Coverage evaluation of active material by NanoSIMS

The NanoSIMS 50L can provide the highest lateral resolution among secondary ion mass spectrometry and can simultaneously achieve high sensitivity and high mass resolution. Here, we introduce example of LTO thin layer coated on LCO powder using NanoSIMS.

What is NanoSIMS ?



LTO seems to cover almost of LCO powder surface in sample "LTO thick". Meanwhile, LTO layer partially disappears in sample "LTO thin", suggesting LTO layer is not coated or may be thin.

NanoSIMS allows us to evaluate coverage of coating layer on powder sample.

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(20mm □)