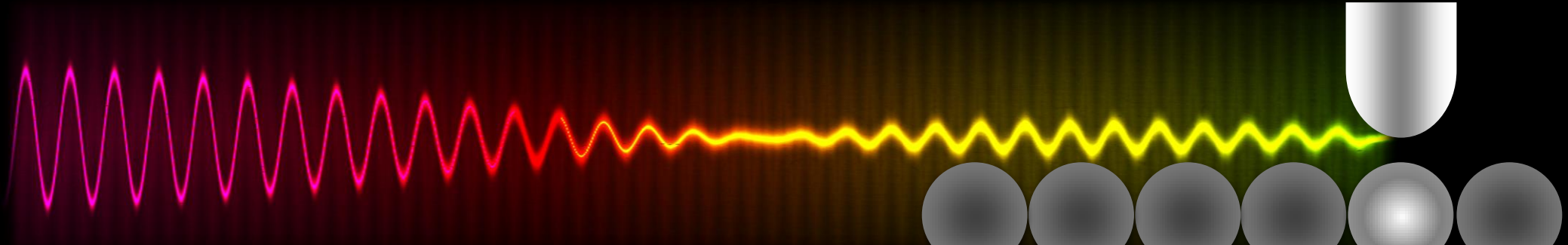


ARON LAB Atomic Research of Nano-materials Lab



저차원 나노소자 측정 연구실

Contact: Taehwan Jeong (정태환)
tjeong.aron@gmail.com, 010-4399-5493

Research Goals

저차원 나노물질 (그래핀, 위상절연체, 전이 금속 디칼코게나이드, 1차원 나노와이어, 나노파티클 등) 을 물리적인 관점에서 합성 및 측정하며, 차세대 반도체 소자 및 양자컴퓨팅 환경에서 응용할 수 있는 기술을 개발한다.

Professors

Young Jae SONG (송 영 재)

Associate Professor in
Depart. of Nano Engineering,
Depart. of Physics, and
SKKU Advanced Institute of Nanotechnology

Ph. D in Seoul National University, Korea
Postdoctoral Researcher in NIST, US
Visiting Scholar in Samsung, Korea

SCI Research Papers: 69 including Nature
US Patents: 4 (registered only)

