

FUNCTIONALIZED MAGNETIC NANOMATERIAL (F-MNPs) STABILIZED WITH AMMONIUM HYDROXIDE:

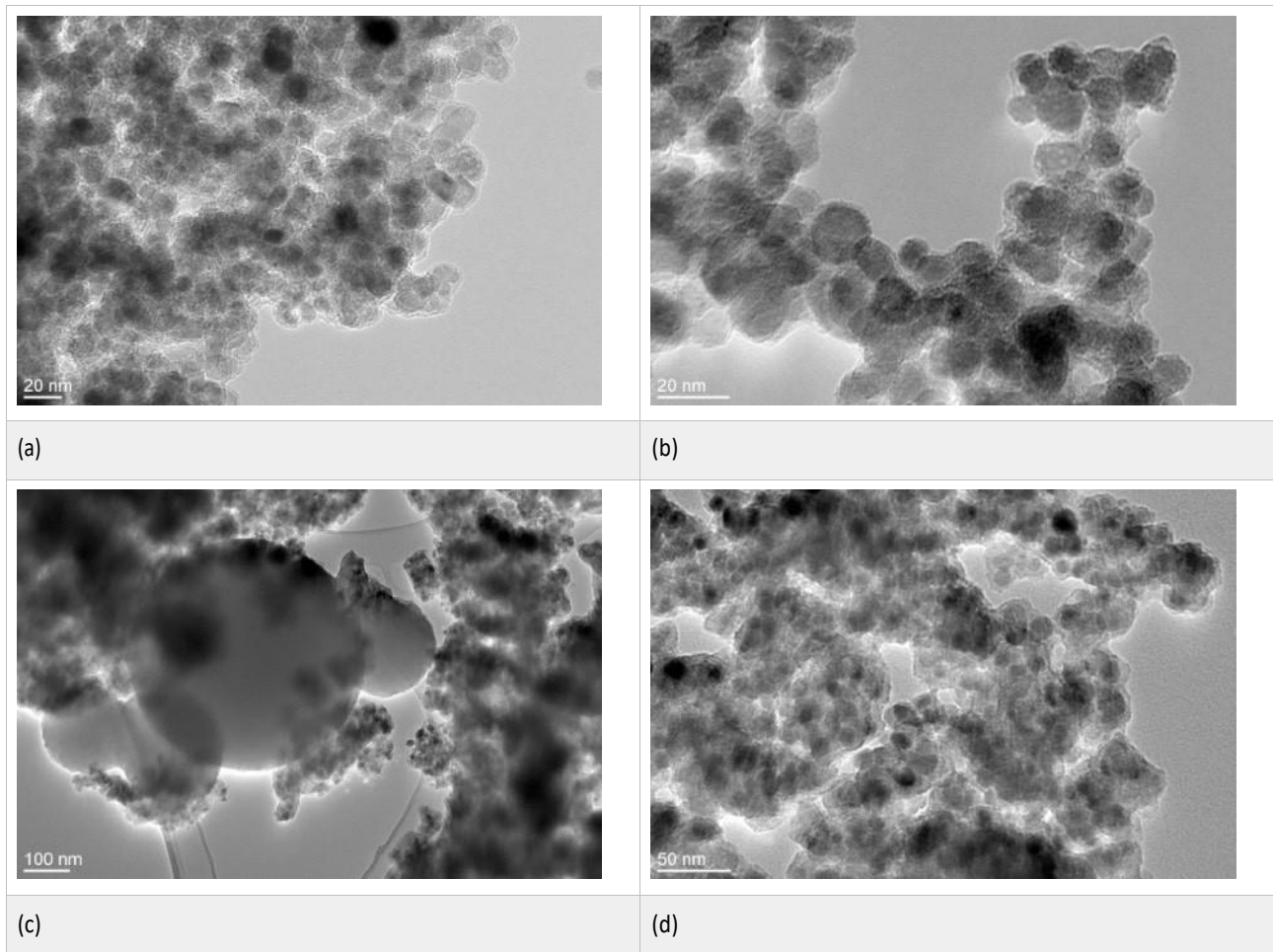


Figure 1: **TEM images of amino-functionalized maghemite nanoparticles** prepared in “**lab-scale**” mode with TEOS / APTMS combination **after electrostatic stabilization with ammonia**, and after
a) basic procedure,
b) procedure with 2x reduced TEOS content in the reaction mixture,
c) procedure with 2x increased TEOS content in the reaction mixture,
d) the procedure with increased water content (76%) in the reaction mixture, and under constant all other conditions.

