# 第1組

| - 年1組 |                              |                  |  |  |                 |               |
|-------|------------------------------|------------------|--|--|-----------------|---------------|
| 海報編號  | 投稿者姓名                        | 系所<br>Department | 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 | 11/07<br>中午用餐 |
| 1     | 康文豪                          | 物理學系             |  | Transverse Magnetic Focusing in Proximitized Graphene  | 僅海報 Poster      | 素 Vegetarian  |
| 2     | 蕭妤庭                          | 物理學系             |  | Landau level mixing in moderately disordered graphene junctions  | 僅海報 Poster      | 葷 Regular     |
| 3     | 梁修瑋                          | 化學系              | 鈷鐵普魯士藍奈米框架粒子<br>應用於糖尿病傷口癒合                 | CFPB Nanoframe Applied in Diabetic Wound Healing   | 僅海報 Poster      | 素 Vegetarian  |
| 4     | 施雅方                          | 化學系              |  | Efficient Designs and Syntheses of Potent Anti-Cancer Indolocarbazole Drugs  | 僅海報 Poster      | 葷 Regular     |
| 5     | John<br>Emmanuel S.<br>Fungo | 地球科學系            |  | Extension observed in an offshore fault/trench intersection: a case study of the crustal stress fields of eastern Mindanao                                       | 僅海報 Poster      | 葷 Regular     |
| 6     | Muhammad<br>Yunus            | 地球科學系            |  | Conjugate Fault Mechanism and Coseismic Source Model<br>Application in 5.6 Mw Cianjur Earthquake 2022, West Java,<br>Indonesia                                   | 僅海報 Poster      | 素 Vegetarian  |
| 7     | 金育誠                          | 光電科學與工程學系        |  | Harnessing the Power of Sugar-Based Nanoparticles: A<br>Drug-Free Approach to Enhance Immune Checkpoint<br>Inhibition Against Glioblastoma and Pancreatic Cancer | 僅海報 Poster      | 葷 Regular     |
| 8     | 林毓麟                          | 光電科學與工程學系        | TADF-OLED 中透過三線態<br>極化子猝滅實現螢光猝滅            | Fluorescence quenching by triplet-polaron quenching in TADF OLEDs  | 僅海報 Poster      | 素 Vegetarian  |
| 9     | 林鈺瀧                          | 光電科學與工程學系        |  | Pulse Width Characterization of Visible Femto Second Laser<br>by SiC UV Photodiode   | 僅海報 Poster      | 葷 Regular     |
| 10    | 姚岳廷                          | 物理學系             |  | Exploring Novel Topological Materials: From Fundamental Theory to Experimental Discovery   | 僅海報 Poster      | 葷 Regular     |
| 11    | 陳德岳                          | 太空與電漿科學研究所       |  | Study of the electrothermal effect of the arc discharge in the ionization convergent-divergent nozzle of the pulsed-plasma thruster using unbalanced theta pinch | 僅海報 Poster      | 葷 Regular     |
| 12    | Jean Nelson                  | 太空與電漿科學研究所       |  | Mini Tokamak for Diagnostic and Coil-Driver Testing  | 僅海報 Poster      | 葷 Regular     |
| 13    | 劉哲宇                          | 太空與電漿科學研究所       | Studies of the criteria of exploding a rod | Studies of the criteria of exploding a rod   | 僅海報 Poster      | 葷 Regular     |
| 14    | 郭柏辰                          | 物理學系             | 基於 Julia 程式語言建構有效率計算開放量子系統的階層<br>運動方程      | An efficient Julia framework for hierarchical equations of motion in open quantum systems  | 僅海報 Poster      | 素 Vegetarian  |
| 15    | 林哲民                          | 物理學系             |  | Giant Self Spin-Valve Effect in the Kagome Helimagnet  | 僅海報 Poster      | 素 Vegetarian  |

