

國家同步輻射研究中心 光束線使用時程 (TPS Schedule for NSRRC Beamline)

期別：2019-2

期間：2019/05/14 ~ 08/31

總時段數: 213 shifts

光束線： TPS 09A1 Temporally Coherent X-ray Diffraction

發言人： 許火順

經理： 莊裕鈞
劉維仁

類別： 0：Proposal Evaluation Committee 1：Contract Beamline 2：Spokesperson 3：Beamline Maintenance & Study 6：Industrial Application 7：Directorate Discretion
8：Training Course 10：Beamline Commission 11：National Project

時段數：時間單位，以用戶使用8小時為1時段計算

計畫領域： 01：Atomic and Molecular 02：Surface, Interface and Thin Films 03：Condensed Matter Physics 04：Materials Sciences
05：Chemistry 06：Soft Matter 07：Protein Crystallography 08：Environmental and Earth Science
09：Methodology and Instrumentation 10：Nanofabrication 11：Applied and Industrial Research 12：Others

| TPS 09A | 計畫編號 | 計畫主持人 | 單位 | 類別 | 起始日期 | 結束日期 | 時段數 | 計畫領域 | 計畫名稱 |
|----------|--------------|-------|-----------------|----|------------------|------------------|-----|------|---|
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/05/14 09:00 | 2019/05/15 09:00 | 3 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2019-1-131-2 | 郭俊宏 | 中央研究院化學所 | 0 | 2019/05/15 09:00 | 2019/05/17 09:00 | 6 | 5 | Insights into Gas Ad-Desorption Behaviors of Au-Based Nanosensors |
| TPS 09A1 | 2019-2-009-1 | 陳登豪 | 淡江大學化學系 | 0 | 2019/05/17 09:00 | 2019/05/18 09:00 | 3 | 5 | Disclosing the Structural Information of Quinone-Based Metal-Organic Framework on Molecular Capture/Separation and Energy Storage |
| TPS 09A1 | 2019-2-214-1 | 柯碧蓮 | 國立成功大學化工所 | 0 | 2019/05/18 09:00 | 2019/05/20 09:00 | 6 | 4 | Coordination polymer for energy storage |
| TPS 09A1 | 2019-1-234-2 | 周方正 | NSRRC | 0 | 2019/05/20 09:00 | 2019/05/22 09:00 | 6 | 3 | Synchrotron X-ray structure determination of topological materials, layered materials of controlled vacancy/intercalation, and novel functional materials |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/05/22 09:00 | 2019/05/25 09:00 | 9 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2018-3-098-3 | 曾院介 | 國立交通大學材料科學與工程系所 | 0 | 2019/05/28 09:00 | 2019/05/30 09:00 | 6 | 2 | Probing phase-transition in HfZrO ₂ Ferroelectric Capacitors |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/05/30 09:00 | 2019/05/31 09:00 | 3 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2019-1-027-2 | 張石麟 | NSRRC | 0 | 2019/05/31 09:00 | 2019/06/04 09:00 | 12 | 2 | X-ray diffraction for back reflection, crystallographic phase, high-resolution X-ray optics with and without time-resolved experiments (I) |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/06/04 09:00 | 2019/06/06 09:00 | 6 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2019-1-342-2 | 吳茂昆 | 中央研究院物理所 | 0 | 2019/06/06 09:00 | 2019/06/08 09:00 | 6 | 4 | The study of structure between Fe order/disorder state in the K-(Metal)-Fe-Se system at 5K to 1100K. |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/06/19 09:00 | 2019/06/24 09:00 | 15 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2017-3-298-6 | 陳威廷 | 國立台灣大學凝態科學研究中心 | 0 | 2019/06/25 09:00 | 2019/06/26 09:00 | 3 | 3 | Interplay of the atomic modulation and charge ordering phase transitions in multiferroic perovskite family AMn ₇ O ₁₂ |

