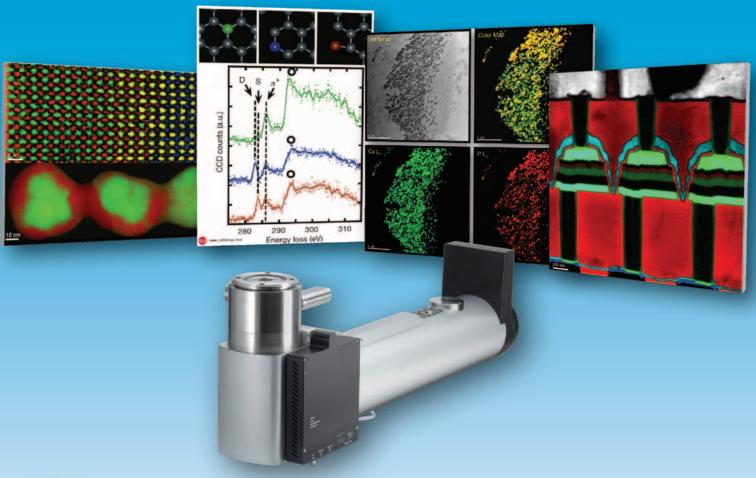


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- rages, left to right:

 (Top) Colorized elemental map showing Sr L₂-edges (green), 'Ti L₂-edges (green), 'Ti L₂-edges (yellow), and Mn L₂-edges (blue). Image captured using a Gatan Enfinium"ER. Sample courtesy of Prof. David Smith, Arizona State University. (Bottom) RCB composite EELS I image of Au/Pd nanoparticle; Au M₁₅-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™ mode. Absolute quantification of the atoms is now possible for Au. Images captured using a Gatan GIF Quantum"ER. Sample courtesy 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. Becember 2010). ELNES of individual atoms in grapheme. Different states of atomic coordination are illustrated at top. ELNES of carbon K (1s) spectra shown on bottom. Green, blue and red spectra correspond to the normal spiration atom, a double-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, apan). Permission use figure 1 granted by K. Suenaga and Marture Publishing Group. Copyright © 2010, rights managed by Nature Publishing Group. Unfiltered, conventional TEM image and elemental maps of a capillary blood vessel captured using a Gatan GIF Quantum"ER. The Ca and P elemental maps were extracted from an EFTEM-SI dataset acquired using Gatan's DigitalMicrograph* software. EFTEM-SI capable for revealing relative concentrations below 1% as shown in the P elemental map. Sample courtesy of Dr. Wenlang Lin, Mayo Clinic.

 High-speed STEM EELS mapping of a commercial semiconductor device. Crey. Cu L₂-edges; Refer of Cu-2-edges; Refer Cu-2-edges; Refer





Microscopy & Microanalysis

The Official M&M Pre-Meeting Guide

Phoenix, Arizona, USA • July 29-August 2, 2012



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