| 16 | 吳澄峰                         | 地球科學系     | 探討結構物在不同作用力下<br>之動態反應   | Investigation of the Dynamic Responses of Structure under Different Forces   | 僅海報 Poster | 葷 Regular    |
|----|-----------------------------|-----------|-------------------------|--|------------|--------------|
| 17 | Loni Prakash<br>Chandrakant | 地球科學系     |                         | Enhanced Remediation of Cadmium, Antimony and Arsenic<br>by Bone Char and Application to Co-contaminated Aqueous<br>Systems: A Mechanistic Understanding | 僅海報 Poster | 素 Vegetarian |
| 18 | 吳瑋哲                         | 地球科學系     | 1 備 喀川州 剱 岛 震 浪 쳪 性 型 活 | Seismic Source Characteristics of the Geothermal Area of<br>Mt. Huangzuei, Northern Taiwan   | 僅海報 Poster | 葷 Regular    |
| 19 | 吳富喬                         | 光電科學與工程學系 |                         | Influence of microstructural features on the synaptic behavior of polymer-based thin-film transistors  | 僅海報 Poster | 葷 Regular    |

## 第2組

| 海報編號 | 投稿者姓名 | 系所<br>Department | 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 | 11/07<br>中午用餐  |
|------|-------|------------------|--|---|-----------------|----------------|
| 20   | 楊子毅   | 物理學系             |  | Crystal Growth and Superconductivity of NbSn2   | 僅海報 Poster      | 葷 Regular      |
| 21   | 劉澤騫   | 物理學系             |  | Whispering Gallery Mode Lasing from Suspended Dye-<br>Doped Polymer fiber   | 僅海報 Poster      | 葷 Regular      |
| 22   | 李怡慧   | 化學系              |  | Synthesis and Characterization of Low-Coordinate<br>Transition Metal Heterobimetallic Complexes with Iminato<br>Ligands                 | 僅海報 Poster      | 葷 Regular      |
| 23   | 邱映庭   | 化學系              | 以Q Beta病毒樣顆粒(VLPs)為例建立一個針對大分子測量的電荷檢測質譜平台 | Establishing a Charge Detection Mass Spectrometry<br>Platform for Large Molecule Measurement With Q Beta<br>Virus like particles (VLPs) | 僅海報 Poster      | 葷 Regular      |
| 24   | 謝侑峻   | 化學系              | 基於超聲波霧化技術開發微型裝置以<br>達到快速微滴之酶消化           | Development of a miniature device using ultrasonic nebulization for rapid microdroplet enzymatic digestion                              | 僅海報 Poster      | 葷 Regular      |
| 25   | 林鈺純   | 化學系              | 以綠色化學方式合成晶相可調控之高<br>比表面積孔洞氧化鋯材料          | Green-Chemistry Method to Synthesize Phase-Tunable<br>Porous Zirconia with High Surface Area  | 僅海報 Poster      | 素 Vegetarian   |
| 26   | 鄭禹荷   | 化學系              |  | Electron Dynamics in Alkane C–H Activation Mediated by Transition Metal Complexes   | 僅海報 Poster      | 不用餐<br>No Need |
| 27   | 周祐德   | 化學系              |  | Synthesis and Application of the Bifunctional Tag - Mono-<br>Sulfonated His5-Tag  | 僅海報 Poster      | 葷 Regular      |
| 28   | 邱裕文   | 化學系              |  | Ion-specificity Transport in Mesoporous Silica and Its<br>Fundamental Process   | 僅海報 Poster      | 葷 Regular      |
| 29   | 何政緯   | 化學系              | 多重孔洞碳材的孔隙結構對超級電容<br>效能之研究                | Effect of Pore Structures of Multiporous Carbons on the Performance of Supercapacitors  | 僅海報 Poster      | 葷 Regular      |
| 30   | 楊子誠   | 地球科學系            | 台南地區褶皺逆衝帶淺層地下速度構 造                       | Shallow velocity structure of Tainan fold-thrust belt   | 僅海報 Poster      | 葷 Regular      |
| 31   | 楊志揚   | 地球科學系            | 大台南地區場址效應及其與地質構造<br>之關係                  | Site effect and its relationship with geological structure in Tainan  | 僅海報 Poster      | 葷 Regular      |
| 32   | 楊惇惠   | 光電科學與工程學系        |  | Investigation of WO3 Nanorods NO Gas Sensors with Composite Nanostructures  | 僅海報 Poster      | 葷 Regular      |
| 33   | 程宥瑄   | 光電科學與工程學系        |  | A Biosensor Based on n-Type Organic Field-Effect<br>Transistors for Rapid Bacterial Detection with Lysozyme<br>Specificity              | 僅海報 Poster      | 葷 Regular      |
| 34   | 吳語騰   | 光電科學與工程學系        | 利用有限差分時域法模擬PEC片狀互<br>補結構的拓樸波導與共振腔        | FDTD Methods of Topological Waveguides and Resonators by Complementary Structured PEC Sheets  | 僅海報 Poster      | 葷 Regular      |

