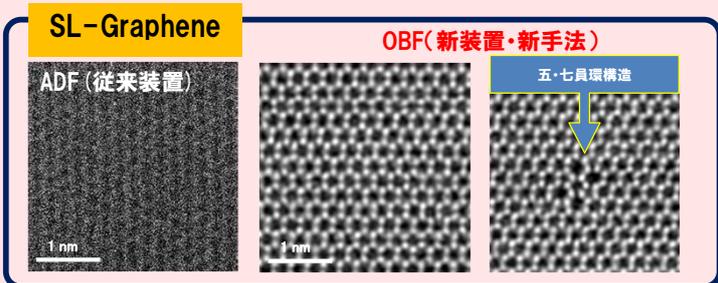


ハイエンド原子分解能S/TEM測定例

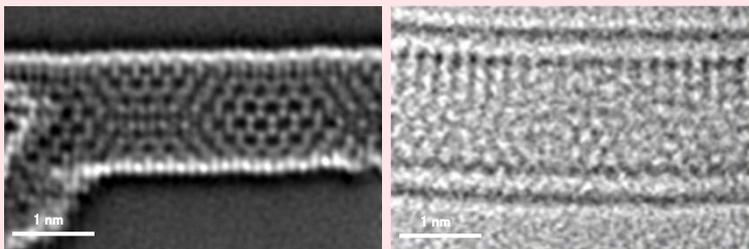
I. 各種材料のEDMおよびOBF-STEMを用いたSTEM像と触媒担持カーボンのSE/STEM同時観察

●カーボン材料 (80 kV, OBF, Cs-corrected TEM)

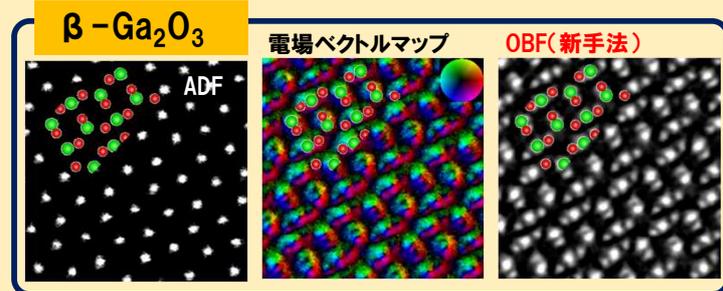
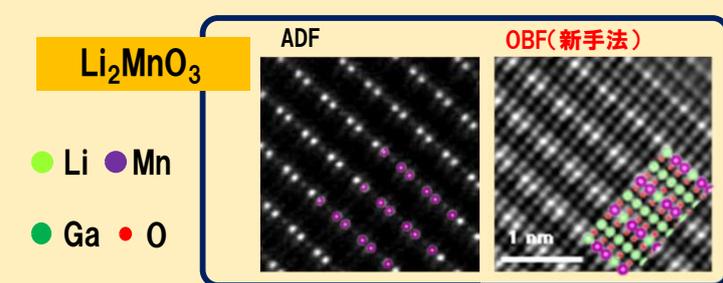


OBF (新手法) : SWCNT

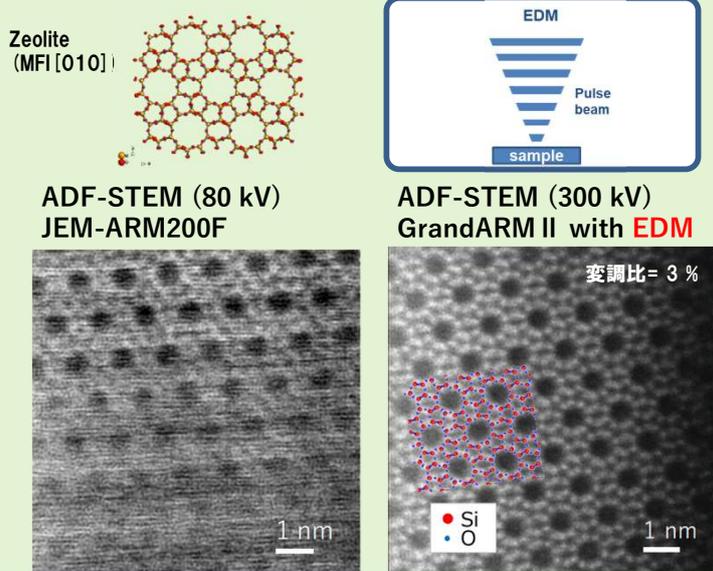
Cs-corrected TEM : DWNT



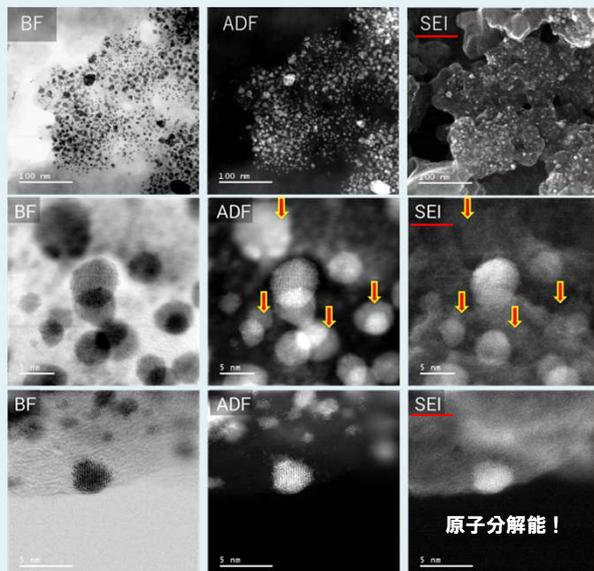
●半導体・電池材料 (300 kV, OBF, DPC)



●電子線脆弱材料：ゼオライト (300 kV, EDM)



●触媒担持カーボン (300 kV, SE/STEM同時観察)



II. 東レリサーチセンター仕様GrandARM II 搭載の検出器／機能一覧

検出器	
One-View IS	Imaging, <i>in-situ</i> TEM
158 mm ² SDD×2	EDXS
Continuum S	EELS
SAAF-quad	DPC, OBF-STEM
4D-Canvas	DPC, Ptychography
SE検出器	SEI (STEM像と同時取得)

機能	
EDM	間欠照射, 電流量調整
Synchrony	選択照射
RELATIVITY	高時間分解能化
STEMx	DPC, ACOM-TEM
Tomography	3D-TEM

EDM: Electrostatics Dose Modulator
OBF: Optimum Bright Field
DPC: Differential Phase Contrast

先端分析機能が搭載された最新機、是非 試して観て下さい!