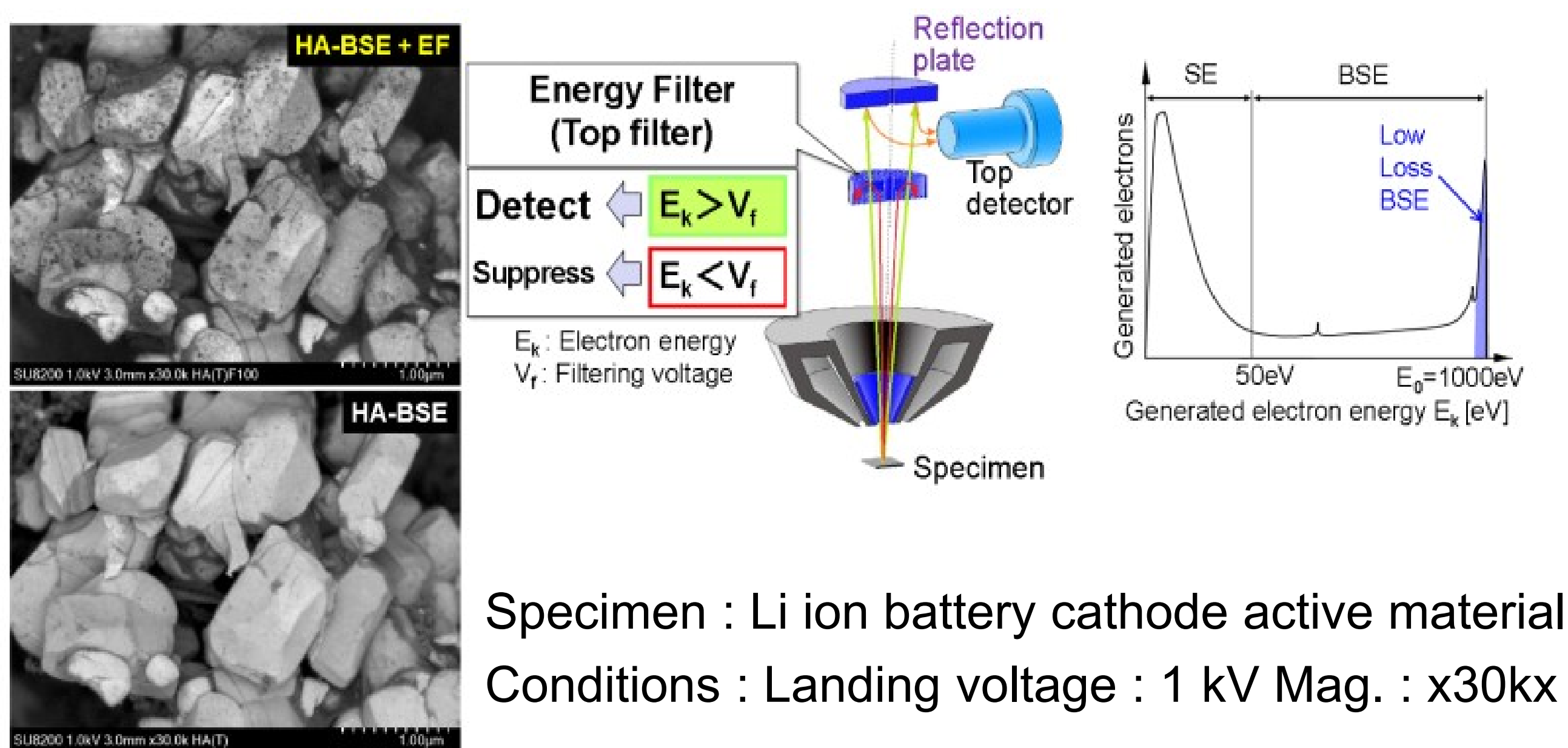


The perfect fusion of UHR Imaging and Analysis

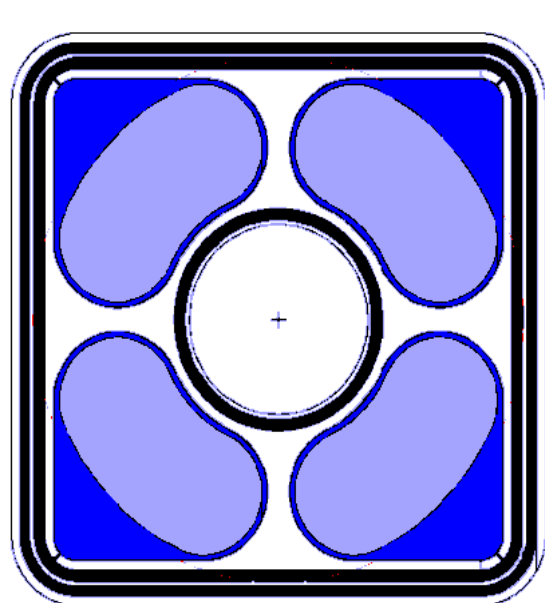


- **New long-life field emitter technology** with lowest energy spread and mild background flashing while HV is on
- **High imaging resolution**
1.1nm resolution @ 1kV, 0.8nm @ 15kV
- **Triple detection system** as standard with chamber SED, Super ExB in-lens SE and High Angle (HA)-BSE signals
- **Energy filter** of low energy SE with Low Angle BSE mode and of HA-BSE with optional Top filter function to enhance Low Loss BSE (LL-BSE)
- **Advanced low kV BF STEM** detection by a 4-step Bright Field aperture (BFA)
- **Superior low kV Dark Field STEM** detector with flexible detections angle up to 1100mrad
- **Probe currents from 1pA to 20nA** enable both, imaging of beam sensitive samples and fast EDS analysis
- **Optimized anticontamination** strategy by the integrated cold trap
- **Advanced options** available (PD-BSE, nanomanipulation, EBIC, cryo, etc...)

