of Earth Sciences   | 台南地區2024年群震與孕震構造初步分析                                 | Preliminary Analysis of the 2024 Earthquake Swarm and Seismogenic Structures in the Tainan Area                                                                                                                | 僅海報<br>Poster   | 不用餐<br>No Need       |
| 9        | 賴力維   | Li-Wei Lai     | 地球科學系 Department of Earth Sciences   | 水熱合成法硫複鐵礦之磁自反轉機制探討                                   | Study on self-reversal mechanism of hydrothermal synthesis greigite                                                                                                                                            | 僅海報<br>Poster   | 葷 Regular            |
| 10       | 何玉暄   | Yu-Syuan Ho    | 地球科學系 Department of Earth Sciences   | 以實驗室萃取實驗評估矽酸鹽礦物差異風化對碳循環的影響                           | Evaluating the influence of incongruent silicate mineral weathering on the carbon cycle through laboratory extraction experiments                                                                              | 僅海報<br>Poster   | 葷 Regular            |
| 11       | 蔡宗翰   | Tsung-Han Tsai | 地球科學系 Department of Earth Sciences   | 影響CO <sub>2</sub> 地質封存效率的地質特性敏感度分析 - 以TOUGHREACT模擬為例 | Sensitivity Analysis of Geological Factors Affecting CO <sub>2</sub> Storage Efficiency: Three Cases Study Using TOUGHREACT Simulation                                                                         | 僅海報<br>Poster   | 葷 Regular            |
| 12       | 林耕宇   | Keng-Yu Lin    | 物理學系 Department of Physics           | 托卡馬克磁場測量儀器-3D B-dot 探針                               | 3D B-dot Probe as an Instrument for Tokamak Magnetic Field Measurement                                                                                                                                         | 僅海報<br>Poster   | 葷 Regular            |

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| 13 | 黃義升 | Yi-Sheng Huang | 物理學系 Department of Physics |  | Machine-Learning investigation of Gravitational Wave SkyLocator with the application of Autoregressive Rational Quadratic-Spline flow | 僅海報<br>Poster | 葷 Regular      |
| 14 | 柯智瀚 | Zhi-Han Ke     | 物理學系 Department of Physics |  | Development of the flux loop in a Tokamak                                                                                             | 僅海報<br>Poster | 葷 Regular      |
| 15 | 何秉晄 | Bing-Huang He  | 工學院(能源學程)                  |  | Development of pneumatic-controlled relay system for Formosa Integrated Research Spherical Tokamak (FIRST)                            | 僅海報<br>Poster | 不用餐<br>No Need |

## 第一組 16-27

| 海報<br>編號 | 投稿者姓名 | English Name                  | 系所<br>Department/ Institute                             | 論文題目(中文)<br>Research Title (Chinese)           | 論文題目(英文)<br>Research Title (English)                                                                                                                       | 展示方式<br>Display | 11/06中餐<br>Lunch Box |
|----------|-------|-------------------------------|---------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|
| 16       |       | Jean Edward Nelosn<br>Anariba | 太空與電漿科學研究所<br>Institute of Space and<br>Plasma Sciences |                                                | Development of the Current-Driver Module for the<br>Toroidal-Field Coils of the mini-Tokamak                                                               | 僅海報<br>Poster   | 葷 Regular            |
| 17       | 畢永葳   | Yung-Wei Pi                   | 太空與電漿科學研究所<br>Institute of Space and<br>Plasma Sciences |                                                | Design of the central solenoid current profile for the mini-<br>Tokamak considering the effects of eddy currents in the<br>vacuum-vessel wall              | 僅海報<br>Poster   | 葷 Regular            |
| 18       | 陳彥宏   | Yan-Hong Chen                 | 地球科學系 Department of<br>Earth Sciences                   | 利用 EEN 與 DS 技術提升 MC-ICP-MS<br>穩定鋇同位素測定的精確度與準確度 | Enhancing the Accuracy and Precision of Stable Sr Isotopic<br>Measurements by MC-ICP-MS Using EEN and DS<br>Techniques                                     | 僅海報<br>Poster   | 葷 Regular            |
| 19       | 艾飛宇   | Aitor Garcia-Ruiz<br>Fuentes  | 物理學系 Department of<br>Physics                           | 扭曲雙層石墨烯中的準晶-莫爾圖樣跨<br>越現象                       | Quasicrystal-moire crossover in twisted bilayer graphene                                                                                                   | 僅海報<br>Poster   | 葷 Regular            |
| 20       |       | Che-Men Chu                   | 太空與電漿科學研究所<br>Institute of Space and<br>Plasma Sciences | 用於託卡馬克極向場線圈的可擴展 H 橋<br>電流驅動系統                  | A Scalable H-Bridge Current-Drive System for Tokamak<br>Poloidal Field Coils                                                                               | 僅海報<br>Poster   | 葷 Regular            |
| 21       | 古達    | Shivam Gupta                  | 太空與電漿科學研究所<br>Institute of Space and<br>Plasma Sciences |                                                | EUV Spectroscopy of Highly Charged Kr Ions in Fusion<br>Plasma: Insights from LHD Impurity Seeding and Electron-<br>Impact Studies                         | 僅海報<br>Poster   | 素<br>Vegetarian      |
| 22       |       | Anup Kumar Sahoo              | 光電科學與工程學系<br>Department of Photonics                    |                                                | Chiro-Optical Geometric Phase Planar Optics in<br>Nanomotor-Added Heliconical Spiral Structure                                                             | 僅海報<br>Poster   | 素<br>Vegetarian      |
| 23       | 黃士修   | Shih-Hsiu Huang               | 光電科學與工程學系<br>Department of Photonics                    |                                                | A Microcavity-assisted Multi-resonant Metasurface<br>Platform for Wavefront Engineering                                                                    | 僅海報<br>Poster   | 葷 Regular            |
| 24       |       | Loni Prakash<br>Chandrakant   | 地球科學系 Department of<br>Earth Sciences                   | 骨炭在共污染水系統中對銻、砷與鎘的<br>增強去除：晶格層級的機制性理解           | Enhanced Removal of Antimony, Arsenic and Cadmium by<br>Bone Char in Co-Contaminated Aqueous Systems: A<br>Lattice Level Mechanistic Understanding         | 僅海報<br>Poster   | 葷 Regular            |
| 25       | 吳澄峰   | Cheng-Feng Wu                 | 地球科學系 Department of<br>Earth Sciences                   | 臺南都會區不同地形分區下之淺層速度<br>構造與地震動特徵                  | Shallow Velocity Structures and Ground Motion<br>Characteristics across Topographic Divisions of the Tainan<br>Metropolitan Area, Taiwan                   | 僅海報<br>Poster   | 葷 Regular            |
| 26       | 柯莫    | Raj Kumar Paudel              | 物理學系 Department of<br>Physics                           |                                                | Semi-Empirical Pseudopotential Method for Low-<br>Dimensional Materials                                                                                    | 僅海報<br>Poster   | 素<br>Vegetarian      |
| 27       | 施嘉爾   | Sagar Mal Kumawat             | 物理學系 Department of<br>Physics                           |                                                | Complex magnetic properties of the double perovskite<br>Hg <sub>2</sub> MnTeO <sub>6</sub> probed by thermodynamic measurements and<br>neutron diffraction | 僅海報<br>Poster   | 素<br>Vegetarian      |