| 35 | 吳雨桐 | 光電科學與工程學系 | 利用PVA:DNA複合介電層之有機場效電品體開發高靈敏度生物感測器 | Development of High-Sensitivity Organic Field-Effect<br>Transistor Biosensors Based on PVA:DNA Composite<br>Dielectric Layer | 僅海報 Poster | 葷 Regular |
|----|-----|-----------|-----------------------------------|--|------------|-----------|
| 36 | 黃祥瑋 | 物理學系      |                                   | Fault tolerant quantum kernel on analog quantum computer   | 僅海報 Poster | 葷 Regular |
| 37 | 花天享 | 地球科學系     |                                   | The elasticity of CaSnO3 investigated by Brillouin scattering measurement  | 僅海報 Poster | 葷 Regular |
| 38 | 張鼎鈞 | 光電科學與工程學系 |                                   | Investigation of CsPbBr3 perovskite X-ray detector with spray-coating method growth in atmospheric environment               | 僅海報 Poster | 葷 Regular |

### 第3組

| 海報 |       | 条所             | 論文題目(中文)                               | 論文題目(英文)  | 展示方式       | 11/07     |
|----|-------|----------------|--|---|------------|-----------|
| 編號 | 投稿者姓名 | Department     | Research Title (Chinese)               | Research Title (English)  | Display    | 中午用餐      |
| 39 | 許哲彬   | 物理學系           | 石墨烯/超晶格石墨烯結節點之量子傳輸模<br>擬               | Quantum transport simulations for normal/superlattice graphene junctions  | 僅海報 Poster | 葷 Regular |
| 40 | 盧麒峰   | 化學系            | 探索與重新審視碳氮化物中的配位位點及峰值分配:基於模型化合物的XPS分析方法 | Exploring and Revisiting Coordination Sites and Peak<br>Assignment in Carbon Nitride: A Model Compound Approach<br>with XPS Analysis  | 僅海報 Poster | 葷 Regular |
| 41 | 藍啟軒   | 化學系            | 在K-PHI结構中引入特定缺陷以提高其光催<br>化性能           | Showing that the addition of specific defects in the K-PHI structure enhances its photocatalytic performance  | 僅海報 Poster | 葷 Regular |
| 42 | 李冠緯   | 化學系            |  | The synthesis of CaO/MgO/Al2O3 alkaline adsorbents for the removal of HCl acidic gas  | 僅海報 Poster | 葷 Regular |
| 43 | 許秀瑄   | 化學系            |  | Three-Coordinate Nickel Imido Complexes: Synthesis and Characterization   | 僅海報 Poster | 葷 Regular |
| 44 | 王昔文   | 化學系            | 基於Orbitrap的電荷檢測質譜法發展精確質<br>量測量技術       | Development of Accurate Mass Measurement Using Orbitrap-<br>based Charge Detection Mass Spectrometry  | 僅海報 Poster | 葷 Regular |
| 45 | 吳惠淇   | 化學系            | 合成中孔洞氧化矽 SBA-15 於新型雙穩態智<br>慧型玻璃窗開發之研究  | Synthesis of Mesoporous Silica SBA-15 for Application in New Bistability Smart Windows  | 僅海報 Poster | 葷 Regular |
