

multilayers onto these self-organised semiconductor substrates. Besides their higher magnetic hardness, these multilayers exhibit perpendicular magnetization, which makes them advantageous candidates for magnetic recording media due to the increased signal-to-noise ratio for readout. The first, tentative results along this line are presented and discussed.

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References:

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Figures:

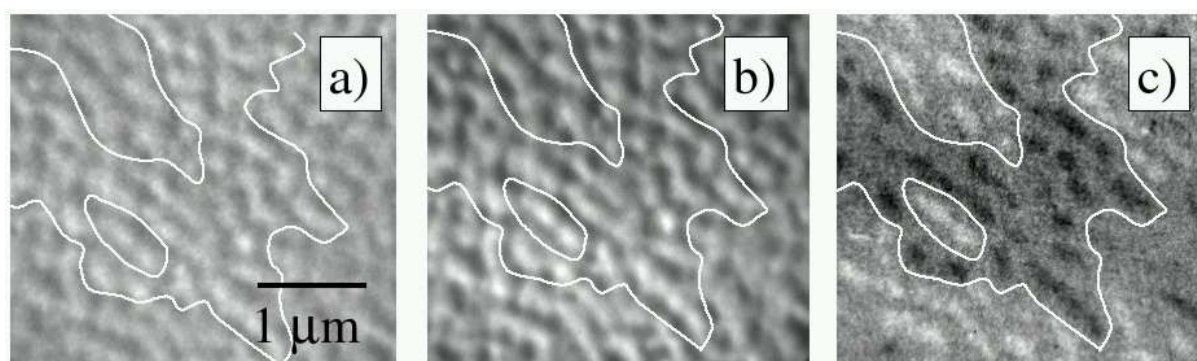


Figure 1: (a) Low Energy Electron Microscopy (LEEM), (b) X-Ray Photoemission Electron Microscopy (XPEEM) and (c) XPEEM with X-Ray Magnetic Circular Dichroism (XMCD) images of a 6.5 ML Co layer deposited at room temperature and grazing incidence. The LEEM image is only sensitive to the surface topography while the XPEEM image shows that the spatial distribution of the deposited Co follows the surface template. Finally, XMCD provides magnetic contrast and reveals that the dots are ferromagnetic at room temperature and coupled forming micrometer-sized domains.