## 第二組 28-56

| 海報<br>編號 | 投稿者姓名 | English Name           | 系所<br>Department/ Institute          | 論文題目(中文)<br>Research Title (Chinese)                                       | 論文題目(英文)<br>Research Title (English)                                                                                                                                              | 展示方式 Display | 11/06中餐<br>Lunch Box |
|----------|-------|------------------------|--------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|
| 28       | 白育儒   | Yu-Ru Pai              | 數學系 Department of Mathematics        | 關於線性分數階微分方程解的一種新的表示式                                                       | A new representation about the solution of linear fractional differential equation                                                                                                | 僅海報 Poster   | 葷 Regular            |
| 29       | 林泓葦   | Hong-Wei Lin           | 化學系 Department of Chemistry          |                                                                            | Quantum-Mechanical Arrow-Pushing: Unraveling the Electron Flow in Propane ODH on V <sub>4</sub> O <sub>10</sub>                                                                   | 僅海報 Poster   | 葷 Regular            |
| 30       | 黃浩然   | Jeremiah Hao Ran Huang | 化學系 Department of Chemistry          | 離子液體陽離子尺寸對Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene 層間距與電化學行為之影響 | Synthesis of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Using Ionic Liquids with Different Cation Sizes and Investigation of Its Interlayer and Electrochemical Behavior | 僅海報 Poster   | 葷 Regular            |
| 31       | 王志崑   | Zhi-Qun Wang           | 光電科學與工程學系<br>Department of Photonics | 變形超結構之排向有序性的控制                                                             | Control of orientational orderliness of deformed superstructures                                                                                                                  | 僅海報 Poster   | 葷 Regular            |
| 32       | 鄭廷瑜   | Ting-Yu Cheng          | 光電科學與工程學系<br>Department of Photonics | 具生物活性與光響應性的金奈米複合材料・用於活性氧驅動的巨噬細胞重編程與腫瘤免疫調控                                  | Bioactive and Light-Responsive Au Nanohybrids for ROS-Driven Macrophage Reprogramming and Tumor Immunomodulation                                                                  | 僅海報 Poster   | 葷 Regular            |
| 33       | 盧冠廷   | Guan-Ting Lu           | 光電科學與工程學系<br>Department of Photonics | 利用光注入鎖定之半導體雷射進行 QAM OFDM光訊號放大                                              | Optical amplification of QAM OFDM signal using optically injection-locked semiconductor lasers                                                                                    | 僅海報 Poster   | 葷 Regular            |
| 34       | 杜氏懷   | Do Thi Hoai            | 光電科學與工程學系<br>Department of Photonics | 闡明 CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> 鈣鈦礦發光二極體中的陰極降解現象      | Clarify the cathode degradation in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite light-emitting diodes                                                             | 僅海報 Poster   | 葷 Regular            |
| 35       | 林毓麟   | Yu-Lin Lin             | 光電科學與工程學系<br>Department of Photonics | 並四苯有機發光二極體中亞能隙發光現象                                                         | Sub-band gap emission in tetracene-based organic light-emitting diodes                                                                                                            | 僅海報 Poster   | 素 Vegetarian         |
| 36       | 張鼎鈞   | Ting-Chun Chang        | 光電科學與工程學系<br>Department of Photonics | 透過可控制表面形貌之 p-NiO/n-WO <sub>3</sub> 奈米結構以提升一氧化氮氣體感測性能之研究                    | Enhanced nitric oxide gas sensing performance using p-NiO/n-WO <sub>3</sub> nanostructure with controllable surface morphology                                                    | 僅海報 Poster   | 葷 Regular            |
| 37       | 張永昇   | Wing-Sing Cheung       | 光電科學與工程學系<br>Department of Photonics |                                                                            | Structural Design and Modal Coupling of ZnO Surface Plasmon Polariton Lasers                                                                                                      | 僅海報 Poster   | 葷 Regular            |
| 38       | 邱子育   | Tzu-Yu Chiu            | 光電科學與工程學系<br>Department of Photonics | 利用黏性奈米疏水基板與表面增強拉曼散射發展聚苯乙烯微塑膠檢測技術                                           | Detection of Polystyrene Microplastics via Surface-Enhanced Raman Scattering on Sticky Hydrophobic Nanopillar Substrates                                                          | 僅海報 Poster   | 葷 Regular            |
| 39       | 洪煜恆   | Yu-Heng Hung           | 光電科學與工程學系<br>Department of Photonics |                                                                            | Plasmonic Metasurface Spectrometer Fabricated by Nano-Transfer Printing with Deep Learning-Based Spectral Reconstruction                                                          | 僅海報 Poster   | 葷 Regular            |