E-mail : yjsong@skku.edu
Tel: 031-299-4168



Collaborations



Alumni



Ph.D level researcher in SK hynix
R&D in production and nanotechnology

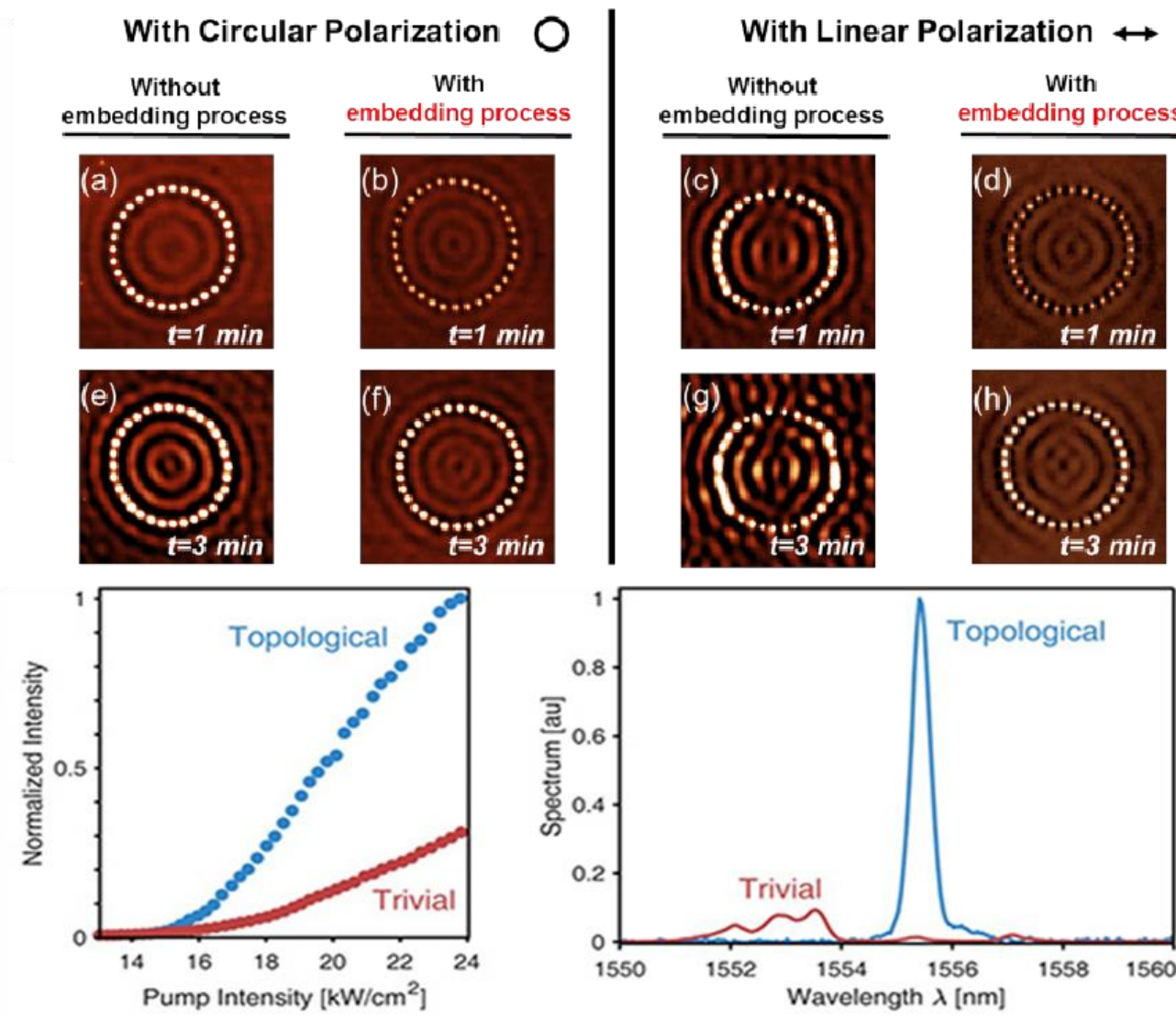
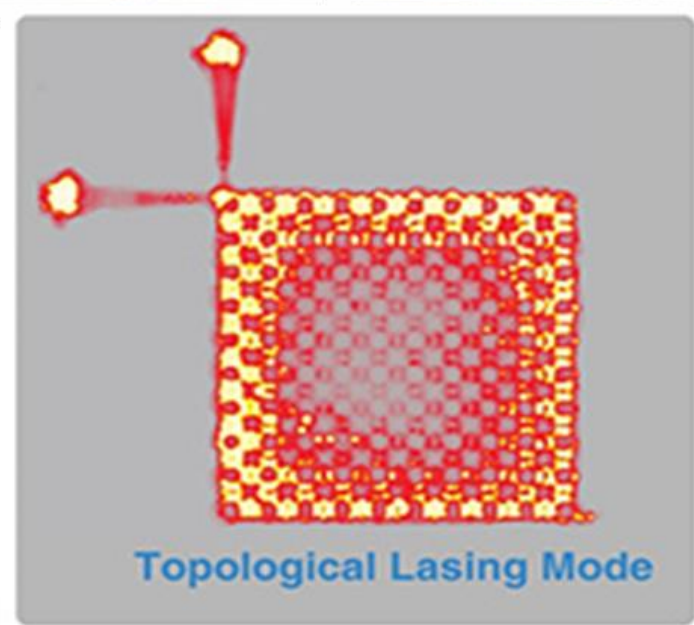
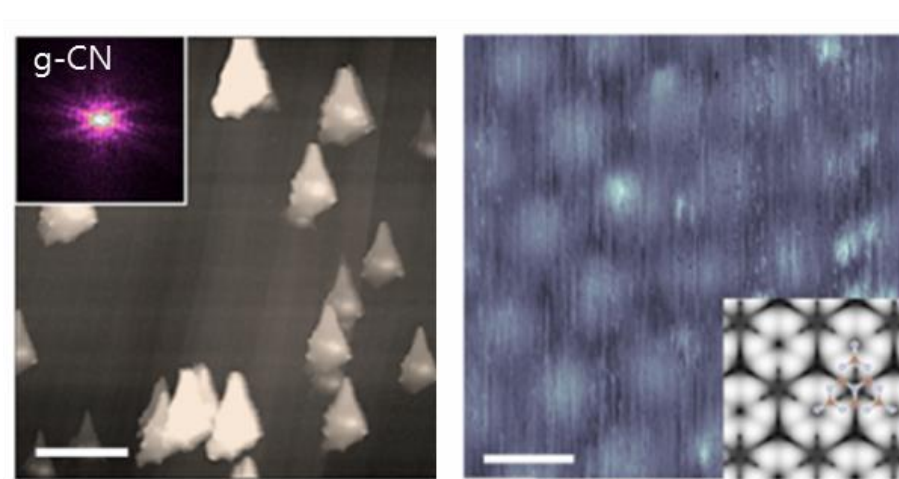
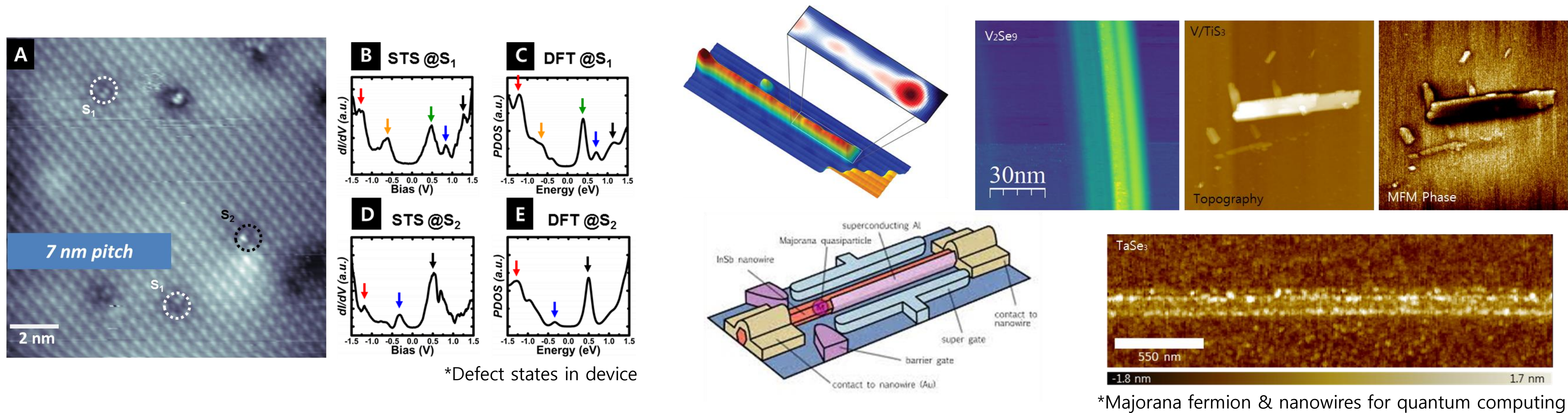


