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Golden Research Thoughts

This is to certify that our Editorial, Advisory, and Review Board Accepted Research Paper of Dr. /Shri. /Smt.: **Vinod Tukaram, Dhanraj. R. mane , Ramkrishna H Kadam and Ankush B Kadam** Topic:- **Impact Of Aluminium And Zinc Substitution On The Structural And Magnetic Properties Of Sol-gel Auto Combustion Derived Nanosized Co-ni-zn Mixed Ferrites** College:- **Jawahar Arts, Science and Commerce college, andur, Tuljapur, Osmanabad, Maharashtra** The Research paper is Original & Innovative it is Done Double Blind Peer Reviewed. Your Article is Published in The Month of **January** Year 2015



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Review Editor

How to Write Articles-

Here are a few basic steps to take to craft an interesting, informative article.

Method 1 of 3: Come Up With An Idea

1. Get to know your audience. Decide who you need to write for before proceeding with planning or writing an article. Identify the needs of your readership. What do your readers need to know? How does your own knowledge matchup against the information they need? This will be the easiest way for you to find a topic to write about
2. Be unique. If you are writing an article about something that other people are also writing about, try to be unique in how you approach the material
3. Be passionate. You should care about the topic you choose to write about. Your enthusiasm will show in your writing and it will be much more engaging for your readers

Method 2 of 3: Research Your Idea

1. Learn the basics. Get the general explanation of whatever you are trying to write about. This will give you a basic framework for what to look for as you research.
2. Find reliable sources. Now that you know what to look for, research your topic. You can use the internet, a library, conduct interviews, watch documentaries, or whatever you feel is appropriate to teach you everything you need to know about your topic. Be an expert!
3. Get different types of material. During your research, look for material that isn't text. This can be used or altered to add to your article.

Method 3 of 3: Write Your Article

1. Decide your length. Does this article have a word count? Do you need to fill a certain number of pages? Consider what type of content you're writing about and how much space that can fill, as well as how much needs to be written in order to cover the topic adequately, before proceeding with writing your article.
2. Outline your article. Before you begin formal writing, you will want to outline your article.
3. Edit your work. Before you submit your work, you will want to do some editing and revision. If time allows, wait for a day or two before editing
4. Respect the rights of other writers. If you are using information from an external source, be sure to cite the source at the bottom of the article.
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ABSTRACT:

Nano-crystalline ferrites $\text{Co}_{0.5}\text{Ni}_{0.5-x}\text{Zn}_x\text{Al}_y\text{Fe}_{2-y}\text{O}_4$ with stoichiometric proportion ($x=0.0, 0.1, 0.2, 0.3$) synthesized by the Sol-gel auto combustion method. The doping effect of Al-Zn on crystalline phase, particle size, and saturation magnetization (M_s) are investigated. The resultant powders were sintered at 800°C for 4 hours and were characterized by XRD, FTIR and VSM.

Abstract Report: The Title Accurately Said The Study was About.

INTRODUCTION:

In the recent past the research interests in nano crystalline Ferrites materials have grown considerably increased because of their large novel physical aspects [1]. Ferrites with spinel structure represent the important class of magnetic materials. The combination of structural, magnetic and electrical properties makes ferrite useful in many technological applications.

Introduction Report: This Article Include Full Introduction, Methods, Results & Introduction Section.

OVERVIEW:

- EXPERIMENTAL
- Preparation of Al-Zn substituted Co-Ni-Zn ferrites
- Instrumentation
- RESULTS AND DISCUSSIONS
- XRD Analysis
- FT-IR studies
- Magnetic properties

Overview Report: Figures are Imported to Provide Explanation for Background Information. Conclusion of This Paper Clearly Supported Results.

CONCLUSION:

Nanocrystalline Al-Zn substitution into the Co-Ni-Zn ferrites was successfully prepared using sol-gel auto-combustion technique is a convenient way for obtaining a homogeneous nano sized mixed Co-Ni-Zn ferrites. It is a very simple and economical method. X-ray diffraction pattern confirms the formation of cubic spinel structure and also observed that the lattice constant decreases with increase in Al-Zn substitution. The particle size estimated from Debye-Scherrer's formula varies in the range of 46-7nm.

Conclusion Report: The Text is Rounded off with a Conclusion that Discusses the Implication of The Findings & Ideas Discussed & Their Impact on Future Research Direction.

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Reference Report: There are Places where the Author Vinod Tukaram, Dhanraj. R. mane , Ramkrishna H Kadam and Ankush B Kadam Need to Cite a Reference, but Have Not

RECOMMENDATIONS:

Abstract Report: Introduce New Regular For Content & Communication.

SUMMARY OF ARTICLE:

	Very	High	Average	Low	Very Low
1. Interest of the topic to the readers	✓				
2. Originally & Novelty of the ideas		✓			
3. Importance of the proposed ideas	✓				
4. Timelines		✓			
5. Sufficient information to support the assertions made & conclusion drawn					
6. Quality of writing(Organization, Clarity, Accuracy Grammer)	✓				
7. References & Citation(Up-to-date, Appropriate Sufficient)			✓		

This Article is Innovative & Original, No Plagiarism Detected

Future Research Suggestions

This Article can expand further research for MINOR/MAJOR Research Project at UGC



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