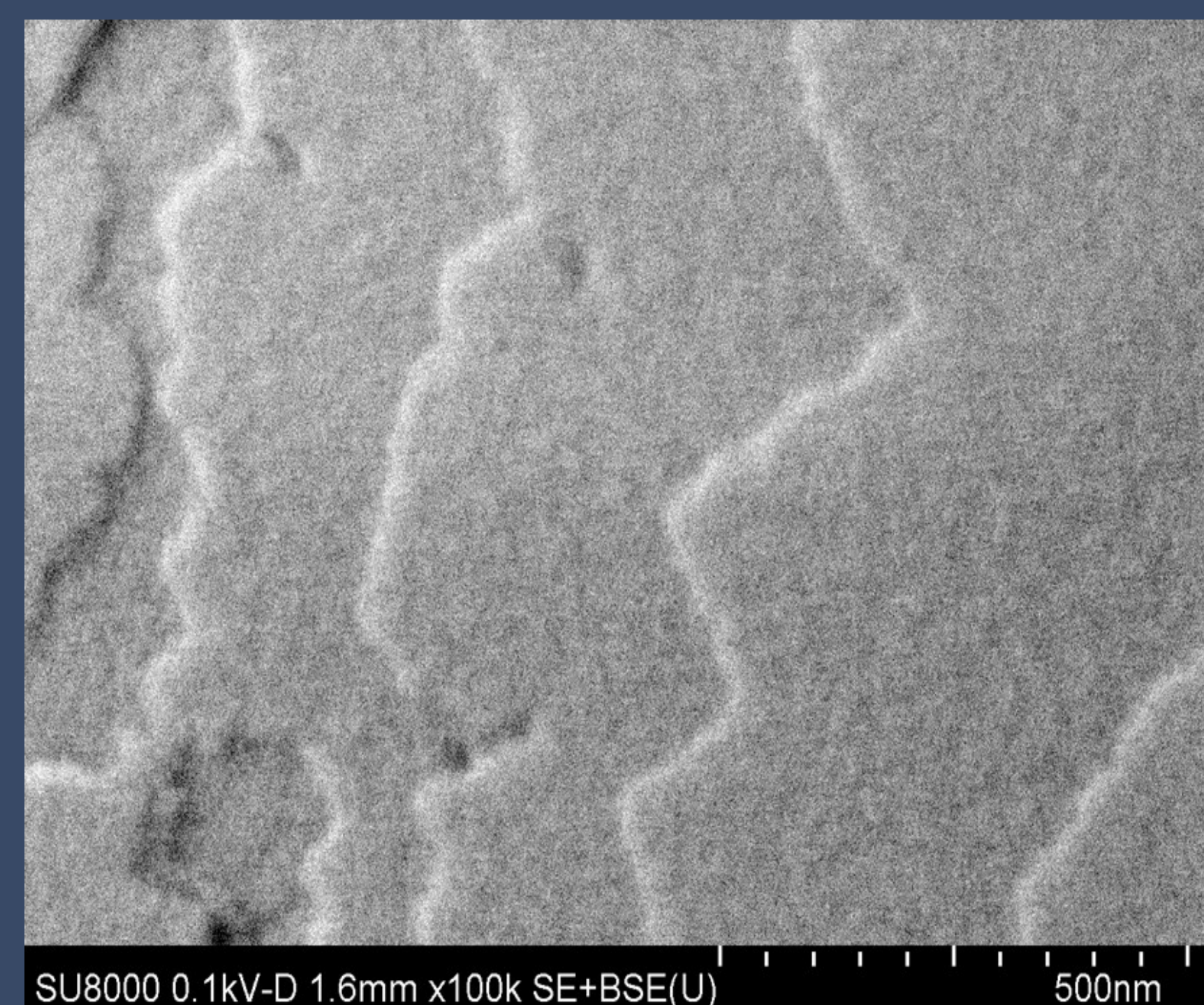
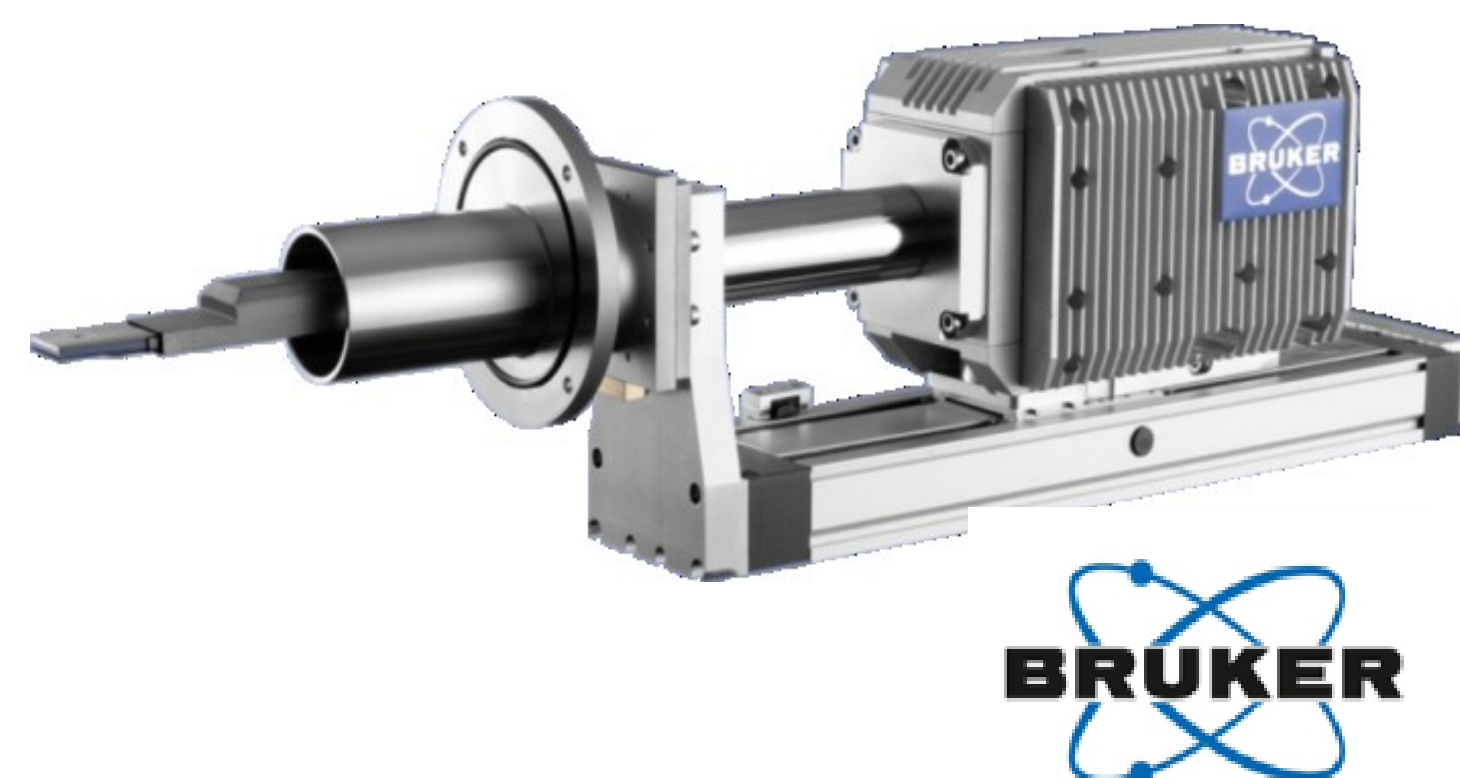
Energy Filter imaging of Li ion Battery