Post Doc. in Tsinghua University
Synthesis & Characterization of 2D nanomaterials

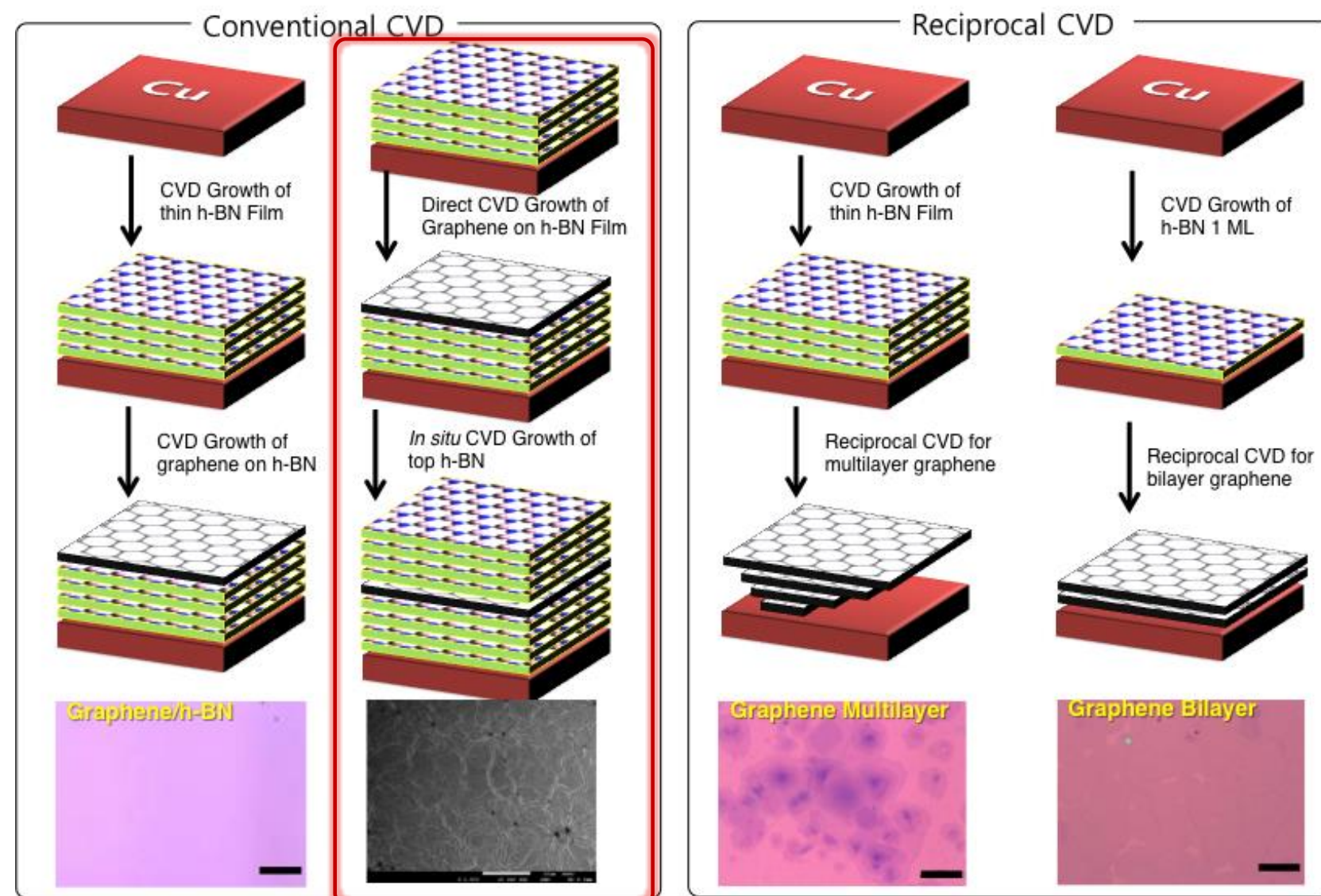


Ph.D level researcher in Yonsei University
Surface Analysis Department @ YCRF
TEM operation and management

