Shape-Controlled Synthesis of Magnetic Nanoparticles by Co-precipitation Method

<u>안태빈</u>, 김종훈, 양희만, 김종득* 한국과학기술원 (kjd@kaist.ac.kr*)

Recently, magnetic nanoparticles have gained a lot of attention due to their technological and scientific importance. A number of strategies have been developed to prepare magnetic nanoparticles. These include "hot injection" method, "heating-up" method, and "aqueous precipitation" method. However, there is little information on the synthesis of shape-controlled magnetic nanoparticles by "aqueous co-precipitation" method.

In this study, we show that controlling of the reaction conditions allows one to control the shape and crystallinity of magnetic nanoparticles.