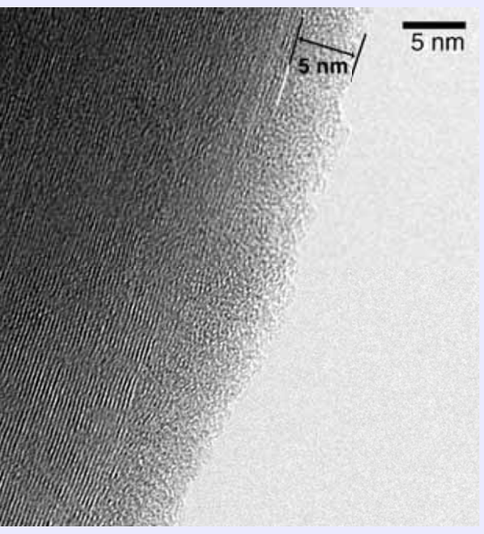
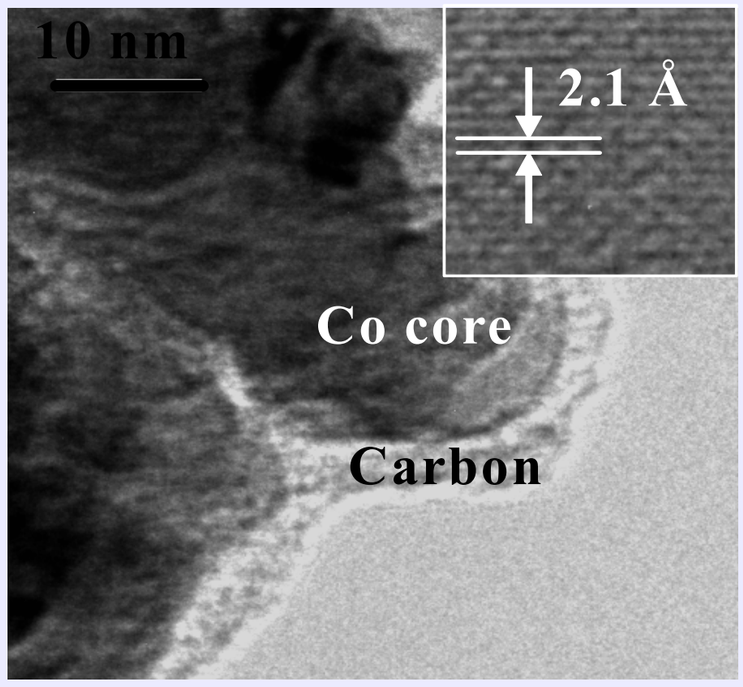



n of $(Cu\text{-}C{\equiv}C\text{-}{}^{t}Bu)_{24}$



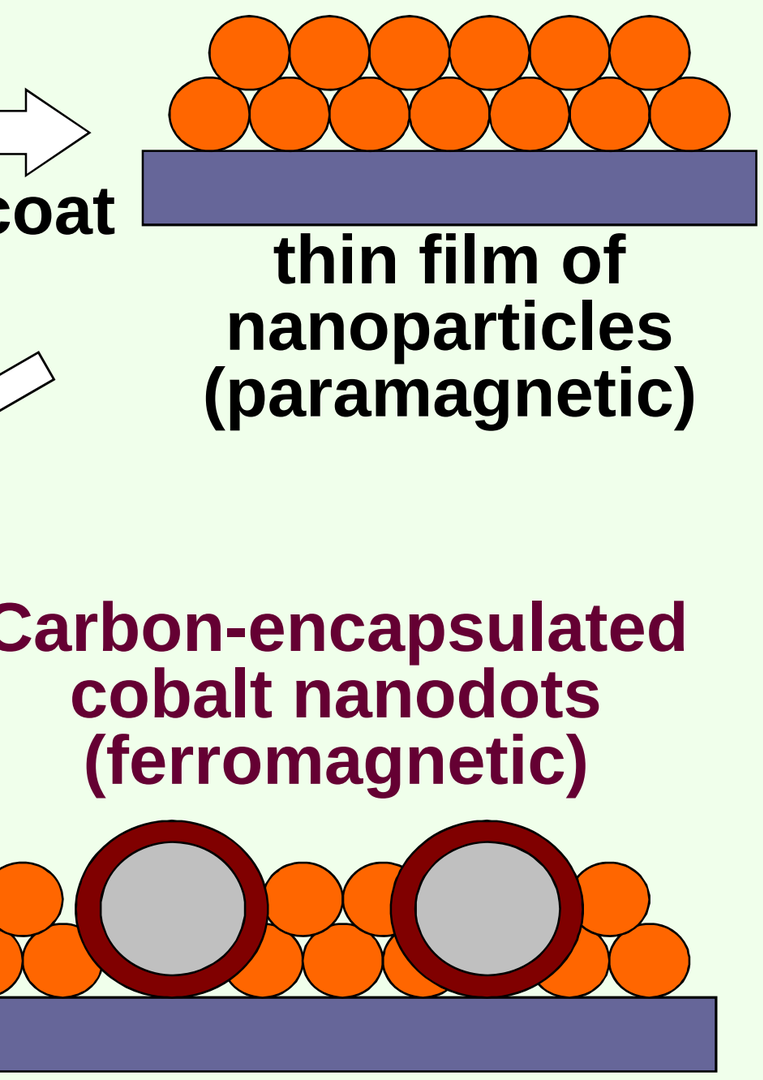

Air-stable carbon-encapsulated cobalt nanoparticles from $CoC_2$

**Air-stability** is extremel
High surface-area ratio
for applications.

If we can develop the m
nanostructures as w
application of nanostr
magnetic storages and

