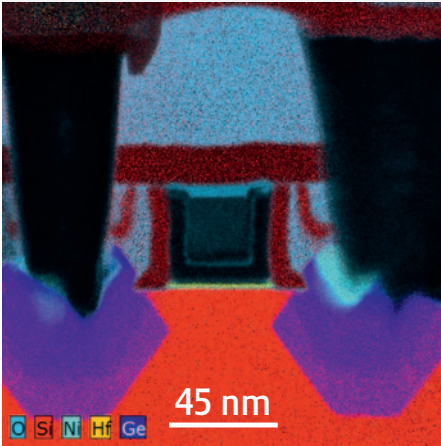


ChemiSTEM™ technology

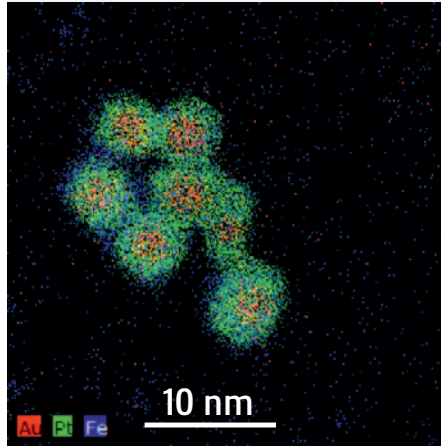
A revolution in EDX analytics

Large map, all elements



45 nm PMOS structure
600 x 600 pixels
Drift correction applied

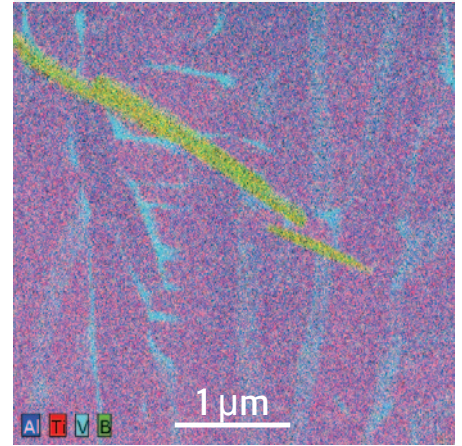
High sensitivity



Au/Pt(Fe) core/shell particles < 5 nm
300 x 300 pixels recorded in < 4 min

Sample courtesy of C. Wang, V. Stamenkovic,
N. Markovic and N.J. Zaluzec, Argonne
National Laboratory

Light element detection



Boron distribution in TiB/TiAl
512 x 512 pixels recorded in < 5 min
100 µsec dwell time; multiple frames

Sample courtesy of
Ohio State University



Tecnai Osiris™

ChemiSTEM™ technology, higher beam current and revolutionary X-ray detection capability:

- Largest solid angle for EDX detection: 0.9 sr
- Ultimate speed: elemental maps in minutes
- Highest sensitivity for light elements and low concentrations

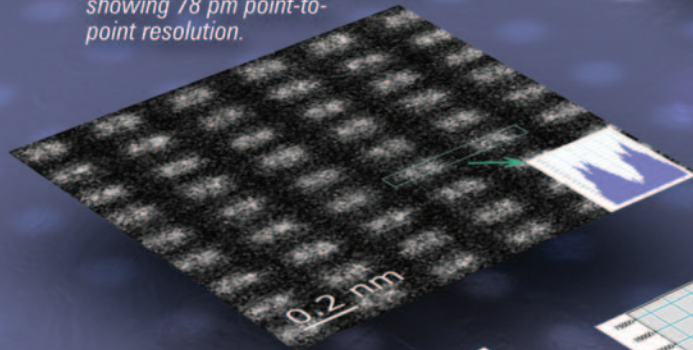
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Raw high angle annular darkfield (HAADF) STEM image of Si (112) showing 78 pm point-to-point resolution.



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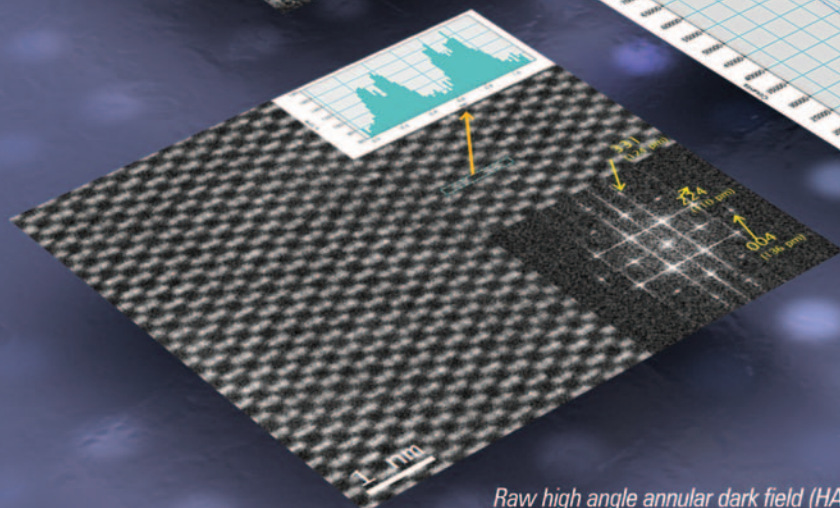


JEOL

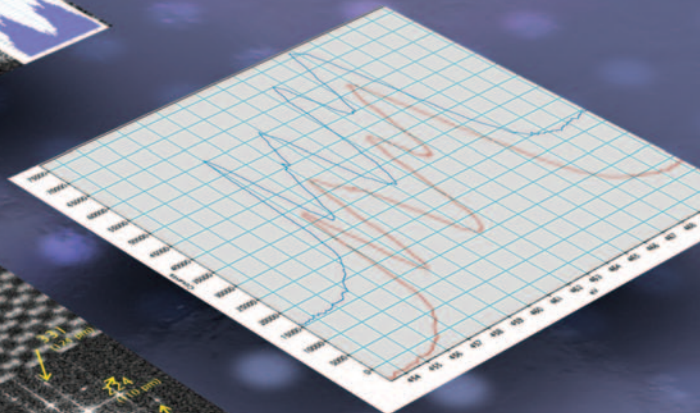
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Raw high angle annular dark field (HAADF)
STEM image of Si (110) at 80 kV.



EELS spectra of rutile and anatase
TiO₂ showing fine structure differences
in the Ti-L_{2,3} edge made visible by the
low energy spread of Cold FEG.



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