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| 40 |     | John Fungo     | 地球科學系 Department of Earth Sciences |                                                           | Maximum horizontal stress rotations along the Philippine archipelago                                       | 僅海報 Poster                    | 葷 Regular    |
| 41 | 郭賢立 | Hsien-Li Kuo   | 地球科學系 Department of Earth Sciences | 遙測與三維建模於邊坡變形監測分析：以光華崩塌為例                                  | Monitoring and Analysis of Slope Deformation Using Remote Sensing and 3-D Modeling: The Guanghua Landslide | 僅海報 Poster                    | 葷 Regular    |
| 42 | 許嘉珍 | Chia-Chen Hsu  | 地球科學系 Department of Earth Sciences | 關子嶺溫泉區之潛在滑移面評估及其潛移機制探討                                    | Investigate Creep Mechanisms and Potential Slope Failures in Guanziling Hot Spring Area                    | 僅海報 Poster                    | 葷 Regular    |
| 43 | 連明瑜 | Ming-Yu Lien   | 地球科學系 Department of Earth Sciences | 彭佳嶼大氣懸浮微粒中水溶性有害元素之探討                                      | Tracing sources variation of water-soluble hazardous elements collected from Peng-Chia-Yu islet            | 僅海報 Poster                    | 葷 Regular    |
| 44 |     | Muhammad Yunus | 地球科學系 Department of Earth Sciences |                                                           | Uncovering Spatiotemporal Patterns of Subsidence Recovery: Evidence from Jakarta, Indonesia                | 海報與實品展示<br>Poster and Exhibit | 素 Vegetarian |
| 45 | 陳柏材 | Bo-Cai Chen    | 物理學系 Department of Physics         | 自由支撐 $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ 膜之厚度依賴鐵電性 | Thickness-Dependent Ferroelectricity in Freestanding $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ Membranes  | 僅海報 Poster                    | 葷 Regular    |
| 46 | 許哲彬 | Che-Pin Hsu    | 物理學系 Department of Physics         | 閘極控制石墨烯超晶格的彈道疏運                                           | Ballistic transport across gate-controlled graphene superlattice                                           | 僅海報 Poster                    | 葷 Regular    |
| 47 | 林庭永 | Ting-Yong Lim  | 物理學系 Department of Physics         |                                                           | Giant Nonlinear Hall Effect Induced Ultrahigh Rectification in a Weyl Semiconductor                        | 僅海報 Poster                    | 葷 Regular    |
| 48 | 許心瑜 | Hsin-Yu Hsu    | 物理學系 Department of Physics         |                                                           | Trading symmetry for Hilbert-space dimension in Bell-inequality violation                                  | 僅海報 Poster                    | 葷 Regular    |
| 49 | 陳楷翔 | Kai-Siang Chen | 物理學系 Department of Physics         |                                                           | Nonlocality of Quantum States Can be Transitive                                                            | 僅海報 Poster                    | 葷 Regular    |
| 50 | 吳侑哲 | Yu-Che Wu      | 物理學系 Department of Physics         | 利用深度學習和遷移學習實現數位雷射的逆向相位預測                                  | Inverse-Designed Phase Prediction in Digital Lasers Using Deep Learning and Transfer Learning              | 僅海報 Poster                    | 葷 Regular    |
| 51 | 吳宣誼 | Hsuan-I Wu     | 物理學系 Department of Physics         |                                                           | Type-II Weyl Fermions in Chiral $\text{NbSi}_2$                                                            | 僅海報 Poster                    | 葷 Regular    |
| 52 | 姚岳廷 | Yueh-Ting Yao  | 物理學系 Department of Physics         |                                                           | Orbital Topology Induced Orbital Hall Effect in Two-dimensional Insulators                                 | 僅海報 Poster                    | 葷 Regular    |
| 53 | 李穎哲 | Ying-Je Lee    | 物理學系 Department of Physics         | 幾何調控碳奈米卷軸的拓樸纏繞數及磁電導                                       | Geometry-Controlled Topological Winding Number and Magnetoconductance in Carbon Nanoscroll                 | 僅海報 Poster                    | 葷 Regular    |

