

Supporting Materials

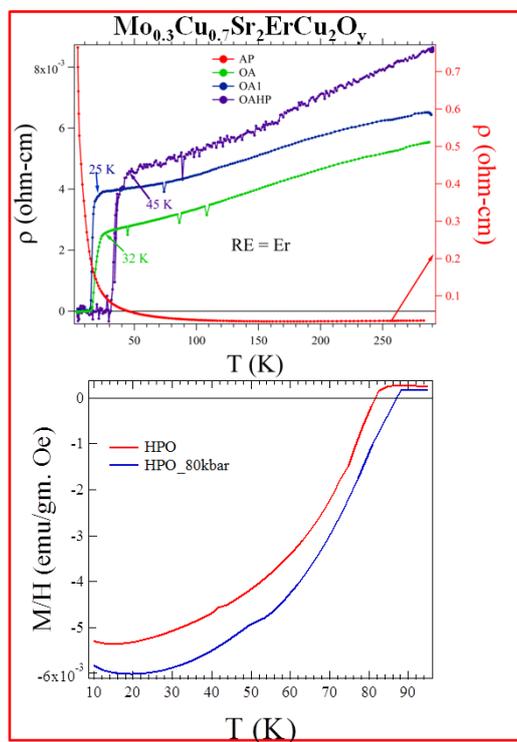


Figure 1. Temperature dependence of resistivity and magnetic susceptibility for the $\text{Mo}_{0.3}\text{Cu}_{0.7}\text{Sr}_2\text{ErCu}_2\text{O}_y$ samples. The superconducting transitions are highlighted.

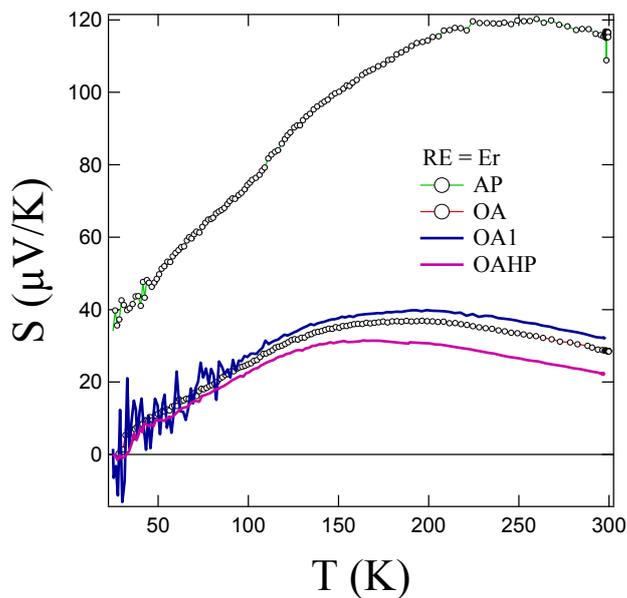


Figure 2. Temperature variation of thermo electric power (TEP) for the $\text{Mo}_{0.3}\text{Cu}_{0.7}\text{Sr}_2\text{ErCu}_2\text{O}_y$ samples.

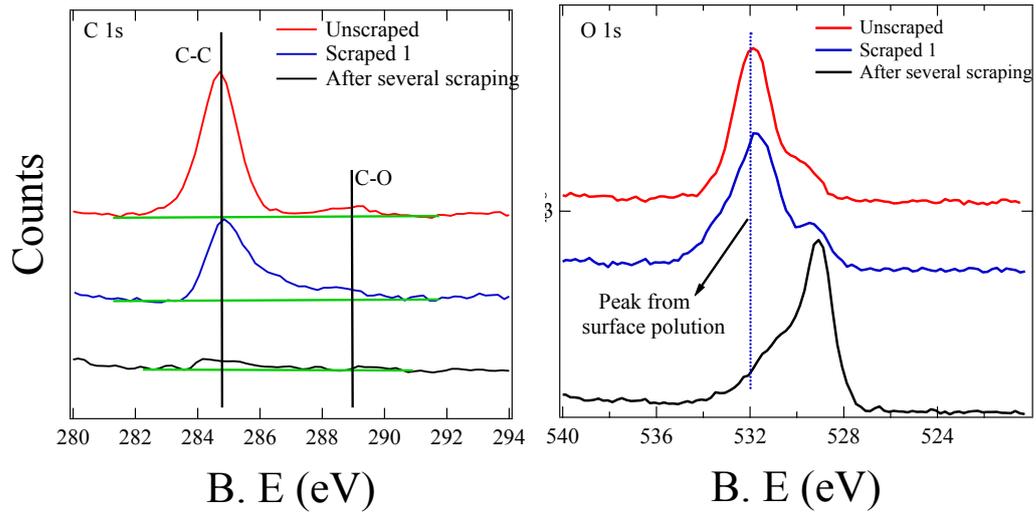


Figure 3. C 1s and O 1s core level XPS spectra for the AP material before and after several scrapings at room temperature in the ultra-high vacuum.

