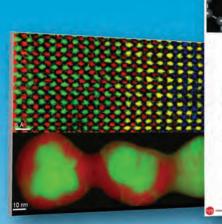


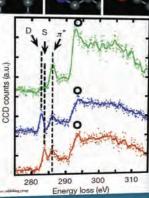
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- Top) Colonzed elemental map showing Sr L₂-edges (green), Th L₂-edges (red), La M₄-edges (yelow), and Mn L₂-edges (blue). Image captured using a Gatan Enlinium "ER. Sample courtesy of Prof. David Smith, Anzona State University. (Golton) RGB composite EELS STimage of Au/Pd nanoparticle: Au M₄-edges (tred), La M₄-edges (at 2206 eV in green and Pd L₂-edges at 3173 eV in red. Low and high-loss regions of the EELS spectrum can be simultaneously acquired in DualEELS^{1W} mode. Absolute quantification of the atoms is now possible for Au. Images captured using a Gatan EP Quantum"ER. Sample courtey Dr. Jianfang Wang of The Chinese University of Hong Kong. Figure 1 from: K. Suenaga et al. Atom-by-Atom spectroscopy analysis at graphene edge; Nature 468, 1088–1090 (23 December 2010). ELNES of individual atoms in grapheme. Different states of atomic coordination are illustrated at top. ELNES of carbon K (13) spectra shown on bottom. Green, Blue and red spectra correspond to the normal sp² carbon atom, a doable-coordinated atom, and a single coordinated atom, respectively. Images captured using a Gatan Quantum"ER. Low-Voltage Special: Data courtesy of K. Suenaga and M. Koshino (AIST. Tsukuba, Japan). Permission to use Figure 1 franted by K. Suenaga and Nature Publishing Group. Copylint = 2010, rights managed by Nature Publishing Group. Unfiltered, conventional TEM image and elemental maps of a capillary blood vesiel captured using a Gatan GIF Quantum"ER. The Ca and P elemental maps were extracted from an EFTEM-SI dataset acquired using Gratan's DigitalMicrograph' software. EFTEM-SI is capable of revealing relative concentrations below 1% as shown in the P elemental map. Sample courtesy of X-redge. Subt Were Networks 20 × 520 EELS spectrum image (2 GB dataseb) acquired in 5 minutes at 1000 spectra per second, high-speed EELS acquisition mode. Image captured using a Gatan GIF Quantum"ER EELS system mounted on a 200 kV LaB6 STEM.



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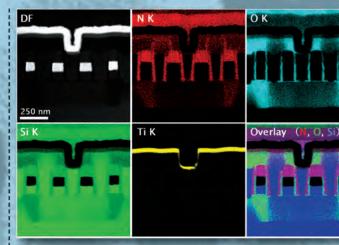
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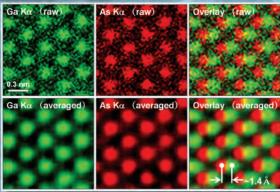
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