학술행사
(Conference)

- 학술대회 안내 (Overview)
- 전체 일정 (Program at a Glance)
- 기조강연 (Plenary Lecturers)
- 반도체 국제 심포지엄 (International Symposium on Semiconductor Technology and Characterization)
- **특별 심포지엄 (Symposia)**
- 논문발표 안내 (Author introductions)
- 등록안내 (Registration)
- 초록제출 (Abstracts)
- 숙박 안내 (Accommodation)
- 지난 학술대회 (Past Conferences)

회원 정보

**이은지**님 반갑습니다.
인증 정회원

회원정보 확인 및 수정
사용종료 (로그아웃)

# 특별 심포지엄 (Symposia)

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|---|---|
| IP1 | Advanced functional microscopy and spectroscopy |
| IP2 | Advances in SEM/FIB and EBSD for High-Resolution Imaging and Structural AnalysIP |
| IP3 | Advanced scanning probe microscopy studies in functional materials |
| IP4 | Big data- and AI agent-driven research |
| IP5 | 3d imaging |
| IP6 | Volume Microscopy |
| IP7 | X-ray microscopy |
| LMP1 | Advanced Energy Materials |
| LMP2 | Semiconductor Materials and Characterization |
| LMP3 | Cryo-EM Research on Challenging Protein Complexes |
| LMP4 | Nano-Optical Imaging |
| SP1 | Analysis methods for secondary battery and battery materials and technology exchange related to the preprocessing process of materials |
| SP2 | International Symposium on Semiconductor Technology and Characterization |
| SP3 | Satellite Symposium |

## Advanced functional microscopy and spectroscopy

### Introduction

This session will include TEM studies of the structure, phases, nucleation, growth, defects, interfaces, and surfacess in nano-materials, such as 2D crystals, nanorod, nanodot, thin films, and nanocrystals, as well as direct imaging and 3D imaging of soft materials (organic or bio-materials) using the application of aberration-corrected scanning/transmission electron microscope (S/TEM), electron diffraction, energy-dispersive X-ray spectroscopy (EDS), and electron energy loss spectroscopy (EELS), 4D-STEM

### Topics

aberration-corrected scanning/transmission electron microscope (S/TEM),
electron diffraction, energy-dispersive X-ray spectroscopy (EDS), and electron energy loss spectroscopy (EELS)
4D-STEM, Ptychography, in-situ TEM, battery, semiconductor, metal, catalyst, instrumentation, cryo TEM, 3D analysis, protein

### Invited Speakers

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|---|---|
| **Speaker** | 박정재 |

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|---|---|
| **Affiliation** | RIST |
| **Presentation title** | Corrosion behaviors of Zn-Al-Mg Alloys revealed by liquid-phase TEM |

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|---|---|
| **Speaker** | 구건모 |
| **Affiliation** | 부산대학교 |
| **Presentation title** | Thermomechanical Disproportionation of Silicon Oxynitride at Closed-Cell Environmental Transmission Electron Microscopy |

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|---|---|
| **Speaker** | 박재열 |
| **Affiliation** | KIER |
| **Presentation title** | Transmission Electron Microscopy of Layered Cathodes for Rechargeable Batteries |

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|---|---|
| **Speaker** | 장준하 |
| **Affiliation** | RIST |
| **Presentation title** | Analysis of degradation mechanism of layered oxide cathodes for lithium-ion battery using transmission electron microscopy |

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|---|---|
| **Speaker** | 김나연 |
| **Affiliation** | KIMS |
| **Presentation title** | Transforming Electron Microscopy: Ptychography as a Bridge to Multimodal Atomic Imaging |

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|---|---|
| **Speaker** | 한상섭 |
| **Affiliation** | KBSI |
| **Presentation title** | Heterogeneous 2D TMDs Integration: From Growth to Future Electronics |

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|---|---|
| **Speaker** | 이은지 |
| **Affiliation** | GIST |
| **Presentation title** | Decoding the cellular self-assembled nanoparticles by cryo-TEM |

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|---|---|
| **Speaker** | 정민교 |
| **Affiliation** | 한국뇌연구원 |
| **Presentation title** | Spatiotemporal tracking of intracellular nanoparticles using complementary imaging techniques |

TOP

**Korean Society of Microscopy**

개인정보취급방침 첫페이지

**(사)한국현미경학회** (고유번호 : 209-82-06363, 대표자 : 여종석)
**주소 :** 02794, 서울특별시 성북구 월곡로 14길 24 월곡래미안 루나밸리 상가 303호 **대표전화 :** 02-919-8775
**전자우편 :** office@microscopy.or.kr