| 46 | 廖宏峻   | 化學系            |  | Tuning ordered structures of intermetallic gold-copper nanocubes  | 僅海報 Poster | 葷 Regular |
| 47 | 黃若林   | 化學系            | 新型電洞傳輸材料的開發以促進有機鈣鈦礦<br>太陽能電池中的電荷傳輸效率   | Novel Hole Transport Materials Development to Boost Charge<br>Transfer in Organic Perovskite Solar Cells  | 僅海報 Poster | 葷 Regular |
| 48 | 鄭宇晴   | 地球科學系          | 沉積岩地熱場址地下溫度:以台南關子嶺溫<br>泉為例             | The Subsurface Temperature of Sedimentary Geothermal Sites:<br>Guanziling Hot Springs in Tainan, Taiwan   | 僅海報 Poster | 葷 Regular |
| 49 | 洪禹程   | 地球科學系          | 以礦物學方法評估高雄茂林區萬山部落之邊<br>坡穩定性            | Assessment of Slope Stability in Wanshan Village, Maolin<br>District, Kaohsiung, Through Mineralogical Methods  | 僅海報 Poster | 葷 Regular |
| 50 | 蔡智凱   | 光電科學與工程學系      | 高數值孔徑光學成像在次波長細胞結構中的<br>有限差分時域模擬        | FDTD Simulation of High-NA Optical Imaging for<br>Subwavelength Cellular Structures   | 僅海報 Poster | 葷 Regular |
| 51 | 張芷瑄   | 光電科學與工程學系      |  | Electron beam excited radiation from periodic metal rings with slits that varying with azimuthal angle  | 僅海報 Poster | 葷 Regular |
| 52 | 林俊廷   | 光電科學與工程學系      | 基於有限差分時域法模擬點波源和拓樸絕緣<br>體饋送的 縫隙天線共振模態   | FDTD Analysis of Slot Antenna Radiation Mode Fed by<br>Quantum Spin Hall Topological Waveguide  | 僅海報 Poster | 葷 Regular |
| 53 | 高鼎淵   | 光電科學與工程學系      |  | Suppression of Periodic Features and Enhancement of High-<br>Entropy Chaos Generation by Optimizing the Single-Loop<br>Optical Feedback Semiconductor Laser into the Dual-Loop<br>Configuration | 僅海報 Poster | 葷 Regular |
| 54 | 李耕儒   | 太空與電漿科學研究<br>所 |  | Theoretical model of Laser-driven proton acceleration via hybrid scheme   | 僅海報 Poster | 葷 Regular |

| 55 | HUYNH THI<br>MY DUYEN | 物理學系      |  | Exploring transport properties of Lieb lattice pn junctions  | 僅海報 Poster | 葷 Regular |
|----|-----------------------|-----------|--|--|------------|-----------|
| 56 | 黃浩然                   | 1 1 2 3 3 | 全於混立電解放系統提TMXene電極個能<br>性能力研究:原位拉曼與XRD分析 | Enhancing the Energy Storage Performance of MXene<br>Electrodes through Mixed Electrolyte Systems: In-Situ Raman<br>and XRD Analysis | 僅海報 Poster | 葷 Regular |
| 57 | ANAS<br>MUJAHID       | 光電科學與工程學系 |  | Unveiling the Hidden Singlet Fission Reaction in Polymer-based<br>Top Emissive Microcavity Devices through Magnetic Field<br>Effects | 僅海報 Poster | 葷 Regular |