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| 54 | 趙世翔 | Shih-Hsiang Chao | 物理學系 Department of Physics | 圖像化超導量子位元的量子記憶體特性                               | Geometric Characterization of Quantum Memory in Superconducting Qubits                                                                         | 僅海報 Poster | 葦 Regular |
| 55 | 鄭博元 | Po-Yuan Cheng    | 物理學系 Department of Physics | 雙能隙超導體V <sub>2</sub> Ga <sub>5</sub> 的物理特性及電子結構 | Physical properties and electronic structure of the two-gap superconductor V <sub>2</sub> Ga <sub>5</sub>                                      | 僅海報 Poster | 葦 Regular |
| 56 | 黃子泰 | Tzu-Tai Huang    | 物理學系 Department of Physics |                                                 | Magnetic Proximity Effects Induced by Fermi Level Pinning in Sb <sub>2</sub> Te <sub>3</sub> /Cr <sub>2</sub> Te <sub>3</sub> Heterostructures | 僅海報 Poster | 葦 Regular |

第三組 57-81

| 海報<br>編號 | 投稿者姓名 | English Name     | 系所<br>Department/ Institute                          | 論文題目(中文)<br>Research Title (Chinese)                 | 論文題目(英文)<br>Research Title (English)                                                                                                                                  | 展示方式<br>Display | 11/06中餐<br>Lunch Box |
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| 57       | 王睿彬   | Ruei-Bin Wang    | 化學系 Department of Chemistry                          |                                                      | Green Synthesis of Moisture- and Air-Stable Cesium Lead Halide Perovskite Nanocrystals Confined within Nanoporous Silica                                              | 僅海報<br>Poster   | 葷 Regular            |
| 58       | 黃聖明   | Sheng-Ming Huang | 化學系 Department of Chemistry                          | m-DFDNB 介導的巰基與胺基大環化反應用於單環與多環胜肽的合成                    | m-DFDNB-Mediated Thiol and Amine Macrocyclization Enabling Mono- and Multicyclic Peptide Formation                                                                    | 僅海報<br>Poster   | 葷 Regular            |
| 59       | 紀佳余   | Jia-Yu Ji        | 化學系 Department of Chemistry                          | 金屬板還原法製備硼摻雜石墨烯 / 石墨烯複合薄膜，用於全碳基超級電容器之應用。              | Metal Plate Reduction Procedure of Boron-Doped Graphene/Graphene Buckypaper for All-Carbon Supercapacitor Application                                                 | 僅海報<br>Poster   | 不用餐<br>No Need       |
| 60       | 吳柏軒   | Po-Hsuan Wu      | 化學系 Department of Chemistry                          |                                                      | Converting agricultural and industrial waste into hard carbon via self-deoxygenating activation method and its application in sodium-ion batteries                    | 僅海報<br>Poster   | 葷 Regular            |
| 61       | 江亭誼   | Ting-Yi Chiang   | 化學系 Department of Chemistry                          | 透過原生質譜表徵人類粒線體單股DNA結合蛋白                               | Characterization of Human Mitochondrial Single-Stranded DNA-Binding Protein Using Native Mass Spectrometry                                                            | 僅海報<br>Poster   | 葷 Regular            |
| 62       | 李君容   | Jun-Rong Li      | 化學系 Department of Chemistry                          | 中孔二氧化矽孔徑對矽酸鈣晶相及材料硬度的影響                               | Effect of Pore Size of Mesoporous Silicas on Crystalline Phases of Calcium Silicate and Material Hardness                                                             | 僅海報<br>Poster   | 葷 Regular            |
| 63       | 陳裕婷   | Yu-Ting Chen     | 化學系 Department of Chemistry                          | 金與鈀奈米催化劑中尺寸-形貌耦合的機制與電子起源                             | Mechanistic and Electronic Origins of Size-Shape Coupling in Au and Pd Nanocatalysts                                                                                  | 僅海報<br>Poster   | 葷 Regular            |
| 64       | 張玉璇   | Yu-Hsuan Chang   | 化學系 Department of Chemistry                          |                                                      | High-Yield One-Pot Synthesis of Phosphorus-Grafted MXene: Unveiling Phosphate-MXene Interactions through In Situ Structural Monitoring for Energy Storage Enhancement | 僅海報<br>Poster   | 葷 Regular            |
| 65       | 林采蓁   | Tsai-Jen Lin     | 化學系 Department of Chemistry                          |                                                      | Metal-N <sub>4</sub> -Functionalized Graphene as Highly Active Catalysts for C-N Bond Formation in Electrochemical Urea Synthesis                                     | 僅海報<br>Poster   | 不用餐<br>No Need       |
| 66       | 黃昱翰   | Yu-Han Huang     | 太空與電漿科學研究所<br>Institute of Space and Plasma Sciences |                                                      | Development and Simulation of 3D foam target in Laser-driven proton acceleration Applications                                                                         | 僅海報<br>Poster   | 葷 Regular            |
| 67       | 黃竑繁   | Hung-Chi Huang   | 光電科學與工程學系<br>Department of Photonics                 |                                                      | All-Optical Omnidirectionally Bendable Polarization-Responsive Cholesteric Liquid Crystal Elastomers                                                                  | 僅海報<br>Poster   | 葷 Regular            |
| 68       | 李英齊   | Ying-Chi Li      | 光電科學與工程學系<br>Department of Photonics                 | 以奈米壓印製成之 CsPbBr <sub>3</sub> 分佈式回饋雷射，具超低閾值與高偏振單模綠光雷射 | Nanoimprinted CsPbBr <sub>3</sub> Distributed-Feedback Lasers with Ultralow Threshold and Highly Polarized Single-Mode Green Lasing                                   | 僅海報<br>Poster   | 葷 Regular            |

