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ORIGINAL ARTICLE

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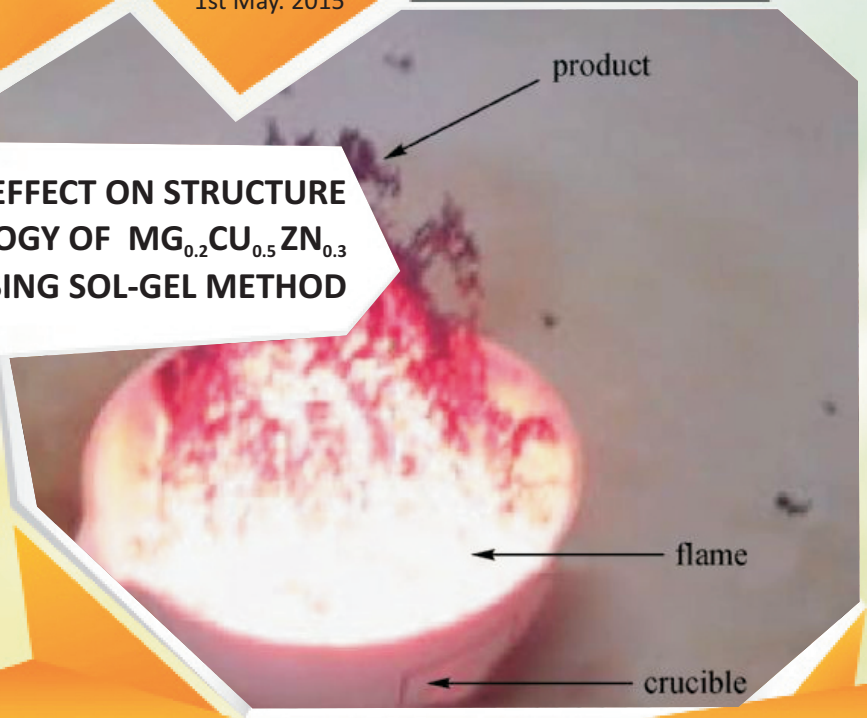
SINTERING EFFECT ON STRUCTURE AND MORPHOLOGY OF $MG_{0.2}CU_{0.5}ZN_{0.3}$ FERRITE USING SOL-GEL METHOD



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M. T. Sonawane

ABSTRACT

Ferrite sample of $Mg_{0.2}Cu_{0.5}Zn_{0.3}$ Fe_2O_4 nanocrystalline powder was synthesized by Sol-gel auto-combustion method. The synthesized powder was sintered at two different temperatures 4000C and 7000C for four hours to obtain two samples. Structural, compositional and phase properties of samples were studied by X-ray diffraction (XRD) technique. The X-ray diffraction study confirmed the formation of single phase cubic spinel structure of samples.

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Introduction

The latest electronic devices such as cellular phones, video cameras, notebook computers, hard and floppy drives etc require chip inductors as important passive surface mount devices (SMD) because of their small dimensions, lightweight and better functions [1, 2].

A Good Introduction : -

Importance of the expected results to the general inqu Extremely briefy depict the exploratory configuration and how it achieved the expressed destinations.

Materials

Must add materials in your article .

A Good Materials : -

Materials may be accounted for in a different passage or else they may be distinguished alongside your systems. Inc or supplies that are not generally found in research centers.

Result

The diffraction peaks give the evidence of the formation of crystalline spinel ferrite phase in the samples. The peak position and relative intensity of all diffraction peaks match well with the previous results of researchers.

A Good Result : -

Results are as per aims and objective and useful to further research .

Conclusion

XRD patterns of samples show the nanocrystalline spinel nature. The average particle size of samples increase with increase in sintering temperature which is supported by SEM micrographs. IR spectra confirmed the formation of single phase ferrite.

A Good Conclusion : -

Thus,the research have wider scope for new academician and research scholars.

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A Good References : -

There are Places where the Author M. T. Sonawane Need to Cite a Reference, but Have Not

SUMMARY OF ARTICLE

No.		Very High	High	Aver-age	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)					

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H. N. Jagtap
Editor-in-Chief

REVIEWER COMMENTS

- This was a superb give an account of extremely intensive examination.
- The writing audit was careful, the approach was carefully exhaustive and fused the utilization of sufficient quantities of tests in dust size examination and blast tests.

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Dr. Ashok Yakkaldevi
Review Editor

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