

APPLICATION NOTE

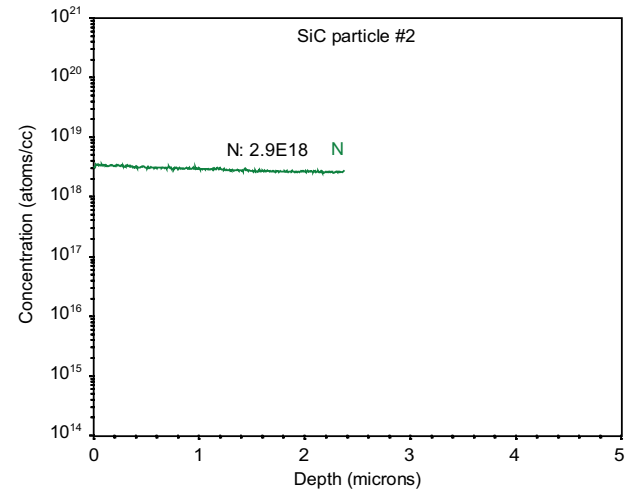
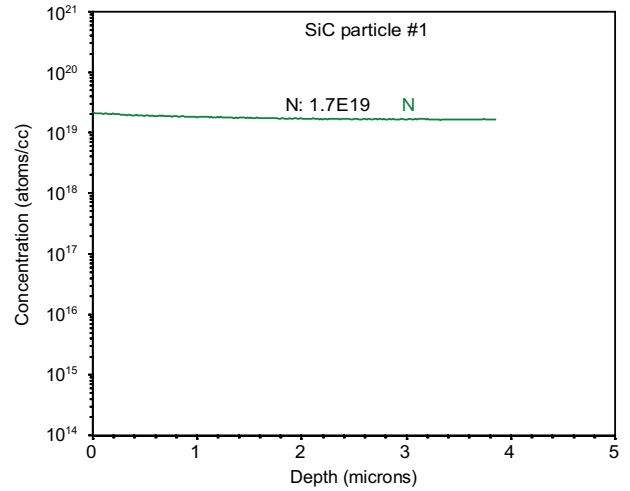
SIMS Analysis of Individual SiC Particles for Accurate Bulk Concentration Measurement

DISCUSSION

Using a special sample preparation technique and a new SIMS analytical protocol, individual SiC particles with a size ranging from 100 μm to 500 μm in a SiC powder sample can be analyzed. This innovative approach eliminates contributions from surface contamination to bulk concentration.



Powder Size: 100-500 μm



N profiles for two different SiC particles from the same batch of powder samples. The SIMS results for these two particles show good batch bulk concentration consistency.