

Ni Fe₂O₃ Magnetic Composite Synthesized By Mechanical Alloying
Book



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Ni Fe₂O₃ Magnetic Composite Synthesized

The purpose of our investigation is to study the structure and magnetic properties of nanocomposites of Ni/Fe₂O₃ synthesized by mechanical alloying and subsequent heat treatment. Structure and magnetic properties are reported in this paper.

Ni/Fe₂O₃ magnetic composite synthesized by mechanical ...

Mechanical alloying of Ni and Fe₂O₃ resulted in the formation of a disordered structure, when only broadened X-ray diffraction peaks corresponding to wüstite appeared. After annealing at 500–900°C, a nanocomposite mixture of ferrite and (Ni, Fe) was formed. The investigation showed that Fe atoms concentrated in the ferrite phase, while the intermetallic structure was Ni-rich.

Ni/Fe₂O₃ magnetic composite synthesized by mechanical ...

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Ni/Fe₂O₃ magnetic composite synthesized by mechanical ...

metric C₃/O stretch), 1380 cm⁻¹ (C–N stretch), 1120. cm⁻¹ and 740 cm⁻¹ (imide ring deformation). Compared to the spectra of these samples, the absorption bands at 1713 cm⁻¹, 1404 cm⁻¹ layer of PI and with a thickness of about 6 nm.

One-step synthesis and magnetic ... The Author(s) 2016 ...

Novel magnetic g-C₃N₄/α-Fe₂O₃/Fe₃O₄ composite for the very effective visible-light-Fenton degradation of Orange II Zhuliang Wang,ab Yiping Fan,a Rong Wu,a Yaoxing Huo,a Hao Wu, *ab Fang Wangab and Xiaohong Xu *ab A novel magnetic heterogeneous g-C₃N₄/α-Fe₂O₃/Fe₃O₄ catalyst was successfully synthesized through a simple hydrothermal method.

Novel magnetic g-C₃N₄/α-Fe₂O₃/Fe₃O₄ composite for the very ...

Magnetic nanofibers of ZnFe₂O₄/γ-Fe₂O₃ composite were synthesized by electrospinning from a sol-gel solution containing a molar ratio (Fe/Zn) of 3.

Synthesis and characterization of magnetic ZnFe₂O₄ /γ ...

Monodisperse Fe₃O₄ and γ-Fe₂O₃ magnetic mesoporous microspheres are prepared via a surfactant-free solvothermal combined with precursor thermal transformation method. The as-prepared Fe₃O₄ and γ-Fe₂O₃ magnetic mesoporous microspheres have a relatively high specific surface area of 122.3 and 138.6 m²/g, respectively.

Monodisperse Fe₃O₄ and γ-Fe₂O₃ Magnetic Mesoporous ...

other magnetic materials can replace the ferrites due to their low price, availability, stability and have an extensive use of technological application in transformer, high quality filters, high and very high frequency circuits and operating devices.

Magnetic properties of Sn-substituted Ni-Zn ferrite ...

Fe-Ni@ SiO₂core-shell structured micrometer spherical particles with nanometer thick SiO₂ shell were fabricated by a facile wet chemical process, their compositions and mechanisms were investigated using x-ray diffraction and Fourier transform of infra-red spectra, and their microstructures and magnetic properties were analyzed by high-resolution transmission electron microscopy and ...

SiO₂-Coated Fe-Ni Alloy Core-Shell Structures Synthesized ...

The Ni-graphite composite exposed the magnetic behaviors which are attributed to Ni component. The magnetic properties of composite had the improvement from 10.2 emu/g for the as-exploded powders to 15.8 emu/g for heat-treated powders and 49.16 emu/g for sintered samples.

Phase Structures and Magnetic Properties of Graphite ...

We have explored the synthesis of iron oxide particles, tubes, and fibrils within the pores of nanoporous polycarbonate and alumina membranes. The membranes contain uniformly distributed cylindrical pores with monodispersed diameters (varying between 20 and 200 nm) and thicknesses of 6 and 60 μm , respectively. By hydrolysis and polymerization of iron salts, particles of different sizes and ...