|    |     |                  |                                      |                                                                              |                                                                                                                                             |               |           |
|----|-----|------------------|--------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| 69 | 洪鈺華 | Yu-Hua Hong      | 光電科學與工程學系<br>Department of Photonics |                                                                              | Photoresponse and Optical Synaptic Behaviors of Oranic Heterojunction Thin-Film Transistors with Bio-Dielectrics                            | 僅海報<br>Poster | 葦 Regular |
| 70 | 黃清颺 | Ching-Yang Huang | 光電科學與工程學系<br>Department of Photonics |                                                                              | Edge Mode Propagation in complementary dual-layer Metallic Topological Waveguide with different interfaces and defects by FDTD method       | 僅海報<br>Poster | 葦 Regular |
| 71 | 陳禹安 | Yu-An Chen       | 光電科學與工程學系<br>Department of Photonics | 基於氣致變色膜和光記憶之具氫氣檢測能力的人工感覺突觸                                                   | H2-detectable artificial sensory synapse based on gasochromic film and photomemory                                                          | 僅海報<br>Poster | 葦 Regular |
| 72 | 何隆貴 | Long-Gui He      | 光電科學與工程學系<br>Department of Photonics |                                                                              | Effect of Time Delay Signature on Reservoir Computing using Optical Feedback Semiconductor Lasers                                           | 僅海報<br>Poster | 葦 Regular |
| 73 | 呂冠杰 | Guan-Jie Lu      | 光電科學與工程學系<br>Department of Photonics | 表面工程對Ga <sub>2</sub> O <sub>3</sub> 奈米柱基EGFET的pH感測性能提升之特性研究                  | Investigation of Surface Engineering for enhancing pH Sensing Performance of Ga <sub>2</sub> O <sub>3</sub> Nanorod-based EGFET             | 僅海報<br>Poster | 葦 Regular |
| 74 | 詹翔竣 | Hsiang-Chun Chan | 光電科學與工程學系<br>Department of Photonics | 聚(3-己基噻吩)有機薄膜電晶體應用於無標記的細菌檢測                                                  | Application of Poly(3-hexylthiophene) Organic Thin-Film Transistors for Label-Free Bacteria Detection                                       | 僅海報<br>Poster | 葦 Regular |
| 75 | 陳宥均 | You-Jiun Chen    | 地球科學系 Department of Earth Sciences   | 臺灣東部海岸山脈烏石鼻安山岩體多樣性沸石生成之礦物學研究                                                 | Diversified zeolite mineralization in the Wushipi andesitic rocks, Coastal Range, eastern Taiwan                                            | 僅海報<br>Poster | 葦 Regular |
| 76 | 王守屏 | Shou-Ping Wang   | 地球科學系 Department of Earth Sciences   | 藉由環境地動訊號分析大規模崩塌潛勢邊坡穩定性                                                       | Analyzing the Stability of Large-Scale Landslide-Prone Slopes Using Ambient Seismic Noise                                                   | 僅海報<br>Poster | 葦 Regular |
| 77 | 林佩蓁 | Pei-Chen Lin     | 地球科學系 Department of Earth Sciences   | 臺灣海峽中新世玄武岩岩漿作用：分布範圍與型態特徵之探討                                                  | Miocene Basaltic Magmatism in Taiwan Strait: Spatial Distribution and Morphological Characteristics.                                        | 僅海報<br>Poster | 葦 Regular |
| 78 | 周盛燿 | Sheng-Tung Chou  | 地球科學系 Department of Earth Sciences   | 發展高精度多接收器感應耦合電漿質譜儀矽同位素分析技術解析降雨事件對關鍵帶水文的影響                                    | High-precision silicon isotope analysis by multi-collector ICP-MS to constrain rainfall-induced hydrological processes in the critical zone | 僅海報<br>Poster | 葦 Regular |
| 79 | 楊子樂 | Tzu-Le Yang      | 物理學系 Department of Physics           | 用於結構光生成的數位雷射相位優化之混合模擬退火法                                                     | A Hybrid Simulated Annealing Approach for Loaded Phase Optimization in Digital Lasers for Structured Light Generation                       | 僅海報<br>Poster | 葦 Regular |
| 80 | 林玥彤 | Yueh-Tung Lin    | 物理學系 Department of Physics           | 形變二硒化銮之非互易性傳輸                                                                | Nonreciprocal transport in strained niobium diselenide                                                                                      | 僅海報<br>Poster | 葦 Regular |
| 81 | 劉采靈 | Tsai-Ling Liu    | 物理學系 Department of Physics           | 幾何受挫石榴石 Mn <sub>3</sub> V <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> 的磁性結構 | Magnetic structure of a geometrically frustrated garnet Mn <sub>3</sub> V <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub>                      | 僅海報<br>Poster | 葦 Regular |