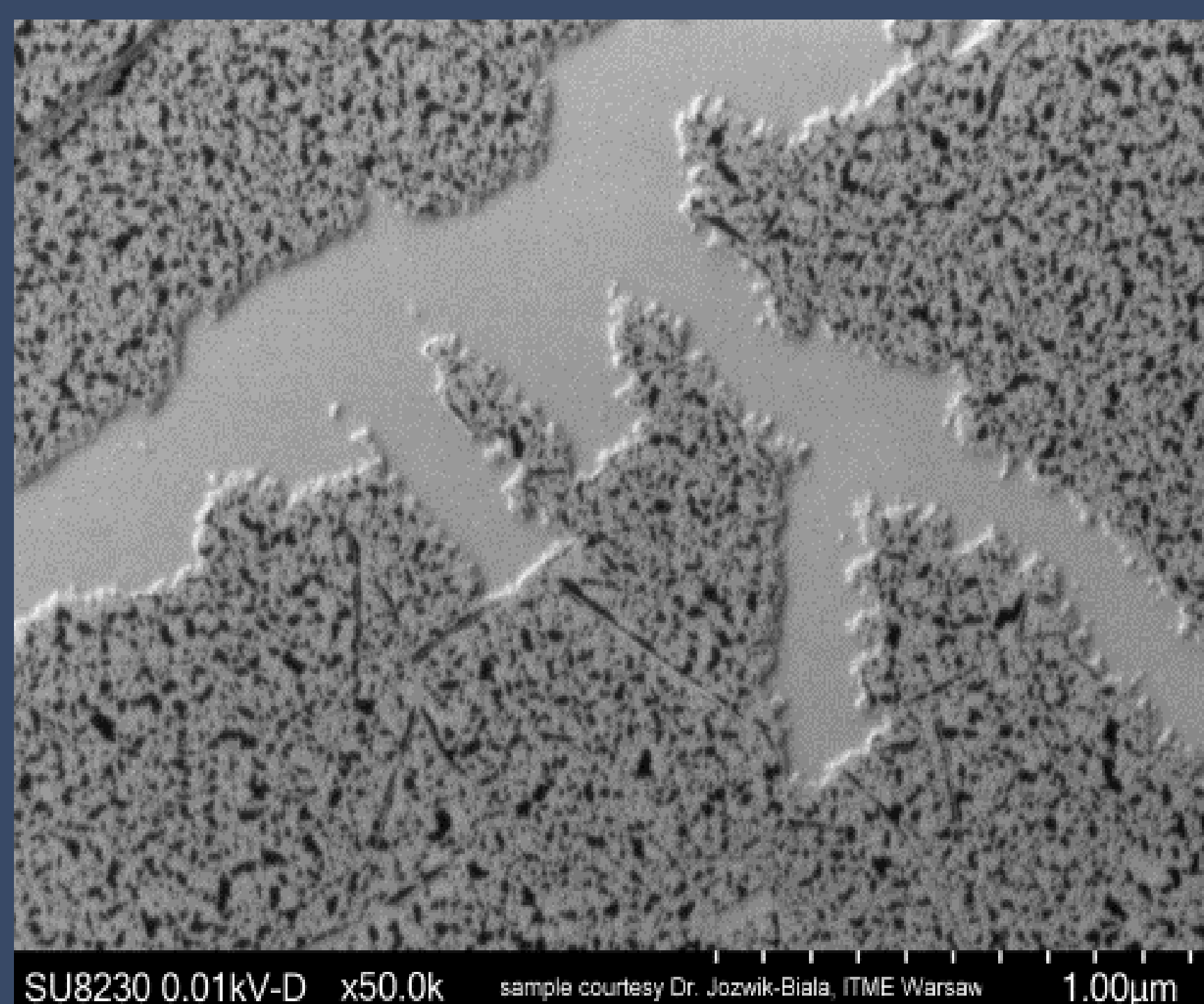
Low-voltage EDX analysis with Bruker FQ- Detector