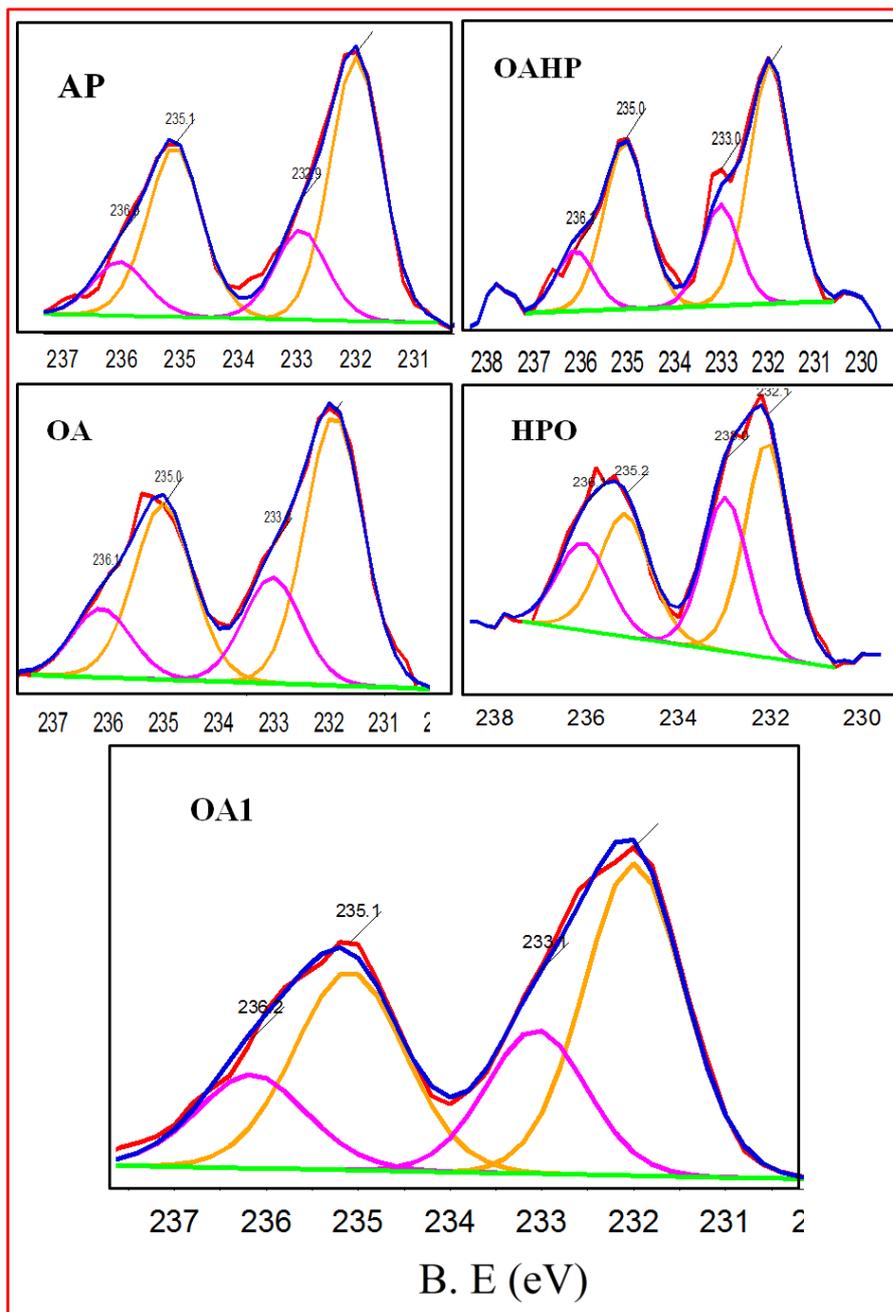


Figure 4. Fitting of the core level Mo 3d energy region for $\text{Mo}_{0.3}\text{Cu}_{0.7}\text{Sr}_2\text{ErCu}_2\text{O}_y$ samples.

