Supporting information for

Characterising the size and shape of metallic nano-structures by their acoustic vibrations

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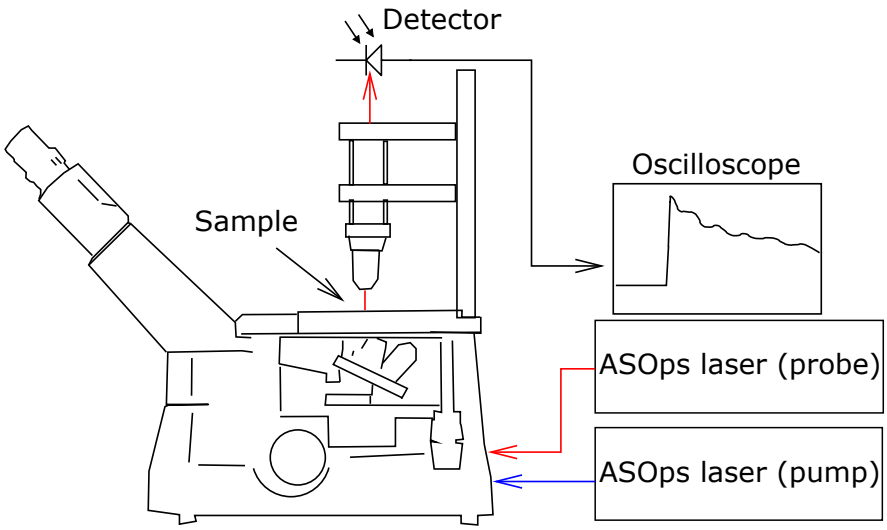

Figure 1 Schematic of the experimental set-up based on a inverted conventional microscope. Pump and probe wavelengths are 415 and 780 nm, respectively.

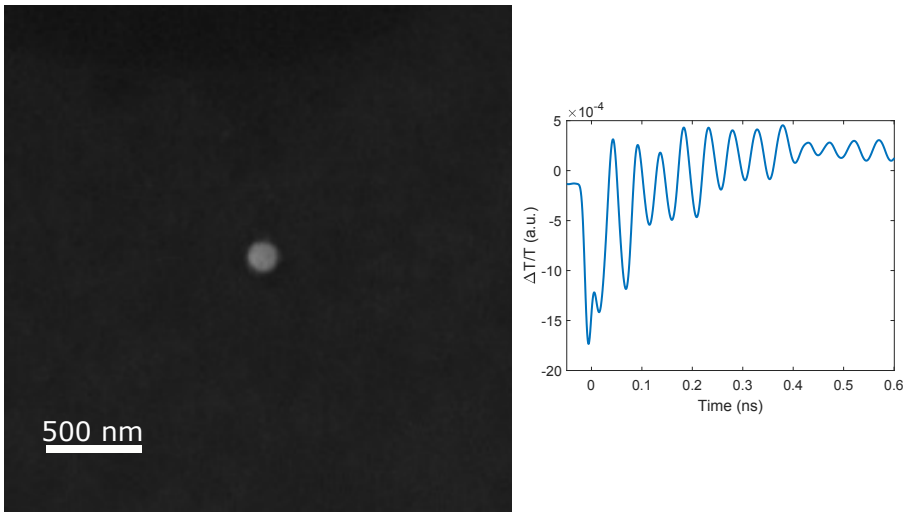

Figure 2 Size and shape characterisation of the SEM (left) where the experimental trace measures a 153 nm sphere.