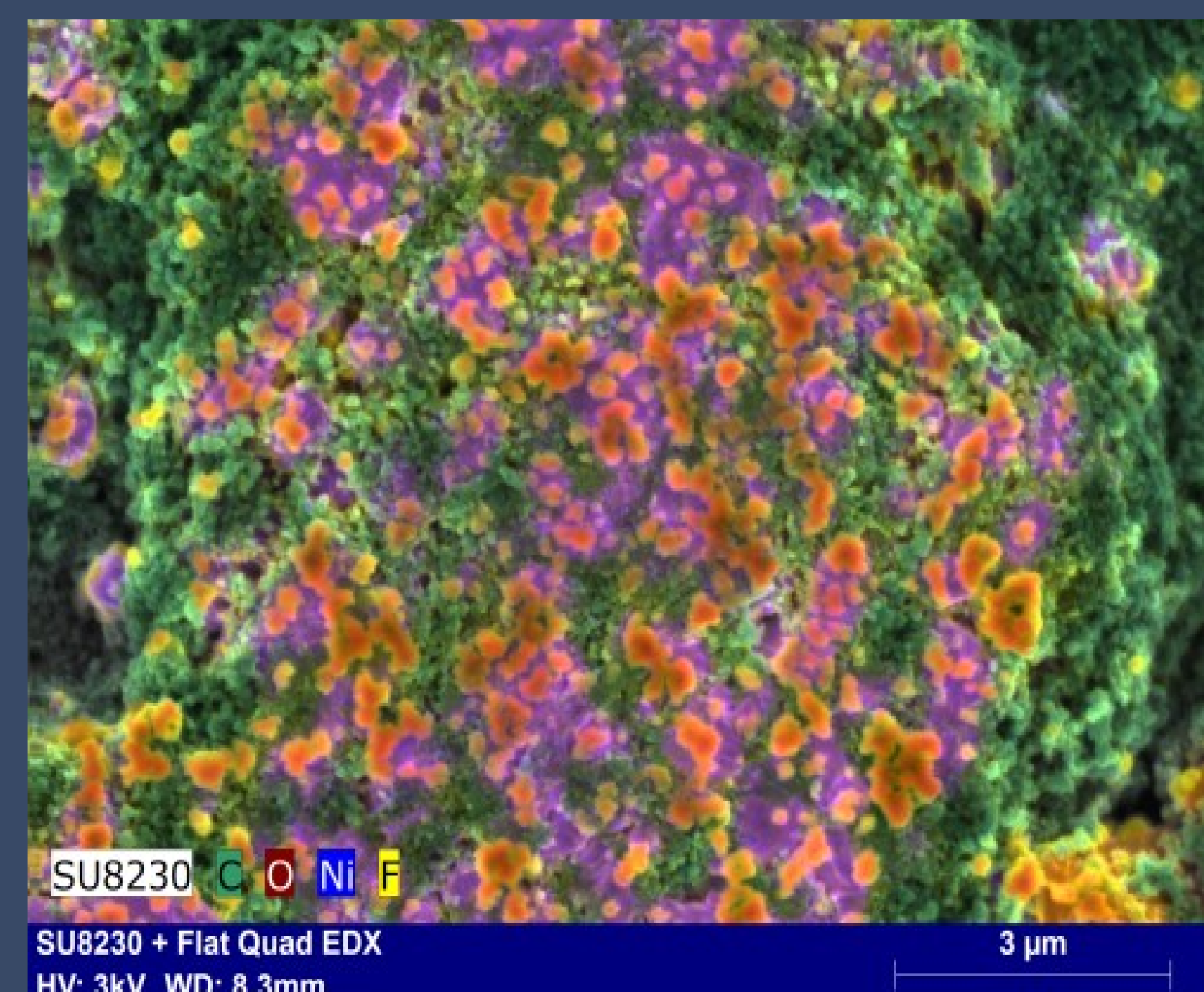
4x15mm²=60mm²
Resolution ≤133eV
Solid angle > 1sr



Sample : Vacuum deposited Pentacene multi-layer islands
 $U_{land} = 100V$



Sample : Graphene
Ultra Low Voltage image with SE(T)
 $U_{land} = 10V$



Sample : LiB
Low Voltage EDX Map after 8 min.