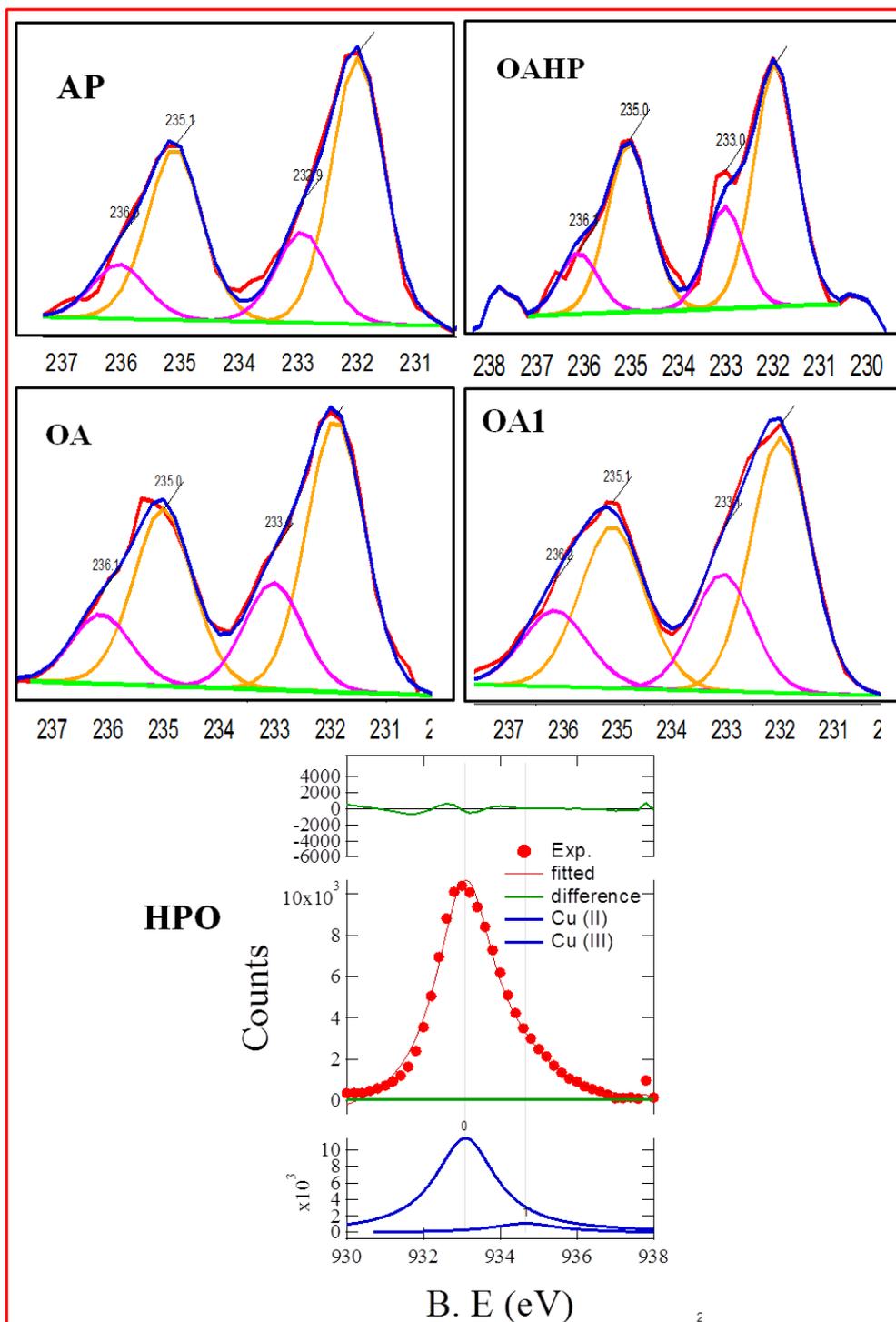


Figure 5. Fitting of the core level Cu 2p energy region for $\text{Mo}_{0.3}\text{Cu}_{0.7}\text{Sr}_2\text{ErCu}_2\text{O}_y$ samples.