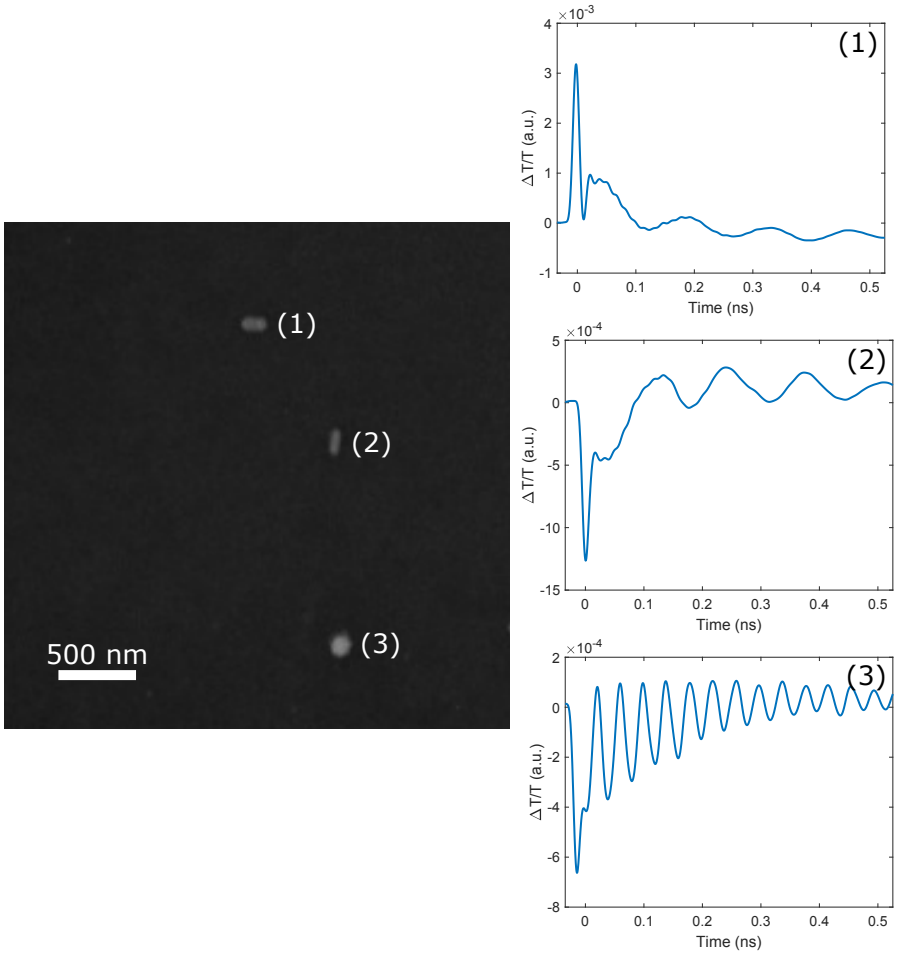

Figure 3 Size and shape characterisation of the SEM (left). (1) is a 140×46 nm rod. (2) is a 110×36 nm rod. (3) is a 126 nm sphere.

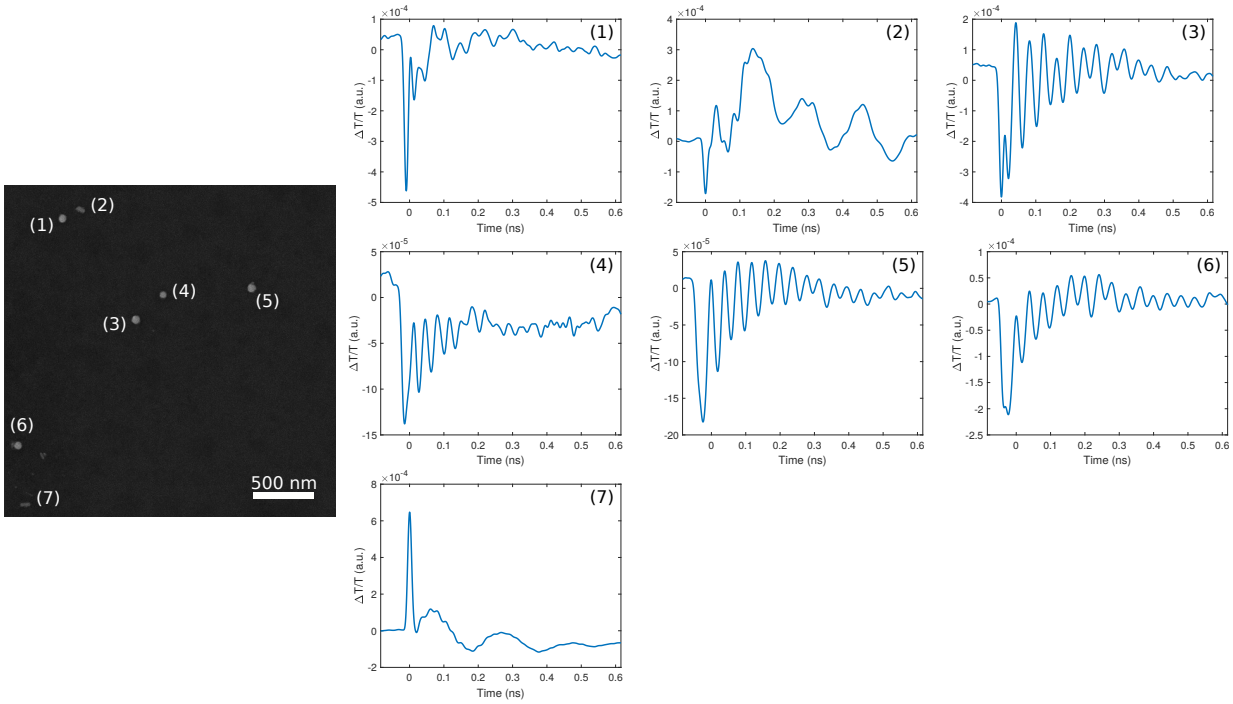

Figure 4 Size and shape characterisation of the SEM (left). (1) is a 128 nm sphere. (2) is a 120×58 nm rod. (3) is a 130 nm sphere. (4) is a 111 nm sphere. (5) is a 128 nm sphere. (6) is a 127 sphere. (7) is a 150×34 rod.