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| 海報<br>編號 | 投稿者姓名 | English Name     | 系所<br>Department/ Institute                          | 論文題目(中文)<br>Research Title (Chinese)                                               | 論文題目(英文)<br>Research Title (English)                                                                                                                                                         | 展示方式 Display                  | 11/06中餐<br>Lunch Box |
|----------|-------|------------------|------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------|
| 82       | 盧聿豐   | Yu-Feng Lu       | 地球科學系 Department of Earth Sciences                   | 利用機器學習方法評估控制台灣西南部與濁水溪流域化學風化時空變化的主要因素                                               | Assessing the main factors influencing the spatiotemporal variations of chemical weathering in the southwestern region of Taiwan and the Zhuoshui River basin using machine learning methods | 僅海報 Poster                    | 葷 Regular            |
| 83       | 蕭紫彤   | Tzu-Tung Hsiao   | 地球科學系 Department of Earth Sciences                   | 高屏峽谷沉降顆粒中化學元素的來源與垂直通量變化（：礦物組成及化學分析的整合比較）                                           | Sources and vertical elemental fluxes of sinking particles collected in the Gaoping Canyon                                                                                                   | 僅海報 Poster                    | 葷 Regular            |
| 84       | 葉冠甫   | Kuan-Fu Yeh      | 地球科學系 Department of Earth Sciences                   | 以地物探勘資料建置初始地下三維溫度模型—以中崙與關子嶺地區為例                                                    | Construction of an Initial 3D Geothermal Model Using the Geophysical Data: A Case Study of the Kuantzing and Chunglun Areas                                                                  | 僅海報 Poster                    | 葷 Regular            |
| 85       | 辛翔鈞   | Xiang-Jun Xin    | 物理學系 Department of Physics                           | 衍射仿真的角譜算法在混疊判据的优化                                                                  | Optimization of the Aliasing Criterion for the Angular Spectrum Method in Diffraction Simulation                                                                                             | 海報與實品展示<br>Poster and Exhibit | 葷 Regular            |
| 86       | 黃詠翔   | Yung-Hsiang Huan | 物理學系 Department of Physics                           | 基於混合CNN-SPGD方法的像差雷射光束模態分解                                                          | Hybrid CNN-SPGD Method for Modal Decomposition of Aberrated Laser Beams                                                                                                                      | 僅海報 Poster                    | 葷 Regular            |
| 87       | 張善輔   | Shan-Fu Chang    | 物理學系 Department of Physics                           | 單晶塊材PtSn <sub>2</sub> 之電子及自旋特性探討                                                   | Novel Electronic and Spin Properties of PtSn <sub>2</sub> Single Crystals Revealed by ARPES                                                                                                  | 僅海報 Poster                    | 葷 Regular            |
| 88       | 陳昱廷   | Yu-Ting Chen     | 數學系 Department of Mathematics                        | 以神經網路為基礎之量子啟發式退火於組合最佳化問題之研究                                                        | Neural Network-Based Quantum-Inspired Annealing for Combinatorial Optimization Problems                                                                                                      | 僅海報 Poster                    | 葷 Regular            |
| 89       | 陳正典   | Cheng-Tien Chen  | 太空與電漿科學研究所<br>Institute of Space and Plasma Sciences | 福衛八號(FS-8C)科學酬載研製 - 多重粒子分析儀之類比前端電路設計                                               | Analog Front-End Circuit for Multiple Particle Analyzer (FS-8C)                                                                                                                              | 僅海報 Poster                    | 葷 Regular            |
| 90       | 王柏翰   | Po-Han Wang      | 光電科學與工程學系<br>Department of Photonics                 | 二維過渡金屬硫族化物與微型表面電漿結構之耦合                                                             | Coupling Between Two-Dimensional Transition Metal Dichalcogenides and Microscale Plasmonic Structures                                                                                        | 僅海報 Poster                    | 葷 Regular            |
| 91       | 呂韋頡   | Wei-Xei Lu       | 光電科學與工程學系<br>Department of Photonics                 |                                                                                    | Dispersion Analysis of TE <sub>101</sub> Resonant Mode in Rectangular PEC Bounded Dielectric Waveguide with Open End                                                                         | 僅海報 Poster                    | 葷 Regular            |
| 92       | 楊哲綸   | Che-Lun Yang     | 光電科學與工程學系<br>Department of Photonics                 |                                                                                    | Photoactuable Blue Phase Elastomer Films with Abnormal Bending behaviors                                                                                                                     | 僅海報 Poster                    | 葷 Regular            |
| 93       | 林廷祐   | Ting-You Lin     | 光電科學與工程學系<br>Department of Photonics                 | 以溶劑工程調控之空間受限生長法製備高相純度 (PEA) <sub>2</sub> MAPb <sub>2</sub> I <sub>7</sub> 準二維鈣鈦礦薄膜 | Solvent-Mediated Space-Confined Growth for Scalable Growth of Phase-Pure (PEA) <sub>2</sub> MAPb <sub>2</sub> I <sub>7</sub> Quasi-2D Perovskite Films                                       | 僅海報 Poster                    | 葷 Regular            |