# evelop the method to draw "air-stabl

ctron beam

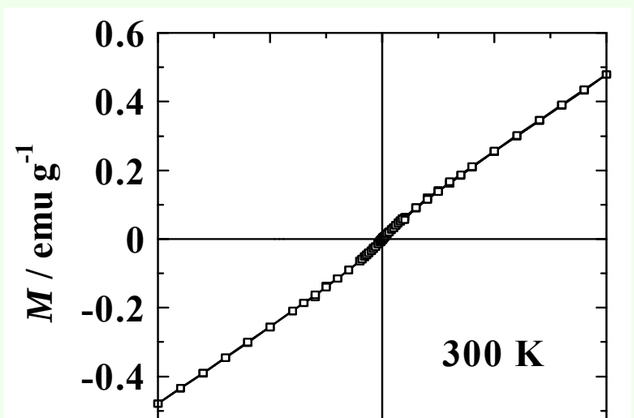


coat

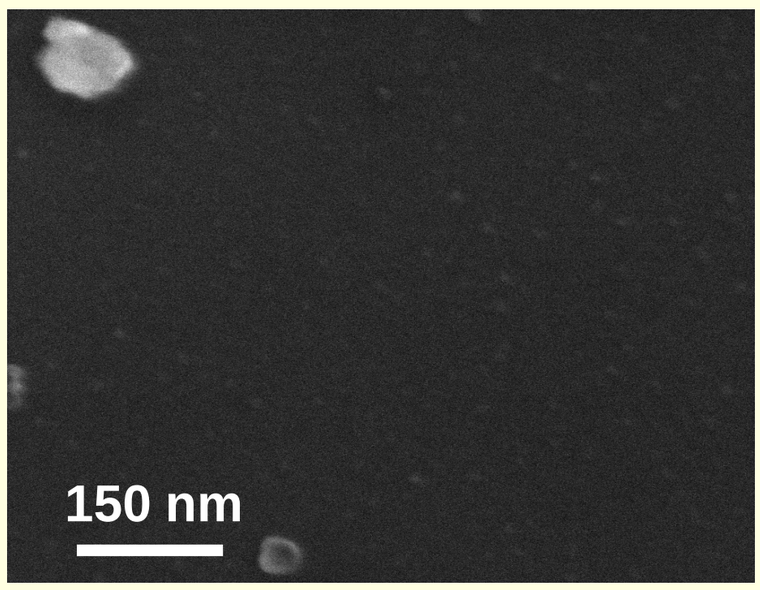
thin film of nanoparticles (paramagnetic)

Carbon-encapsulated cobalt nanodots (ferromagnetic)

ISO (100 °C, 48 h)



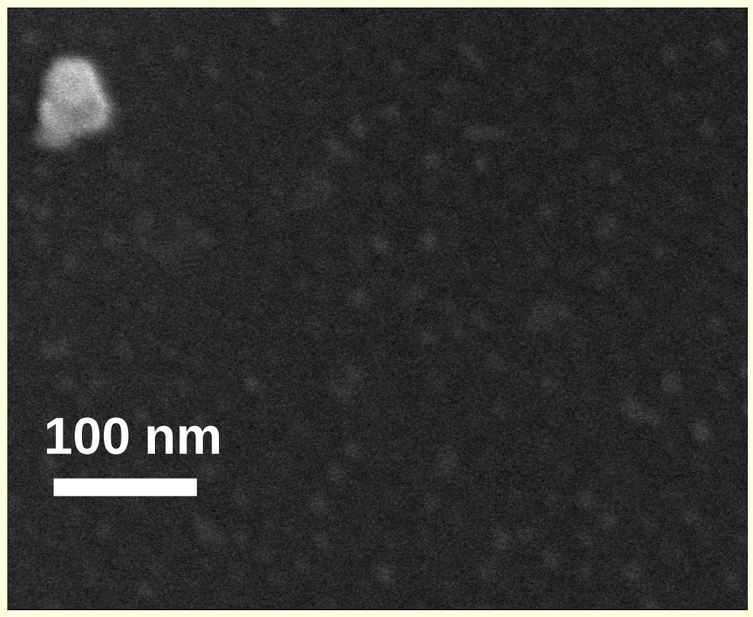

OK, let's try drawing the nanodots by

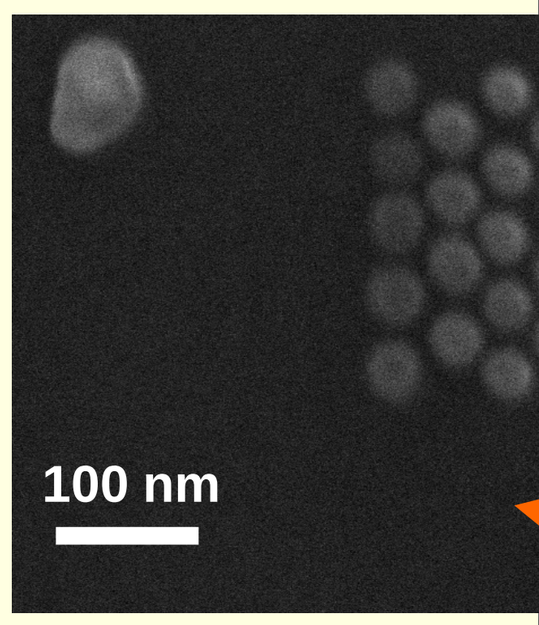



Si substrate covered with small Co-C nanoparticles (initial state)

Electron beam of SEM


carb
c




Control experiment (without nanoparticles