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MAGNETIC NANOPARTICLES: TYPES, CHARACTERISTICS AND APPLICATIONS

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خلاصه مقاله:
Metallic nanoparticles display fascinating properties that are quite different from those of individual atoms, surfaces or bulk materials. They have larger magnetization compared to metal oxides. This advantage makes them interesting for fundamental science and many applications such as magnetic data storage, medical applications and ferrofluoids. However the drawback is that they are not air stable and are also easily oxidized which results in the change or loss of their magnetization. In this paper three main categories of the metallic magnetic nanoparticles (Fe, Co, and Ni) with their advantages/disadvantages and some of the main applications have been discussed. It has been found that magnetic nanoparticles can be used to indicate/detect some diseases such as an Alzheimer

کلمات کلیدی:
Co, Fe, Ni, Ferrofluoid, Magnetic data storage, Magnetic nanoparticles

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