Supporting Information for:

Magnetic Iron Oxide Nanoparticles for Bio-recognition: Evaluation of Surface Coverage and Activity

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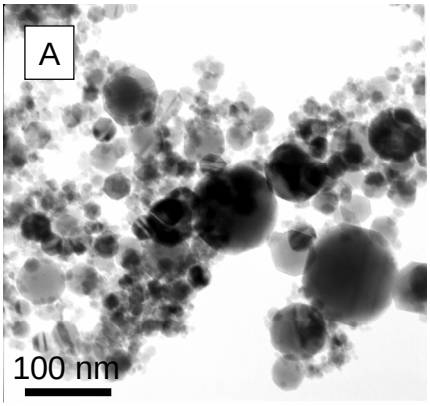
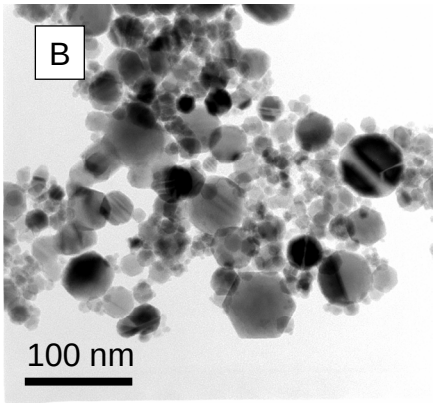
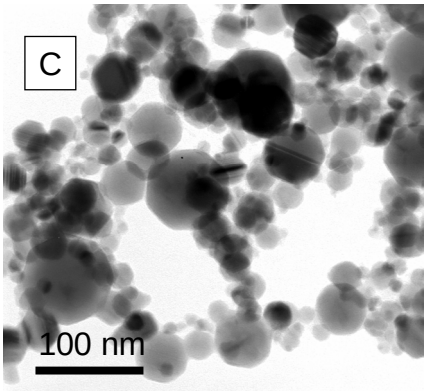
TEM Images: Transmission electron microscopy images for bare γ-Fe_2O_3 nanoparticles (A), APTES modified nanoparticles (B), and anti-mouse IgG modified nanoparticles (C) were acquired and are shown below.







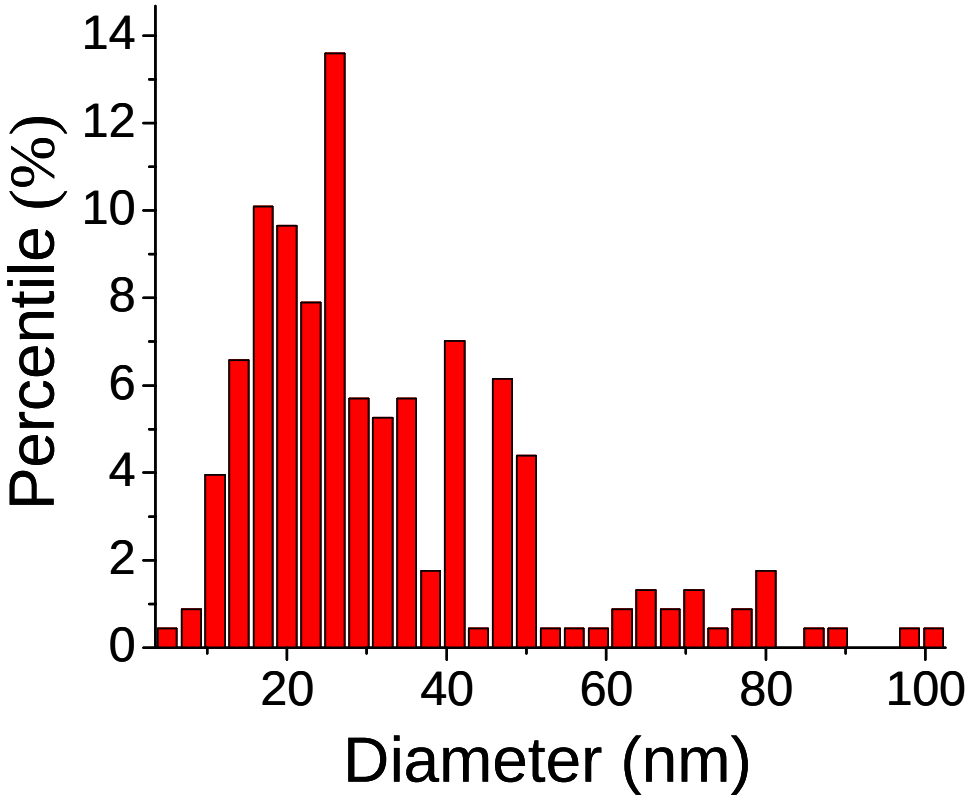
Particles were suspended in PBS (pH 7.4) before being loaded on a TEM grid

A: bare γ-Fe_2O_3

B: APTES-modified γ-Fe_2O_3

C: γ-Fe_2O_3 immobilized with anti-mouse IgG

Particle size distributions were created from the TEM images and were invariant with surface preparation. The size distribution constructed from TEM images of bare nanoparticles is shown below.


Percentile (%)
0
2
4
6
8
10
12
14
20
40
60
80
100
Diameter (nm)