

Figure 1: 3D reconstruction of APT data from the CS Cr-coating/Optimized ZIRLO™ interface and the area around. In (a) the distribution of Cr atoms (pink, 30% of ions are shown) is displayed, in (b) the disposition of Zr atoms (Blue, 30% of ions are shown) can be seen. An image of a 15 nm slice through the intermixed bonding region (rotated 90°) is presented, here the Cr atoms are in pink and the light-blue particles (isosurfaces at 4 at.% C) represent high concentration of C atoms.

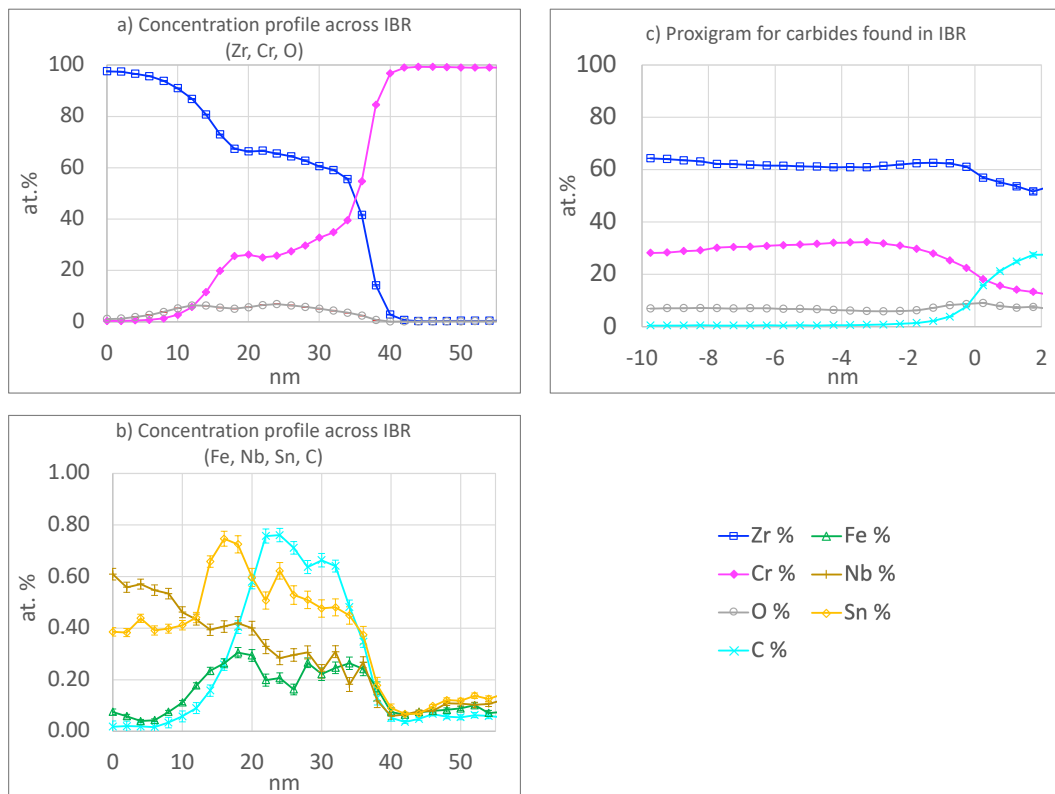


Figure 2: (a) and (b) Concentration profiles across the intermixed bonding region (IBR) found at the CS Cr-coating/Optimized ZIRLO™ interface. (c) Proximity-histogram for carbides found embedded in the intermixed bonding region.