### 第4組

| 第4組  |       |                  |  |   |                               |               |
|------|-------|------------------|--|---|-------------------------------|---------------|
| 海報編號 | 投稿者姓名 | 系所<br>Department | 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               | 11/07<br>中午用餐 |
| 58   | 李國成   | 物理學系             |  | Experiment demonstration of Bell inequality violations with random mutually unbiased bases  | 僅海報 Poster                    | 葷 Regular     |
| 59   | 吳欣祐   | 物理學系             |  | Quantum Transport Simulation of Graphene on Two Different-Height Electric Gates   | 僅海報 Poster                    | 葷 Regular     |
| 60   | 朱天仁   | 化學系              |  | Synthesize granulated Fe/Al2O3 Catalysts for SOx Removal and H2-<br>SCR   | 僅海報 Poster                    | 葷 Regular     |
| 61   | 江亭誼   | 化學系              | 藉由自上而下原生質譜法揭示蛋白質<br>組裝的化學計量比                     | Revealing the Stoichiometry of Protein Assemblies using Native Top-<br>Down Mass Spectrometry   | 僅海報 Poster                    | 葷 Regular     |
| 62   | 蔡昀軒   | 化學系              |  | Synthesis of NiO-MgO Catalysts Reducible under Hydrogen<br>Atmosphere at Particularly Low Temperature   | 僅海報 Poster                    | 葷 Regular     |
| 63   | 林玟伶   | 化學系              | 透過雙原子位點的共價有機框架奈米<br>酵素增強催化循環之協同雙金屬腫瘤<br>治療       | Enhanced Catalytic Cycle of Glucose Oxidation and Reactive Species with ROS and RHS Generation Mediated by Galvanic Engineering of Dual Atomic Sites on Covalent Organic Frameworks Demonstrating Synergistic Bimetal Tumor Treatment | 僅海報 Poster                    | 葷 Regular     |
| 64   | 劉晏泠   | 化學系              | 利用金奈米粒子結合電活性脂質膜捕<br>獲電子以破壞氧化還原平衡進行癌症<br>標靶治療     | Harnessing electron-capturing gold nanoparticles with electroactive liposome membranes for redox disruption in targeted cancer therapy  | 僅海報 Poster                    | 葷 Regular     |
| 65   | 周宜賢   | 化學系              | 利用動力學控制的化學選擇性大環化<br>方法來獲得勝肽大環的拓樸多樣性              | A kinetic-controlled chemoselective macrocyclization approach to access the topological diversity of peptide macrocycles  | 僅海報 Poster                    | 葷 Regular     |
| 66   | 林怡瑄   | 化學系              |  | A rational substituent approach to access sustainable dehydropolysaccharide through stereoselective cationic ring-opening polymerization  | 僅海報 Poster                    | 葷 Regular     |
| 67   | 鄧立瑜   | 地球科學系            |  | Using Microseismometers to investigate the Mud Diapir in Qishan,<br>Kaohsiung.  | 僅海報 Poster                    | 葷 Regular     |
| 68   | 林廷宇   | 地球科學系            | 中寮隧道環境躁訊分析                                       | Ambient noise analysis of Chung-Liao tunnel area.   | 僅海報 Poster                    | 葷 Regular     |
| 69   | 封羽珊   | 光電科學與工程學系        | 以環保溶劑於大氣下噴塗製備無鉛無<br>機鹵化物鈣鈦礦厚膜並應用於X光感測            | Lead-free inorganic halide perovskite thick films for X-ray detection under ambient spray coating with environmental-friendly solvent   | 僅海報 Poster                    | 葷 Regular     |
| 70   | 陳凱杰   | 光電科學與工程學系        | 以有限差分時域法模擬量子谷霍爾效<br>應之光學拓樸波導與共振腔                 | FDTD Simulation of Photonics Topological Waveguides and<br>Resonators by Quantum Valley Hall Effect   | 僅海報 Poster                    | 葷 Regular     |
| 71   | 郭冠霆   | 光電科學與工程學系        |  | Silver-Decorated Periodic Zinc Oxide Nanograss Patterned by<br>Nanoimprint Lithography for Superior SERS Performance  | 僅海報 Poster                    | 葷 Regular     |
| 72   | 李承遠   | 光電科學與工程學系        |  | Investigation of NO2 Gas Sensor using Hydrothermally Grown In2O3<br>Nanorods  | 僅海報 Poster                    | 葷 Regular     |
| 73   | 陳宛宜   | 化學系              | 二維 ZIF-67 複合 MoS <sub>2</sub> 作為高效催化劑應用於海水全水分解反應 | Two-Dimensional ZIF-67/MoS $_2$ /NF as a High-Performance Catalyst for Overall Water Splitting in Sea Water   | 海報與實品展示<br>Poster and Exhibit | 葷 Regular     |

