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Improved Performance of Assemblies of Magnetic Nanocrystals for Heat Delivery and Magnetic Guidance Applications

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Nanoparticles of magnetic materials are very useful in different bio-related applications, on which the combination of chemistry and magnetic performance will determine their final purpose. Two examples of magnetic nanoparticles synthesized and manipulated by wet-chemistry methods will be detailed to demonstrate how to exert control over the final magnetic behavior and over their ultimate functionalities, considering heat delivery or magnetic guidance of self-propelled swimmers.

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