

# Specimen drift

The specimen drift is determined by taking the cross correlation of five images that are taken 1 minute apart. Before doing the measurement, the microscope has been operating at the maximum high tension for at least 12 hours and the cold trap has been cooled with liquid nitrogen for at least 2 hours. The specimen holder has been inserted for at least 40 minutes. The drift is measured at least 2 minutes after repositioning the specimen (maximum movement 20  $\mu\text{m}$ ) and adjusting to the final magnification (within Mh range).

## Microscope settings

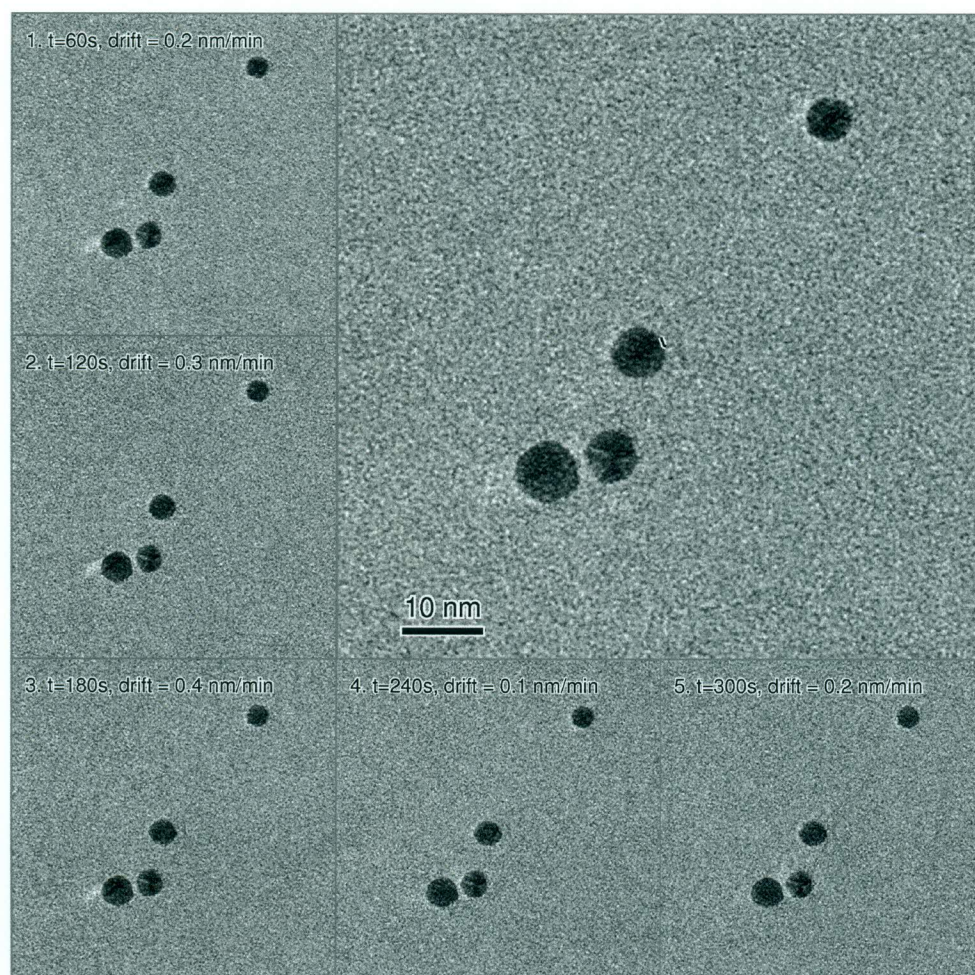
Spot size 3  
C2 aperture 100  $\mu\text{m}$   
Magnification around 200kx for at least 40 minutes

## Specification

Specimen drift  $\leq 1$  nm/min

## Results

Measured specimen drift: 0.24 nm/min



Images of specimen drift measurement. The measured drift rate is mentioned in the figures.