Research Item

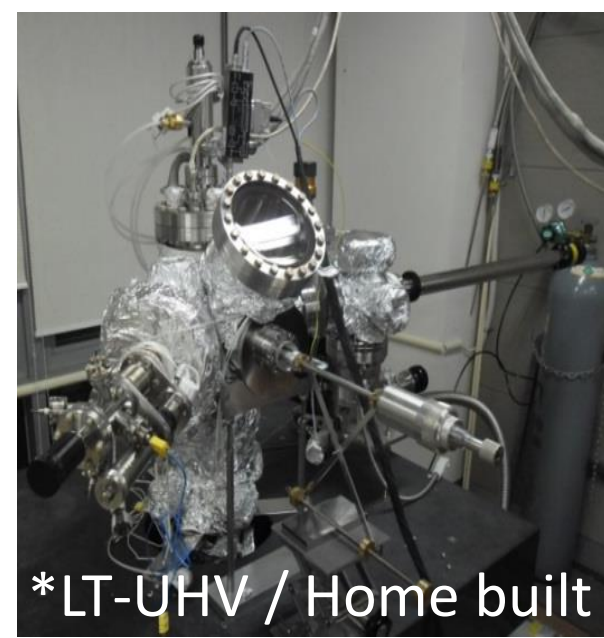


*topological and near-field optics for optoelectronics

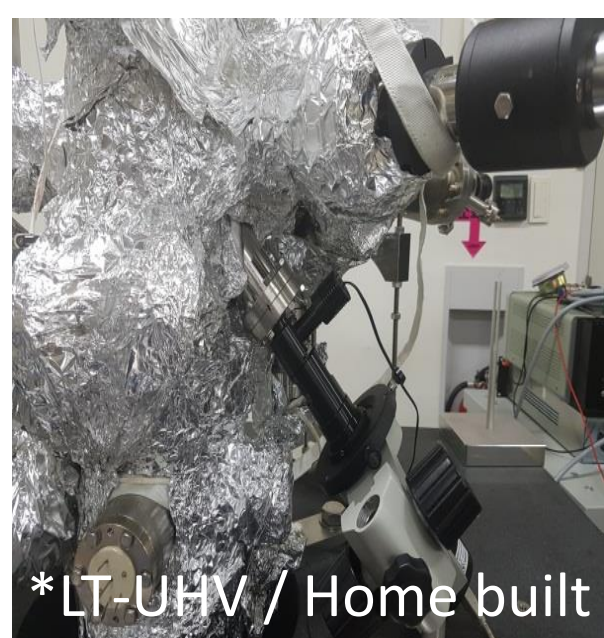


*Synthesize 2D materials for device application

Scanning Tunneling Microscope



*LT-UHV / Home built



*LT-UHV / Home built

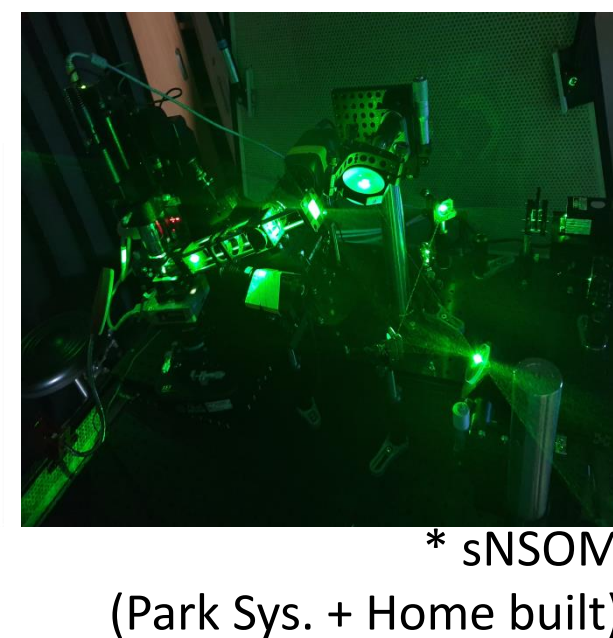


*RT / Home built

Atomic Force Microscope

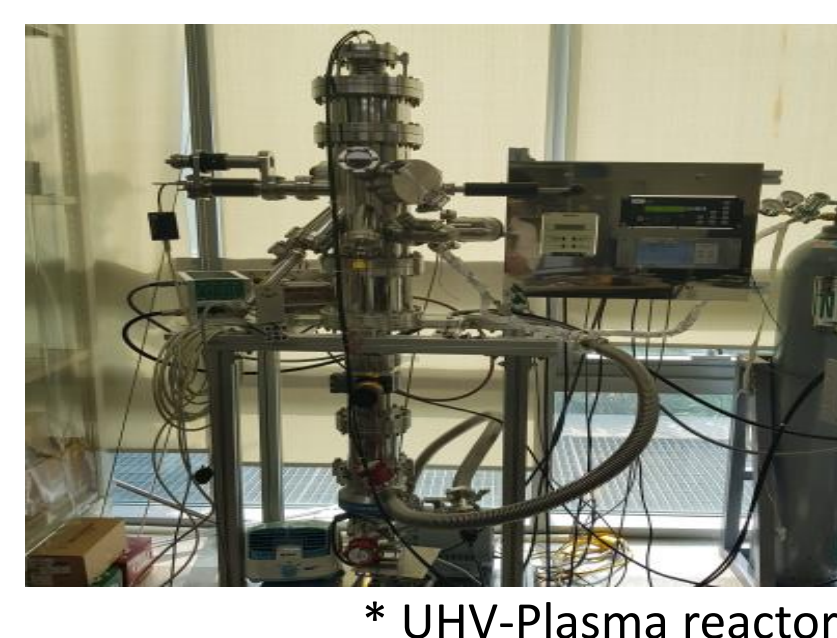


* Park Sys. Multi mode AFM
(SKPM/CAFM/MFM/SGM/FMM)



* sNSOM
(Park Sys. + Home built)

Plasma Reactor



* UHV-Plasma reactor