

Different Methods of Fe₃O₄ Nano Particles Synthesis

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Abstract : Herein, we comparison synthesized Fe₃O₄ using, hydrothermal method, Mechanochemical processes and solvent thermal method. The Hydrothermal Technique has been the most popular one, gathering interest from scientists and technologists of different disciplines, particularly in the last fifteen years. In the hydrothermal method Fe₃O₄ microspheres, in which many nearly monodisperse spherical particles with diameters of about 400nm, in the mechanochemical method regular morphology indicates that the particles are well crystallized and in the solvent thermal method Fe₃O₄ nanoparticles have good properties of uniform size and good dispersion.

Keywords : Fe₃O₄ nanoparticles, hydrothermal method, mechanochemical processes, solvent thermal method

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