FUNCTIONALIZED MAGNETIC NANOMATERIAL (F-MNPs) STABILIZED WITH CITRIC ACID:

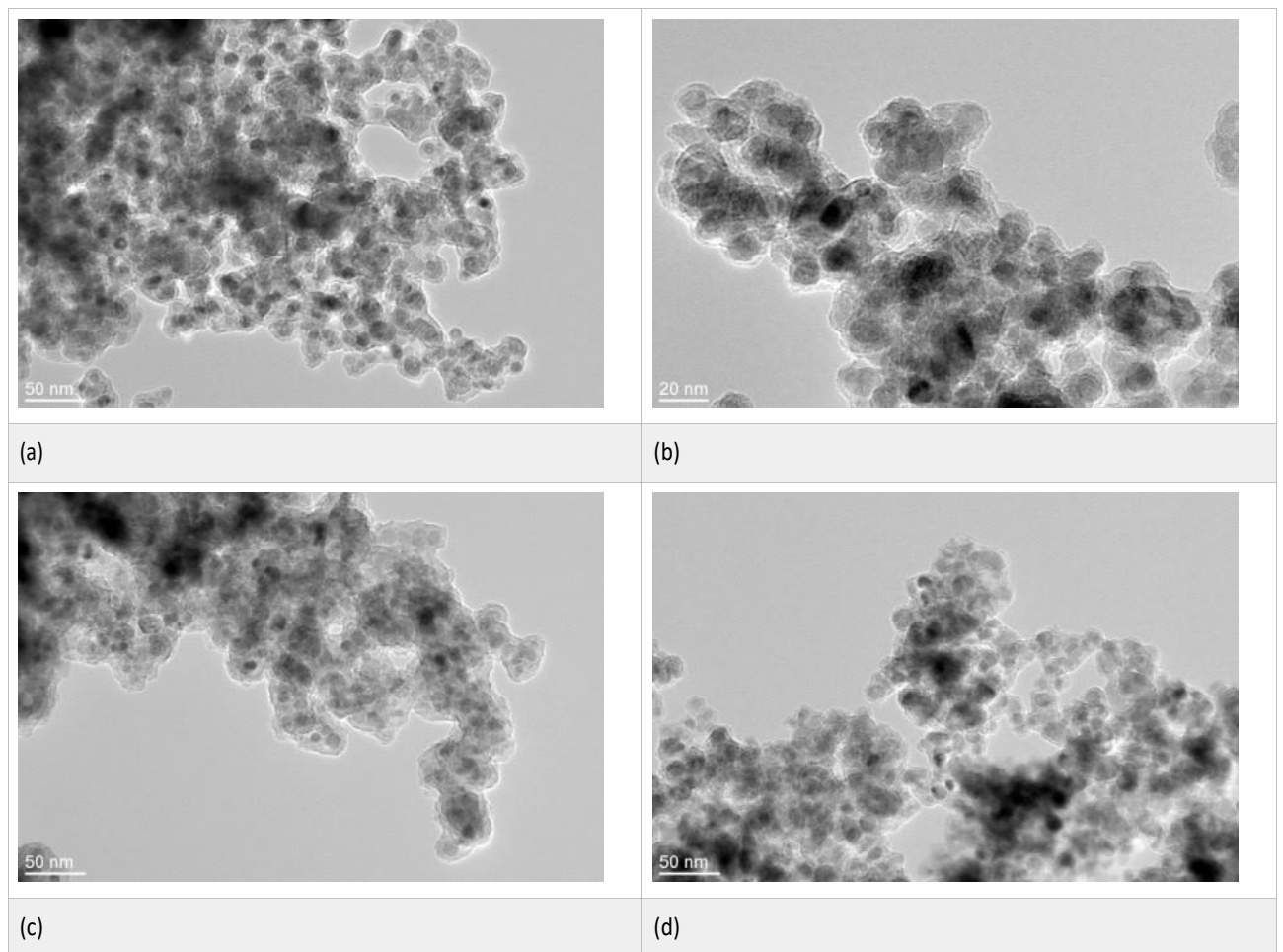


Figure 2. TEM images of amino-functionalized maghemite nanoparticles prepared in “lab-scale” mode with TEOS / APTMS combination after electrostatic stabilization with citric acid, and after a) basic procedure, b) procedure with 2x reduced TEOS content in the reaction mixture, c) procedure with 2x increased TEOS content in the reaction mixture, d) procedure with reduced water content (76%) in the reaction mixture, and under constant all other conditions.