

Supporting Information

for

Influence of dielectric layer thickness and roughness on topographic effects in magnetic force microscopy

Alexander Krivcov, Jasmin Ehrler, Marc Fuhrmann, Tanja Junkers and Hildegard Möbius

Beilstein J. Nanotechnol. 2019, 10, 1056–1064. doi:10.3762/bjnano.10.106

Additional experimental details

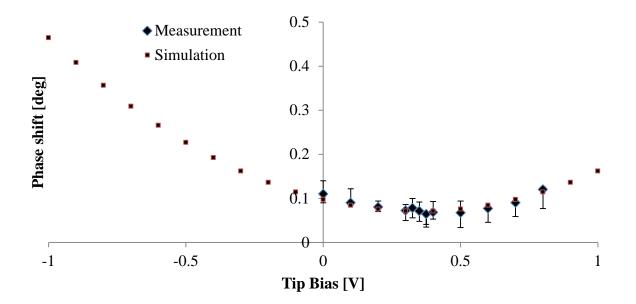


Figure S1: Measured and simulated EFM curve for silicon substrate with ASYMFM-HM tip taken at 20 nm lift height. The contact potential difference between the tip and the substrate is determined to be 0.35 ± 0.05 V.

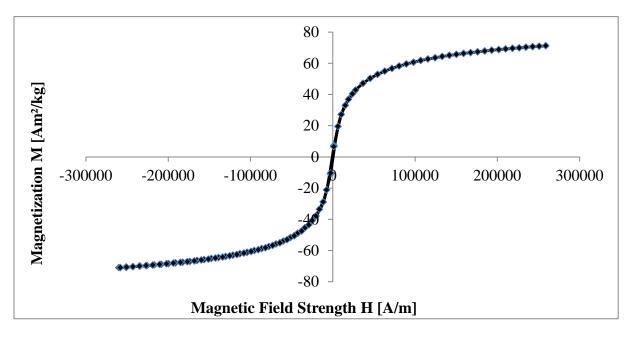


Figure S2: Vibrating sample magnetometer (VSM) measurement of superparamagnetic iron oxide nanoparticles (SPIONs) with 10 nm diameter.

Table S1: Layer thickness for resist with different degree of dilutions at 3000 rpmrotation speed.

dilution	layer thickness
resist/thinner	[nm]
1:1	380 ± 12
6:7	300 ± 10
5:7	245 ± 8
4:7	200 ± 5
3:7	165 ± 3
2:7	90 ± 2
1:7	25 ± 1