| 74 | 賴靖蓉 | 化學系       |                     | Enzymatic Modification and Syntheses of New Drugs by Applications and Mechanistic Studies of Natural Product Glycosyltransferase                              | 海報與實品展示<br>Poster and Exhibit | 葷 Regular |
|----|-----|-----------|---------------------|---|-------------------------------|-----------|
| 75 | 丁乙凡 | 光電科學與工程學系 |                     | Solvent-Mediated Crystallization and Energy Transfer Dynamics in Quasi-2D Perovskite Thin Films for Enhanced Random Lasing                                    | 海報與實品展示<br>Poster and Exhibit | 葷 Regular |
| 76 | 林榮助 | 物理學系      | 性量子臨界點在重費米系統 CeTi1- | Non-Fermi-liquid behavior consistent with a preasymptotic disorder-<br>tuned ferromagnetic quantum critical point in the heavy fermion<br>system CeTi1-xVxGe3 | 僅海報 Poster                    | 葷 Regular |
| 77 | 洪煜恆 | 光電科學與工程學系 |                     | Cost-Effective and Eco-Friendly Nanoimprinting Techniques for<br>Metasurface Fabrication: A Simplified Approach for Reconstruction<br>Spectrometers           | 僅海報 Poster                    | 葷 Regular |

## 第5組

| わり泊  |                      |                             |                                      |   |                 |                |
|------|----------------------|-----------------------------|--------------------------------------|---|-----------------|----------------|
| 海報編號 | 投稿者姓名                | 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 | 11/07<br>中午用餐  |
| 78   | Pangihutan<br>Gultom | 物理學系                        |                                      | Epitaxial growth and characterization of nanoscale magnetic topological insulator: Cr-doped (Bi0.4Sb0.6)2Te3  | 僅海報 Poster      | 葷 Regular      |
| 79   | 邱琪鴻                  | 地球科學系                       |                                      | An Investigation into The Relationship between Avian Bone Structure and Flight Ability  | 僅海報 Poster      | 葷 Regular      |
| 80   | 張永昇                  | 光電科學與工程學系                   |                                      | Advancing semantic segmentation of two-dimensional materials using a semantic-adaptive transformer model  | 僅海報 Poster      | 葷 Regular      |
| 81   | 張睿                   | 地球科學系                       | 台灣東部花東縱谷微地動資料分析                      | Microtremor analysis in the central Longitudinal Valley, eastern Taiwan   | 僅海報 Poster      | 葷 Regular      |
| 82   | 陳冠宏                  | 地球科學系                       | 太平島海域地殼構造的重力與反射震 測特性                 | Multichannel seismic and gravity characteristics of the crustal structure in the Taiping Island, South China Sea  | 僅海報 Poster      | 葷 Regular      |
| 83   | 蕭芙佳                  | 光電科學與工程學系                   | 基於表面電漿奈米顆粒增益的聲光超<br>音波生成及其對影像增益的探討   | Generation of photoacoustic Signals Enhanced by Surface Plasmon Nanoparticles for Imaging Gain  | 僅海報 Poster      | 葷 Regular      |
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| 海報編號        | 投稿者姓名 | 系所<br>Department | 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 | 11/07<br>中午用餐  |
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