

# Paper Submission Form - SAIP2025 Proceedings

Sections A, C, D, and E must be completed by all authors (including students) who submit papers. Section B is compulsory for students who submit manuscript(s).

## Section A: Paper Submission Information

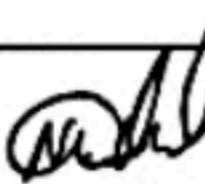
Paper/Abstract ID	087
Paper title	Synthesis, structural, magnetic, and gas sensing properties of rare-earth-substituted cobalt- and zinc-ferrite: A comparative study
Corresponding Author Name & Surname:	Nkanyiso Ndlovu
Corresponding Author Email Address:	216006188@stu.ukzn.ac.za

## Section B: For Students & Supervisors

Supervisor Name & Surname:	Dr. Wendy Mdlalose
Supervisor Email Address:	MdlaloseW@ukzn.ac.za

For this paper, the supervisor must agree/disagree with the following statements.

	Yes	No
1. I am aware that the above-mentioned paper is being submitted for possible publication in the Proceedings of the SAIP Conference. I am satisfied that the presented work is that of the listed authors. I hereby give consent to the submission	✓	
2. I have proof-read the manuscript	✓	
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors	✓	
4. I am familiar with the required manuscript format ("House Style"), and I am satisfied that this manuscript meets the criteria. I am aware that manuscripts not conforming with House Style may be desk rejected	✓	
5. I am satisfied that the scientific content of this manuscript is of sufficient standard for it to be considered for publication in the Proceedings of the South African Institute of Physics Conference Proceedings	✓	

Student Name & Surname: Nkanyiso Ndlovu Signature:  Date: 30/07/25

Supervisor Name & Surname: Wendy Mdlalose Signature:  Date: 31/07/2025

## Section C: Suggested Reviewers

Obtaining the two referee reports necessary for DHET subsidy is an onerous task.

Please provide the names and contact details of three qualified South African and/or international referees. Referees should have a PhD and expertise in the relevant area of Physics. Do not recommend referees who have co-authored a work with any of the authors on the manuscript within the past five (5) years. Manuscripts without three recommended referees may be subject to desk rejection.

Suggested Reviewers in your Research Field (Both local & International)		
	Reviewer Names & Surname	Reviewer's Email Address(es)
Suggested reviewer #1	Prof. S. Moloi	moloisi@uhsa.ac.za
Suggested reviewer #2	Dr. S. Dlamini	Senete.Dlamini@ump.ac.za
Suggested reviewer #3	Prof. T. Msomi	jmmsomi@wsu.ac.za

## Section D: Declaration of Novelty and Use of AI

### How is this submitted manuscript scientifically novel?

The work done revealed scientifically novelty through very little to no articles in literature have been published focusing on the cobalt- and zinc-ferrite substituted by rare-earth ions ( $Gd^{3+}$  and  $Nd^{3+}$ ). The gas sensing results obtained also showed novelty with the high gas sensor response for almost all gases but especially for  $(NH_3)$  ammonia and liquid petroleum gas (LPG) have been reported with this high sensitivity and still maintain a moderately high repeatability.

Please see the Author Guidelines for the AI use policy.

### How was AI used in the generation of this manuscript?

Available artificial intelligence (AI) was used to correct reading grammar, spelling, and scientific message of the manuscript.

## Section E: Plagiarism

	Yes
I am aware that plagiarism detection software may be used on my manuscript.	Yes