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|-----|-----|-----------------|--------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|
| 94  | 洪哲遠 | Che-Yuan Hung   | 光電科學與工程學系<br>Department of Photonics | 以溶熱法製備氧化銦奈米結構之二氧化氮氣體感測器特性研究                | Investigated properties of NO <sub>2</sub> gas sensors with nanostructured In <sub>2</sub> O <sub>3</sub> grown using solvothermal method                   | 僅海報 Poster | 葦 Regular      |
| 95  | 陳冠廷 | Guan-Ting Chen  | 光電科學與工程學系<br>Department of Photonics | 奈米壓印技術作為實現背接觸鈣鈦礦太陽電池亞微米級準指叉電極之製程途徑         | Nanoimprint Lithography as a Pathway toward Submicron-Scale Quasi-Interdigitated Electrodes for Back-Contact Perovskite Solar Cells                         | 僅海報 Poster | 葦 Regular      |
| 96  | 吳啟璋 | Ci-Wei Wu       | 光電科學與工程學系<br>Department of Photonics | ZTO/PBTTT-C <sub>14</sub> 雙極性電晶體的電特性與光響應行為 | Electrical characteristics and Photoresponse Behaviors of ZTO/PBTTT-C <sub>14</sub> Ambipolar Transistors                                                   | 僅海報 Poster | 葦 Regular      |
| 97  | 吳思璇 | Ssu-Hsuan Wu    | 光電科學與工程學系<br>Department of Photonics |                                            | Chiral Photomemory based on Chirality Transfer/Chiral Molecule Heterojunction                                                                               | 僅海報 Poster | 葦 Regular      |
| 98  | 陳虹菱 | Hong-Ling Chen  | 化學系 Department of Chemistry          | MALDI-TOF質譜分析洗腎廢液於評估血液透析效率與病患監測之臨床應用研究     | MALDI-TOF Mass Spectrometry-Based Profiling of Spent Dialysate: Implications for Hemodialysis Efficiency and Clinical Monitoring                            | 僅海報 Poster | 葦 Regular      |
| 99  | 黃以青 | Yi-Ching Huang  | 化學系 Department of Chemistry          |                                            | Synthesis of Mesoporous Silicas with Tunable Surface Property and Pore Size for Removal of Colored Impurities in Recycled Bis(2-hydroxyethyl) Terephthalate | 僅海報 Poster | 葦 Regular      |
| 100 | 陳世昌 | Shih-Chang Chen | 化學系 Department of Chemistry          |                                            | Deaminative Azidation via Triazene Intermediates Generated from Amines Using a Novel Diazonium Salt Reagent                                                 | 僅海報 Poster | 不用餐<br>No Need |
| 101 | 楊宇綸 | Yu-Lun Yang     | 化學系 Department of Chemistry          | 蚵殼灰泥：實現廢棄物再利用與結合面塗及3D列印技術之研究               | A Study on Oyster Shell-Based Lime Plaster: Realizing Waste Reutilization and Integration with Surface Coating and 3D Printing Technologies                 | 僅海報 Poster | 葦 Regular      |
| 102 | 黃柏衡 | Bo-Heng Huang   | 化學系 Department of Chemistry          | 以階段式缺陷工程實現 MXene 中鉑附著位點的策略性設計              | Rational Design of Platinum Anchoring Sites via Stepwise Defect Engineering in MXene                                                                        | 僅海報 Poster | 葦 Regular      |
| 103 | 張君睿 | Chun-Jui Chang  | 化學系 Department of Chemistry          | 單磺酸化組氨酸雙功能標籤輔助的 N 端標籤化胰島素全合成               | Monosulfonated Histidine Bifunctional Tag-Aided Chemical Synthesis of N-terminally Tagged insulin                                                           | 僅海報 Poster | 葦 Regular      |
| 104 | 胡軒慈 | Xuan-Ci Hu      | 化學系 Department of Chemistry          | 以矽酸鹽剝蝕法合成之金屬氫氧化物誘導形貌可調管狀銅頁矽酸鹽              | Metal Hydroxide-Induced Tubular Copper Phyllosilicate with Tunable Morphology via Silicate Exfoliation                                                      | 僅海報 Poster | 葦 Regular      |
| 105 | 賴姿綺 | Tzu-Chi Lai     | 化學系 Department of Chemistry          |                                            | Effectively control cyanamide group in potassium poly(heptazine imide) to enhance electron storage ability                                                  | 僅海報 Poster | 葦 Regular      |
| 106 | 葉仲謀 | Choung-Mou Yeh  | 化學系 Department of Chemistry          |                                            | Low-Coordinated Bimetallic Complexes: Synthesis and Reactivity                                                                                              | 僅海報 Poster | 葦 Regular      |

