



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2013_IRJPAC_7595
Title of the Manuscript:	Structural characterization of Fe-Ag bimetallic nanoparticles synthesized by chemical reduction
Type of the Article	Short Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments		
Optional/General comments	This manuscript reported a Fe-Ag bimetallic nanoparticles synthesized by chemical reduction 1. Title of the article and the content does not match. 2. Some discussion on the advantages and disadvantages of this analytical method with respect to other possible methods is required. 3. The English is a little variable in places and needs some revision.	1. In this article, first the synthesis method is described, which in this case is chemical reduction by NaBH₄, then the results from the structural characterization of nanoparticles are discussed, correlating them with the specific conditions of chemical synthesis (molar concentration, and relationships between concentrations of the reagents used), so I think that the title ("Structural characterization of Fe-Ag bimetallic nanoparticles synthesized by chemical reduction") and content of the article, are compatible 2. There are various methods of synthesis of bimetallic nanoparticles, however a very effective method for the production methods of these particles is specifically "magnetron sputtering with subsequent in-flight annealing" which compared with our method used has significant economic advantages in production, in our case, the reactions are carried out at room temperature, a decrease in embodied energy and less use of specialized



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		equipment. On the other hand, these particles have multifunctional properties with various diagnostic and therapeutic applications in biomedicine. Additionally, shows a superparamagnetic behavior and exhibit significant antibacterial and antifungal activities against a variety of microorganisms including disease causing pathogens, as well as prolonged action and high efficiency of phosphorus removal. 3.- The English have been carefully reviewed and consider it acceptable for a scientific paper , and any specific grammatical suggestions can meet them gladly
		We appreciate all your comments and consider their professionalism and objectivity