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The Editor-in-Chief of *Langmuir*, in consultation and agreement with one of the authors of the article, retracts the article “Development of Fe/Fe₃O₄ Core–Shell Nanocubes as a Promising Magnetic Resonance Imaging Contrast Agent” on the basis of questions related to the integrity, quality, and reproducibility of the TEM image in Figure 1b of the article. The decision to retract the article was made after failure to obtain convincing raw data and images associated with Figure 1b from the authors of the article and following consultation with independent experts in electron microscopy. The questions about Figure 1 also raise questions about the conclusions within the paper.