第五組 107-130

| 海報<br>編號 | 投稿者姓名 | English Name   | 系所<br>Department/ Institute                          | 論文題目(中文)<br>Research Title (Chinese)                                  | 論文題目(英文)<br>Research Title (English)                                                                                                                                                                                        | 展示方式<br>Display | 11/06中餐<br>Lunch Box |
|----------|-------|----------------|------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|
| 107      | 楊佳蓉   | Chia-Jung Yang | 化學系 Department of Chemistry                          |                                                                       | Quantum-Mechanical Arrow-Pushing: Unraveling the Electron Flow in Propane ODH on V <sub>4</sub> O <sub>10</sub>                                                                                                             | 僅海報 Poster      | 葷 Regular            |
| 108      | 謝侑峻   | You-Jun Hsieh  | 化學系 Department of Chemistry                          |                                                                       | Development of a Variable-Temperature Electrospray Ion Source Based on Peltier Element for Thermodynamic Stability of Protein Folding Transition                                                                            | 僅海報 Poster      | 葷 Regular            |
| 109      | 蔡昀軒   | Yun-Hsuan Tsai | 化學系 Department of Chemistry                          |                                                                       | Mechanistic Study on the Synthesis of Nickel Catalysts with Particularly Low-Temperature Reducibility under Hydrogen Atmosphere                                                                                             | 僅海報 Poster      | 葷 Regular            |
| 110      | 黃俐潔   | Li-Chieh Huang | 化學系 Department of Chemistry                          |                                                                       | Synthesis of New Carbazole-Based Hole-Transport Molecules with Anchoring Groups for Organic Perovskite Solar Cell                                                                                                           | 僅海報 Poster      | 葷 Regular            |
| 111      | 林玉菁   | Yu-Ching Lin   | 化學系 Department of Chemistry                          |                                                                       | Synthesis of Silica Hollow Nano-Spheres and TiO <sub>2</sub> Loading for Enhanced Visible-Light Photocatalysis                                                                                                              | 僅海報 Poster      | 葷 Regular            |
| 112      | 陳致嘉   | Chih-Chia Chen | 化學系 Department of Chemistry                          |                                                                       | Synthesis of cuboidal [Fe <sub>3</sub> S <sub>4</sub> ] and [Fe <sub>3</sub> Se <sub>4</sub> ] cluster from linear two-coordinate iron complexes                                                                            | 僅海報 Poster      | 葷 Regular            |
| 113      | 黃治樟   | Daniel Ng      | 化學系 Department of Chemistry                          |                                                                       | Nitrogen-Doped Hierarchical Porous Carbon from Agricultural Waste via CO <sub>2</sub> -Assisted High-Temperature Physical Activation for CO <sub>2</sub> Capture, Dual-Dye Removal, and Water Vapor Adsorption Applications | 僅海報 Poster      | 葷 Regular            |
| 114      | 陳盛耀   | Sheng-Yao Chen | 化學系 Department of Chemistry                          |                                                                       | A Versatile Heteroatom Nucleophile Hub Enabling Divergent Thiol and Amine Bioconjugate Synthesis                                                                                                                            | 僅海報 Poster      | 葷 Regular            |
| 115      | 賴雋諺   | Chun-Yen Lai   | 化學系 Department of Chemistry                          |                                                                       | Decoupling Shape Effects from Facet Contributions in Nanometal Catalysis                                                                                                                                                    | 僅海報 Poster      | 葷 Regular            |
| 116      | 李泊叡   | Po-Jui Li      | 太空與電漿科學研究所<br>Institute of Space and Plasma Sciences |                                                                       | Theory and PIC Simulations of Sheath Dynamics and Non-Ohmic Plasma Heating in Capacitively Coupled Plasmas                                                                                                                  | 僅海報 Poster      | 素 Vegetarian         |
| 117      | 陳秉璋   | Bing-Wei Chen  | 光電科學與工程學系<br>Department of Photonics                 | 以氣相磊晶法在 SrTiO <sub>3</sub> 上成長之高品質 CsPbBr <sub>3</sub> 磊晶薄膜，展現優異的雷射特性 | High-Quality CsPbBr <sub>3</sub> Epitaxial Films Grown on SrTiO <sub>3</sub> by Vapor Phase Epitaxy Exhibiting Superior Laser Characteristics                                                                               | 僅海報 Poster      | 葷 Regular            |
| 118      | 蔡宗瀚   | Zong-Han Cai   | 光電科學與工程學系<br>Department of Photonics                 |                                                                       | Photo-steering of flexible lasers based on dye-infiltrated blue phase photonic superstructures                                                                                                                              | 僅海報 Poster      | 葷 Regular            |

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| 119 | 郭雲程 | Yun-Cheng Guo  | 光電科學與工程學系<br>Department of Photonics | 軟性側閘極有機電化學電晶體用於反向器和多巴胺感測之應用 | Application of Flexible Side-Gate Organic Electrochemical Transistor for Inverter and Dopamine Sensing                                                   | 僅海報 Poster | 葦 Regular |
| 120 | 羅紫瑜 | Tzu-Yu Lo      | 光電科學與工程學系<br>Department of Photonics | 利用半導體雷射產生用於隨機亂數生成的高熵混沌      | High-entropy chaos in semiconductor lasers with mutual injection for certified physical random number generation                                         | 僅海報 Poster | 葦 Regular |
| 121 | 楊重祐 | Chung-Yu Yang  | 光電科學與工程學系<br>Department of Photonics |                             | Resonant Frequency Analysis of Slot Antenna Fed by Quantum Spin Hall Photonic Topological Waveguides Using FDTD Method                                   | 僅海報 Poster | 葦 Regular |
| 122 | 葉姿岑 | Tzu-Tsen Yeh   | 光電科學與工程學系<br>Department of Photonics |                             | Solvent Effects on Microstructure-Dependent Electrical and Optical Neuromorphic Behaviors of Organic Diketopyrrolopyrrole-Based Synaptic Transistors     | 僅海報 Poster | 葦 Regular |
| 123 | 林敏喆 | Min-Che Lin    | 光電科學與工程學系<br>Department of Photonics | 基於分子馬達的藍相液晶中，晶體區域的光致膨脹      | Photo-induced expansion of crystal domain in molecular-motor-based blue phase liquid crystals                                                            | 僅海報 Poster | 葦 Regular |
| 124 | 張睿  | Jui Chang      | 地球科學系 Department of Earth Sciences   | 以微地動分析玉里斷層破裂成因及構造探討         | Investigation of the Causes of Yuli Fault Surface Rupture and Structural Characteristics Using Microtremor Analysis                                      | 僅海報 Poster | 葦 Regular |
| 125 | 施柏豪 | Bo-Hao Shih    | 地球科學系 Department of Earth Sciences   | 末次冰期後彰化外海海域層序地層:高解析度反射震測為例  | Sequence Stratigraphy in the Offshore Changhua since the Last Glacial Maximum: A High-Resolution Seismic Reflection Study                                | 僅海報 Poster | 葦 Regular |
| 126 | 曾秉昱 | Bing-Yu Zeng   | 地球科學系 Department of Earth Sciences   | 海水中溶解態微量金屬及稀土元素於呂宋海峽區域的空間分佈 | Spatial distribution of dissolved trace elements in the board Luzon strait region                                                                        | 僅海報 Poster | 葦 Regular |
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