Synthesis, Morphology, and Magnetic Characterization of ...

DC electrical resistivity of the synthesized material was measured with respect to temperature by the two-probe method from 28° to 225°C. Room temperature resistivity of the nanopowder was $\sim 10^8 \Omega \cdot \text{cm}$. Magnetic hysteresis measurement revealed that the synthesized $\alpha\text{-Fe}_2\text{O}_3$ nanopowder exhibited ferromagnetic behavior at room ...

DC Electrical Resistivity and Magnetic Property of Single ...

A novel hierarchical heterostructures based on $\alpha\text{-Fe}_2\text{O}_3/\text{NiO}$ nanosheet-covered fibers were synthesized using a simple two-step process named the electrospinning and hydrothermal techniques.

A two-step synthesis of nanosheet-covered fibers based on ...

The experimental results showed that the paramagnetic amorphous precursor, in which $\text{Ni}(\text{OH})_2$ is formed outside FeOOH , is transformed to ferrimagnetic $\gamma\text{-Fe}_2\text{O}_3/\text{Ni}_2\text{O}_3$ composite when it is processed in FeCl_2 solution (0.25, 0.50, 1.00 M) in an autoclave at 100°C for 1 hr.

Preparation of $\gamma\text{-Fe}_2\text{O}_3/\text{Ni}_2\text{O}_3/\text{FeCl}_3(\text{FeCl}_2)$ Composite ...

The study for the extraction of nickel (Ni^{2+} ions) from aqueous solution by applying surface modified molecularly imprinted ferrite nanomaterials as an adsorbent. Molecularly imprinted ferrite nanoparticles were synthesized by co-precipitation method, using ferrous and ferric salts in basic medium.

Synthesis and characterization of molecularly imprinted ...

33 Magnetite: Properties, Synthesis, & Application Lee Blaney SYNOPSIS The subsequent report presents scientific data concerning properties of micro- (diameter in 10⁻⁶ m meter range) and nano- (diameter in 10⁻⁹ m meter range) magnetite, an iron oxide with chemical structure Fe_3O_4 , particles; additionally, the properties of nano-particulate magnetite are

Magnetite (Fe_3O_4): Properties, Synthesis, and Applications

Magnetic Reduced Graphene Oxide-Nickel/ NiFe_2O_4 (RGO-Ni/NF) nanocomposite has been synthesized by one pot solvothermal method. Respective phase formations and their purities in the composite are confirmed by High Resolution Transmission Electron Microscope and X Ray Diffraction, respectively.

Anomalous magnetic behavior in nanocomposite materials of ...

Preparation, properties, and applications of magnetic-graphene-based nanocomposites are reviewed. Graphene magnetic nanocomposites include those on the basis of elemental metals (Fe, Co, Ni), magnetic nanoclusters, various morphological forms of iron oxides (Fe_2O_3 , Fe_3O_4), ferrites MFe_2O_4 , 3D ...

Magnetic-Graphene-Based Nanocomposites and Respective ...

$\alpha\text{-Fe}_2\text{O}_3$ /reduced graphene oxide ($\alpha\text{-Fe}_2\text{O}_3/\text{RGO}$) composite has been synthesized by a facile hydrothermal method. $\text{Fe}(\text{OH})_3$ sol is creatively employed as the precursor and no nucleating agent is employed to help Fe^{3+} change to $\text{Fe}(\text{OH})_3$. In the hydrothermal process, $\text{Fe}(\text{OH})_3$ sol transforms to $\alpha\text{-Fe}_2\text{O}_3$ particles and GO

Synthesis of $\alpha\text{-Fe}_2\text{O}_3$ nanoparticles from $\text{Fe}(\text{OH})_3$ sol and ...

Abstract In this study, a novel magnetic Fe_3O_4 /sepiolite composite (MFSC) was synthesized via chemical co-precipitation method. The synthesized MFSC was characterized by the several kinds of

methods. The characterization results showed that MFSC was composed of Fe₃O₄ nanoparticles on the surface of sepiolite. Moreover, MFSC was used as an adsorbent for the removal of Eu(III) from aqueous solutions.

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