| TPS 09A | 計畫編號 | 計畫主持人 | 單位 | 類別 | 起始日期 | 結束日期 | 時段數 | 計畫領域 | 計畫名稱 |
|----------|--------------|-----------------|--|----|------------------|------------------|-----|------|--|
| TPS 09A1 | 2018-3-120-3 | 呂欽山 | 國立成功大學物理系 | 0 | 2019/06/26 09:00 | 2019/06/28 09:00 | 6 | 3 | Investigation of the coupling of charge orbital ordering and structural modulation in perovskite-related multiferroic candidates |
| TPS 09A1 | 2019-1-285-2 | 楊弘敦 | 國立中山大學物理系 | 0 | 2019/06/28 09:00 | 2019/07/01 09:00 | 9 | 3 | Exploring the origins of the complex magnetism and multiferroics in the low-dimensional magnetic materials using the synchrotron radiation source |
| TPS 09A1 | 2019-2-044-1 | 杜昭宏 | 淡江大學物理系 | 0 | 2019/07/01 09:00 | 2019/07/03 09:00 | 6 | 3 | Study of the magnetoelectric coupling in the Fe-based double-perovskite YBaCuFeO5 |
| TPS 09A1 | 2019-1-384-2 | 吳恆良 | 國立台灣大學凝態科學研究中心 | 0 | 2019/07/03 09:00 | 2019/07/04 09:00 | 3 | 2 | The Effect of Cosolvent and Carbon Materials on Lithium-Sulfur Batteries and Advanced Li-ion Batteries |
| TPS 09A1 | 2018-1-044-5 | 王迪彥 | 東海大學化學系 | 0 | 2019/07/04 09:00 | 2019/07/05 09:00 | 3 | 4 | In-situ Observation of Structure Transformation of Different Carbon Materials during AlCl4- Anions Intercalation/deintercalation in Al Ion Battery |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/07/05 09:00 | 2019/07/13 09:00 | 15 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2019-1-246-2 | 黃炳照 | 國立台灣科技大學化工系 | 0 | 2019/07/13 09:00 | 2019/07/15 09:00 | 6 | 4 | Development of in Operando X-ray techniques for electrochemical energy conversion and storage materials |
| TPS 09A1 | 2019-2-133-1 | 康敦彥 | 國立台灣大學化工系 | 0 | 2019/07/15 09:00 | 2019/07/17 09:00 | 6 | 4 | Diffusion of gas molecules in metal-organic frameworks (MOFs) – effects of framework flexibility and interior functional groups |
| TPS 09A1 | 2019-2-006-1 | Sham, Tsun-Kong | University of Western Ontario, Department of Chemistry | 0 | 2019/07/17 09:00 | 2019/07/19 09:00 | 6 | 4 | In-Situ XRD study on the morphology dependent phase transformations of TiO2 nanotubes |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/07/19 09:00 | 2019/07/24 09:00 | 6 | 12 | TPS 09A Beamline Commissioning (III) |
| TPS 09A1 | 2019-1-287-2 | 黃爾文 | 國立交通大學材料科學與工程系所 | 0 | 2019/07/24 09:00 | 2019/07/25 09:00 | 3 | 4 | Vacancy & Temperature-dependent Investigations for Additive-Manufacturing Advanced Alloys |
| TPS 09A1 | 2019-1-184-2 | 陳錦明 | NSRRC | 0 | 2019/07/25 09:00 | 2019/07/26 09:00 | 3 | 3 | In-situ investigation of electronic structure, spin state and crystal structure on energy-related materials and strongly correlated electron materials under extreme condition |
| TPS 09A1 | 2019-2-075-1 | 陳立仁 | 國立台灣大學化工系 | 0 | 2019/07/26 09:00 | 2019/07/27 09:00 | 3 | 4 | Pressure-dependence of small cage occupancy in the structure II tetrahydrofuran hydrate |
| TPS 09A1 | 2018-3-252-3 | 許益瑞 | 國立台北科技大學分子科學與工程系 | 0 | 2019/07/27 09:00 | 2019/07/29 09:00 | 6 | 5 | Structure Characterization of coordination complexes with spin transition and luminescence characters by x-ray spectroscopy and powder x-ray diffraction |

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|----------|--------------|-------------------|--|----|------------------|------------------|-----|------|--|
| TPS 09A1 | 2018-3-266-3 | 林彥谷 | NSRRC | 0 | 2019/07/29 09:00 | 2019/07/30 09:00 | 3 | 5 | Probing Electrochemical/Photoelectrochemical Reactions under In-situ/Operando Condition |
| TPS 09A1 | 2018-2-118-4 | 王俊杰 | NSRRC | 0 | 2019/07/30 09:00 | 2019/07/31 09:00 | 3 | 4 | Study of In-situ High-Entropy Alloy Lattice Deformation under High Temperature Using Synchrotron X-ray Diffraction Techniques |
| TPS 09A1 | 2019-1-322-2 | 劉沂欣 | 國立台灣師範大學化學系 | 0 | 2019/07/31 09:00 | 2019/08/01 09:00 | 3 | 5 | Unraveling of Crystalline Structures in Mesoporous 2D Semiconductors via Synchrotron Radiation Characterizations |
| TPS 09A1 | 2019-1-198-2 | Shimakawa, Yuichi | Kyoto Univ., Inst. for Chemical Research | 0 | 2019/08/01 09:00 | 2019/08/03 09:00 | 6 | 4 | Solid-state chemistry for transition-metal oxides: Exploring for new materials with novel functionalities |
| TPS 09A1 | 2019-1-390-2 | 陳貴賢 | 中央研究院原分所 | 0 | 2019/08/06 09:00 | 2019/08/08 09:00 | 6 | 4 | Understanding Highly Efficient Materials for Conversion and Conservation Green Energy Technologies |
| TPS 09A1 | 2019-2-132-1 | 陳信文 | 國立清華大學化學工程學系 | 0 | 2019/08/08 09:00 | 2019/08/09 09:00 | 3 | 4 | Phase Stability and Superstructure Analysis of Decagonal Quasicrystals by Synchrotron X-ray Diffraction |
| TPS 09A1 | 2019-1-396-2 | 陳翰儀 | 國立清華大學材料科學工程學系 | 0 | 2019/08/09 09:00 | 2019/08/11 09:00 | 6 | 2 | In-situ X-ray Absorption, X-ray Diffraction, and transmission X-ray microscopy studies of metal oxide electrodes for lithium ion batteries, sodium ion batteries, and supercapacitors-Part 3 |
| TPS 09A1 | 2019-1-319-2 | 許火順 | NSRRC | 10 | 2019/08/11 09:00 | 2019/08/17 09:00 | 18 | 12 | TPS 09A Beamline Commissioning (III) |

09A1 PEC: 138 Shifts (64.8%)

COM: 75 Shifts (35.2%)